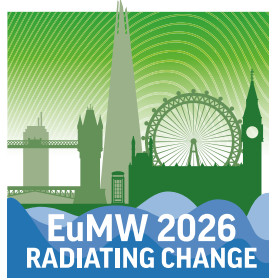


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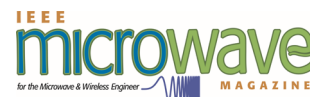


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Welcome to the 29th European Microwave Week

It is our great pleasure to welcome you to the 29th European Microwave Week (EuMW 2026), taking place from the 4th to 9th October 2026 at Excel London, United Kingdom. We are delighted to host the international microwave, RF, wireless and radar community once again in one of Europe's most vibrant and globally connected cities.

The theme of EuMW 2026; "Radiating Change, Microwaves for a Sustainable Tomorrow" reflects the need for us all to embrace sustainable science and engineering. Palpably sustainable materials technologies, techniques, processes and practices will play a critical role in developing next-generation communications, sensing, radar, satellite systems, quantum technologies, autonomous platforms and advanced security applications. EuMW provides a unique environment where academia, industry and government organisations come together to exchange ideas, present breakthroughs and shape future technological directions.

As always, European Microwave Week offers an outstanding platform for scientific exchange, collaboration and innovation. EuMW 2026 features:

- The 56th European Microwave Conference (EuMC)
- The 21st European Microwave Integrated Circuits Conference (EuMIC)
- The 23rd European Radar Conference (EuRAD)

Together, these conferences deliver a comprehensive technical programme including plenary sessions, special and focused sessions, workshops, short courses, industrial presentations and several hundred peer-reviewed scientific papers. Topics span microwave and millimetre-wave engineering, radar and sensing systems, integrated circuits, antennas and propagation, terahertz technologies, packaging, photonics, advanced manufacturing, artificial intelligence for RF systems, and future wireless networks including 6G and beyond, across all of which we aim to promote sustainable developments.

Our programme is further enriched by:

- A major international exhibition featuring leading organisations from across the microwave, RF, wireless and radar sectors showcasing the latest technologies, products and services;
- Thematic forums including the 6G Forum, Automotive Forum and new in 2026 separate Space and Defence Forums, providing dedicated platforms for discussion on emerging challenges, applications and industrial trends;
- A sustainability showcase with special sessions, presentations and displays;
- Dedicated activities supporting students, young professionals and the wider community, including the Tom Brazil Doctoral School of Microwaves, student competitions, career development initiatives, Women in Microwaves activities and networking opportunities throughout the week.

EuMW 2026 returns to London, one of the world's leading centres for science, engineering, business and culture. As a truly international city, London offers visitors an exceptional combination of historic landmarks, world-class museums, diverse cultural experiences and outstanding transport connectivity. Excel London provides the ideal venue for hosting a major international event of this scale, enabling close interaction between conference delegates, exhibitors and the broader microwave community.

We extend our sincere thanks to all authors, reviewers, sponsors, exhibitors, volunteers and members of the organising committee whose dedication and hard work make EuMW 2026 possible. We also thank EuMA and Horizon House for their continued support and commitment to the success of European Microwave Week.

We look forward to greeting you in London and sharing an exciting, inspiring and memorable EuMW 2026 with you.



STEPHEN HARMAN
EuMW General Chair
Thales UK, United Kingdom



JOHN CUNNINGHAM
EuMW General Co-Chair
University of Leeds, United Kingdom

Welcome from the President of the European Microwave Association

Welcome to the 29th European Microwave Week in London!

It is my great pleasure to welcome you to EuMW2026, Europe's premier event dedicated to microwave, RF, wireless and radar technologies. This year we gather in London, a globally connected centre for science, engineering and innovation with a long history of pioneering advances in electromagnetics, communications and radar. With its world-renowned universities, thriving technology sector and excellent international connectivity, London and ExCeL provide an outstanding setting for bringing together academia, industry and government organisations from across the global microwave community.

At EuMA, we are proud to support and promote the microwave and RF community across Europe and beyond. EuMW remains our flagship event for technical excellence, networking and professional development, enabling researchers, engineers, students and industrial leaders to connect and share knowledge.

Our commitment to supporting the next generation of engineers and scientists continues through initiatives such as the EuMA Internship Award programme, which again offers up to 10 awards of €4,500 each to outstanding Master's and PhD students for internships within leading European organisations. Details and applications are on our website, with a November deadline.

EuMA also continues to support students and delegates from NIS countries attending EuMW, through grants and reduced registration with special support for our Ukrainian colleagues.

EuMA offers membership to all working in the field of microwaves. Members enjoy reduced fees for attending EuMW and EuMA-sponsored events. EuMA members have free access to our archive of publications and the online version of the International Journal on Microwave and Wireless Technologies.

EuMA is very active on social media. Follow us @eumassociation on Facebook, LinkedIn, X (previous Twitter), YouTube and Instagram to discover our latest posts. We encourage you to like, share, and engage with our content—we're proud to reach over 7,000 followers. Plus, don't miss our insightful webinars, available live and on-demand via our webinar playlist on YouTube.

This year we introduced an all-year app. I encourage you to download it and use it. The app will give you detailed information on the current and previous EuMW and about EuMA's activities throughout the year. IOS and Android versions are both available.

EuMW2026 continues to benefit from the strong collaboration between EuMA and its technical partners, including the IEEE Societies MTT, AP, AESS, and ED; the GAAS Association; The MIKON

Foundation; EurAAP; APMC; and our valued event organiser, Horizon House/Microwave Journal.

Preparing and hosting EuMW is a major effort, from paper submission and review to on-site organisation. This is accomplished by a team of volunteers year by year. My special thanks go to Stephen HARMAN, the 2026 General Chair, and Operational Officer Dan WILLIAMSON; Treasurer Noushin KARIMIAN; General TPC Chair Xiaobang SHANG; Nick RIDLER and Ian BURNAGE, the EuMC Chair and Co-Chair respectively; Tudor WILLIAMS and Chong LI, the EuMIC Chair and Co-Chair respectively; and David GREIG and Matt RITCHIE, the EuRAD Chair and Co-Chair respectively. Thank you all!

I would also like to express my gratitude to Michel ZOGBOB and the team at Horizon House for their continued professionalism and support in organising both the conference and exhibition.

EuMW2026 promises an exceptional week supported by a world-class exhibition and an exciting programme of activities. We also encourage you to take time to experience London itself – from the historic landmarks of Westminster to the many vibrant districts that make London one of the world's most exciting cities.

We are delighted to welcome you to London for EuMW2026 and wish you an inspiring and enjoyable European Microwave Week.



FRANK VAN DEN BOGAART
President European Microwave
Association



Welcome to the 21st European Microwave Integrated Circuits Conference, EuMIC 2026

Join us at the 21st European Microwave Integrated Circuits Conference (EuMIC) in London, UK, from October 5–6, 2026. As part of European Microwave Week, EuMIC is the premier European forum dedicated to RF, microwave, millimetre-wave and terahertz integrated circuits, systems and enabling technologies. Bringing together industry leaders, researchers, academics and government representatives, the conference provides a unique platform to exchange ideas, explore emerging trends and discover the latest advances shaping the future of high-frequency electronics. With London serving as a global hub for technology, business and innovation, and this year's theme focused on sustainability, the ExCeL Centre offers the ideal setting for collaboration, networking and technical discussion.

The conference showcases recent achievements and emerging innovations across the high-frequency electronics landscape, providing extensive opportunities for scientific exchange and professional interaction. Technical coverage spans devices, fabrication and packaging technologies through to monolithic integrated circuits, system-in-package and system-on-chip solutions, including modelling, simulation, measurement and system-level implementation. EuMIC remains the key venue for both III-V and silicon-based technologies, while also encouraging contributions in nanotechnologies, wide-bandgap devices and microwave photonics.

Emerging applications including 6G and terahertz connectivity, intelligent sensing, connected and autonomous vehicles, non-terrestrial networks, smart cities and smart manufacturing are increasingly reliant on advanced high-frequency technologies. These global megatrends continue to drive innovation across microwave and terahertz electronics, shaping future investment priorities and technology strategies throughout the integrated circuit industry.

The 2026 conference will feature more than 100 peer-reviewed papers presented across up to six parallel oral sessions and two poster sessions during the two-day programme. The opening session will include keynote presentations from Dr Merv Haynes of CML on trends in III-V semiconductor design and Dr Alan Wong of Ensilica on RF/mmWave silicon enabling the SATCOM space race, followed in the evening by a networking get-together sponsored by the GAAS Association. The closing session will feature keynote talks from Prof. Steve Cripps of Cardiff University, titled *Microwave Transformers – A Tale of Different RF Cultures*, and Dr Jan Verspecht of Keysight on innovations in microwave instrumentation. During the closing event, awards will also be presented for Best Paper, two Young Engineer Prizes and the GAAS Association Tom Brazil Fellowship Award (selecting from three finalists). Accepted papers will be published in the IEEE Xplore Digital Library, while selected extended papers will

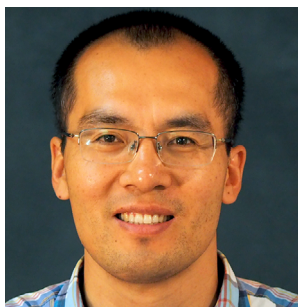
appear in a special issue of the International Journal of Microwave and Wireless Technologies.

The organising committee would also like to thank the Technical Programme Committee members, reviewers and past EuMIC organising teams for their continued support and commitment in helping deliver another outstanding conference programme and maintaining the high technical standards of EuMIC.

If you want to hear about the latest advances in integrated circuit technology and the innovations enabling next-generation applications, join us at EuMIC 2026 in London. We look forward to personally welcoming you to London for what promises to be an outstanding opportunity to network with peers, learn about the latest industry trends and engage with the global microwave integrated circuits community.



TUDOR WILLIAMS
EuMIC Chair
Filtronic, United Kingdom



CHONG LI
EuMIC Co-Chair
University of Glasgow,
United Kingdom



KEVIN MORRIS
EuMIC TPC Chair
University of Leeds, United Kingdom



TOMMASO CAPPELLO
EuMIC TPC Co-Chair
Villanova University, USA

Welcome to the 56th European Microwave Conference, EuMC 2026

The European Microwave Conference (EuMC) is Europe's premier conference dedicated to RF, microwave, millimetre-wave and terahertz science, engineering and technology. The 56th EuMC is taking place in London, UK. This will be the 6th time that London has hosted this prestigious event. In fact, the very first EuMC was held in London, way back in 1969.

The conference is taking place from 6th to 8th October 2026 and is the core component of European Microwave Week. These dates coincide with the dates of a very large microwave trade show and exhibition which is collocated with the conference. The trade show is free to attend, so delegates at EuMC can also spend time visiting exhibits from the world's leading suppliers of microwave products and services.

The conference features around 300 papers delivered in 50 technical sessions (i.e., 47 oral sessions and three poster sessions) throughout the full three days of the event. The conference papers have been subjected to rigorous peer-review and will be published subsequently in the IEEE Xplore digital library. Extended versions of selected papers will also feature in a special issue of the [International Journal of Microwave and Wireless Technologies](#).

The conference papers align with at least one of the EuMC 2026 topics. Most of these topics have featured in previous

editions of EuMC, although new topics, such as Reconfigurable Intelligent Surfaces (RIS), are also being included in this year's conference.

The overarching theme of this year's European Microwave Week (of which EuMC is a part) is "sustainability", and so there are several papers relating to this theme at the conference.

EuMC 2026 also provides many opportunities for networking and interaction with international experts in a wide variety of specialties, attracting delegates with academic as well as industrial backgrounds. In addition to scientific papers from leading academics not only in the form of papers but also in workshops, contributions describing industrial applications are also being featured. These cover fields such as instrumentation, medicine, telecommunications, radio astronomy, space, automotive, defence and security.

The EuMC Opening Session will feature two keynote talks – one, from Stepan Lucyszyn, Imperial College London, entitled "Building-edge Additive Manufacturing Technologies: 3D Printing Landscape for Next Generation Radio Frequency Applications" and one from Sam Brokenshire, Flann Microwave Ltd, entitled "The Current State of the Art in Waveguide Technology and Trends in Application Requirements in the Near to Mid-term".

The EuMC Closing Session will also feature two keynote talks – one, from Tobias Lindstrom, National Physical Laboratory, entitled "The Critical Role of RF and Microwave Engineering in Quantum Technology" and one from Alisa Danilenko, Keysight Technologies, entitled "Development of RF and Microwave Solutions for Quantum Control and Measurement". These talks reflect the increasing role that microwave science and engineering is playing in the emerging area of practical quantum technologies, such as quantum computing and sensing.

Finally, this year's EuMC is being hosted in London – the capital city of the UK. London is famous for its multicultural environment – for its people, cuisine, and entertainment. So, please also use this opportunity to immerse yourself in the daily life of this very cosmopolitan 21st century city. Enjoy London – but first and foremost, enjoy EuMC!



NICK RIDLER

EuMC Chair

National Physical Laboratory,
United Kingdom



IAN BURNAGE

EuMC Co-Chair

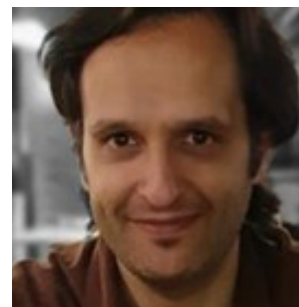
Flann Microwave Ltd,
United Kingdom



JIAFENG ZHOU

EuMC TPC Chair

University of Liverpool,
United Kingdom



ROBERTO GOMEZ-GARCIA

EuMC TPC Co-Chair

University of Alcalá, Spain

Welcome to the 23rd European Radar Conference, EuRAD 2026

Dear colleagues from the international radar community,

On behalf of the organising committee, it is our great pleasure to welcome you to the 23rd European Radar Conference (EuRAD 2026), taking place in London, United Kingdom, from 7–9 October 2026 as part of European Microwave Week 2026.

EuRAD continues to be Europe's premier conference dedicated to radar research, technologies, systems, and applications. The conference brings together researchers, engineers, practitioners, and students from across the world to exchange ideas, present the latest advances, and discuss the future directions of radar and sensing technologies.

The technical programme is organised around four major themes: Radar Phenomenology and Modelling, Radar Technologies, Radar Signal Processing, Algorithms and AI, and Radar Applications. This year's programme reflects the rapidly evolving radar landscape, with contributions spanning phased-array and multifunction radar, passive and multi-static sensing, waveform design, mm-wave and THz systems, cognitive radar, joint sensing and communications, automatic target recognition, and emerging quantum-enabled radar research.

The applications programme highlights the increasing importance of radar across defence and security, autonomous and

automotive systems, industrial monitoring, healthcare and biomedical sensing, environmental monitoring, and space domain awareness.

EuRAD 2026 is proud to host four distinguished keynote speakers:

- Prof. Marco Martorella – University of Birmingham, UK
- André Hanewinkel – Hensoldt, Germany
- Michela Corvino – European Space Agency (ESA)
- Phil Clark – BAE Systems, UK

This year, EuRAD received 209 paper submissions from across the international radar community, demonstrating the continued strength and growing impact of radar research worldwide. The conference programme features more than 100 peer-reviewed papers presented across up to six parallel oral sessions and two poster sessions throughout the three-day programme. Accepted papers will be published in the IEEE Xplore Digital Library, while selected extended papers will be invited for publication in a special issue of the International Journal of Microwave and Wireless Technologies.

Alongside the technical programme, EuRAD 2026 provides excellent opportunities for discussion, collaboration, and networking across academia, industry, and government organisations. We also warmly invite attendees to join the EuRAD social event on Thursday evening at the Crowne Plaza London Docklands,

located adjacent to the ExCeL London exhibition centre, offering an excellent opportunity to continue discussions and strengthen connections within the radar community.

We would like to sincerely thank all authors, reviewers, session chairs, sponsors, exhibitors, and volunteers whose efforts have made EuRAD 2026 possible. We are confident that the conference will be both technically inspiring and professionally rewarding, and we hope you enjoy your time in London.



DAVID GREIG

EuRAD Chair

Leonardo, United Kingdom



MATT RITCHIE

EuRAD Co-Chair

University College London,
United Kingdom



MARINA GASHINOVA

EuRAD TPC Chair

University of Birmingham,
United Kingdom



CARMINE CLEMENTE

EuRAD TPC Co-Chair

University of Strathclyde,
United Kingdom

Welcome from the General TPC Chairs

We are delighted to welcome you once again to European Microwave Week in London. While much has evolved since EuMW 2021, the UK capital remains one of the world's foremost centres for culture, arts, sport, entertainment and innovation. We look forward to hosting you at EuMW 2026 and hope you will not only benefit from our outstanding conference programmes but also take the opportunity to enjoy everything this vibrant city has to offer.

We extend our sincere thanks to the more than 550 expert reviewers who carefully evaluated 839 submitted papers, providing detailed, constructive feedback. Their dedication and expertise have been essential in maintaining the high quality of this year's technical programme.

We also recognise the outstanding efforts of the Technical Programme Committee and the TPC Chairs. This team of over 120 highly experienced experts, working across 33 subcommittees, thoroughly reviewed all submissions and selected the most significant contributions. The final programme reflects an acceptance rate of approximately 65% and comprises around 110 sessions, including focused and special sessions, covering key topics in microwave, RF, wireless and radar technologies.

The technical programme features 472 oral presentations and 80 poster contributions, with each paper

undergoing a rigorous review process that included, on average, nearly seven independent reviews. In addition, several sessions include invited talks from leading industry experts, highlighting the practical relevance and industrial impact of the research presented.

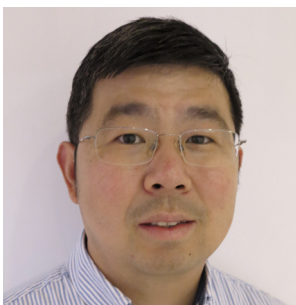
Beyond the core conference sessions, EuMW 2026 offers an extensive programme of workshops, short courses, forums and special sessions, providing valuable opportunities for knowledge exchange, collaboration, networking and professional development. The Defence, Automotive and 6G Forums, together with the European Microwave Exhibition, further reinforce the event's position as Europe's premier gathering for the microwave and RF community.

Our field is dynamic and continuously evolving. This year's programme reflects the most important and rapidly developing themes, including new applications and enabling technologies for high millimetre-wave and low terahertz bands; RF and microwave technologies for quantum applications; advanced manufacturing processes that open new possibilities in component design and system integration; and artificial intelligence (AI), both as a design and fabrication tool and as a transformative paradigm in signal processing. The programme also highlights emerging radar applications across many aspects of modern life, alongside advances in communications systems, including 6G and beyond.

The theme of EuMW 2026, "Microwaves for a Sustainable Tomorrow," emphasises the vital role of microwave, RF, wireless and radar technologies in supporting a more sustainable and connected world. From next-generation communications and sensing to applications in transportation, space, healthcare and energy-efficient systems, our community continues to drive innovations that contribute to technological progress while addressing global sustainability challenges.

We warmly thank all those who have contributed to the success of this year's programme. In particular, we acknowledge the leadership of the TPC Chairs - Kevin Morris and Tommaso Cappello (EuMIC), Jiafeng Zhou and Roberto Gómez-García (EuMC), and Marina Gashinova and Carmine Clemente (EuRAD). Our gratitude also extends to EuMW 2026 General Chair Stephen Harman, Operational Officer Daniel Williamson, and the local organising committee for their dedication. We further thank the EuMW Officers, the EuMA Board of Directors, and the Paper Management Team - Marc van Heijningen, Cristina Andrei and Megha Krishnaji Rao - together with TPC Support Lead Abhijeet Kanitkar, for their excellent coordination throughout the preparation of EuMW 2026.

It is both a pleasure and a privilege to serve as General TPC Chairs for EuMW 2026. We look forward to welcoming you to London.



XIAOBANG SHANG

EuMW General TPC Chair

National Physical Laboratory, United Kingdom



DOMINIQUE SCHREURS

EuMW General TPC Co-Chair

KU Leuven, Belgium

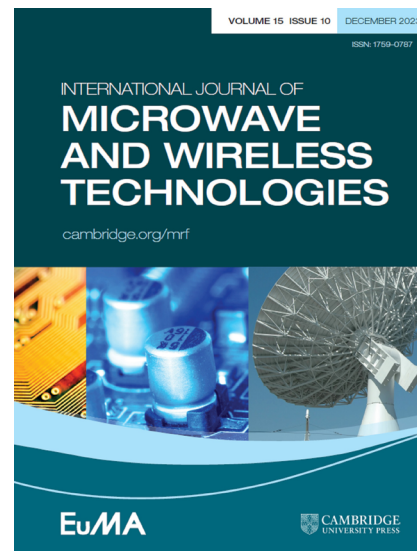
International Journal of Microwave and Wireless Technologies: EuMW2026 Special Issue

The International Journal of Microwave and Wireless Technologies was created in 2009 by the European Microwave Association (EuMA) and Cambridge University Press for the benefit of the microwave research community in Europe and overseas.

The journal is published ten times a year. It allows academic and industrial researchers to promote their work and stay connected with the most recent developments in microwave and RF technology. The journal is referenced in databases such as Scopus and Google Scholar and is indexed in the Thomson Reuters Web of Science. Following the success of previous microwave weeks, the journal will again publish a special issue dedicated to European Microwave Week 2026.

The authors of several highly ranked papers presented at the conferences will be invited to submit an extended version for publication in the journal. The special issue will be guest edited by Jiafeng Zhou, TPC Chair of EuMC 2026, Kevin Morris, TPC Chair of EuMIC 2026, and Marina Gashinova, TPC Chair of EuRAD 2026.

Accepted papers will be published online at <https://www.cambridge.org/core/journals/international-journal-of-microwave-and-wireless-technologies> and can be referenced using their DOI (Digital Object Identifier). Once all submissions are received, the articles will be collected into a dedicated Special Issue.

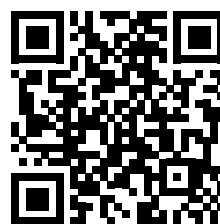
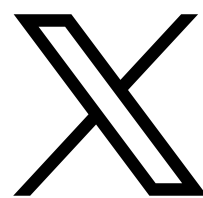
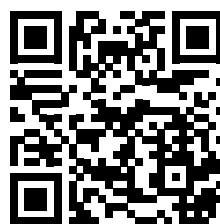
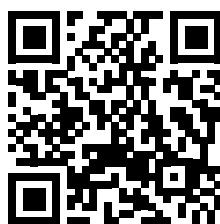
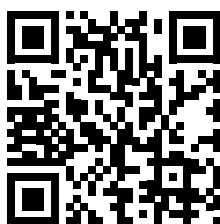


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EuMIC TPC Chair and Co-Chair

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CARMINE CLEMENTE
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EuMW General Chair
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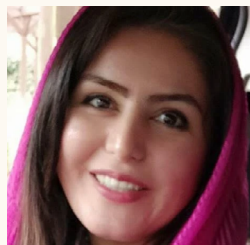
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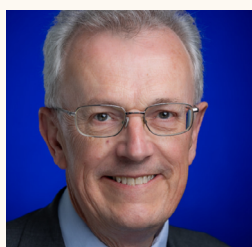
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EuMC Chair
National Physical Lab.
United Kingdom



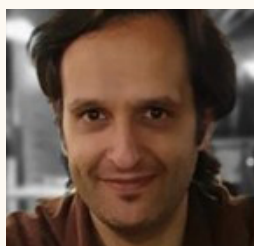
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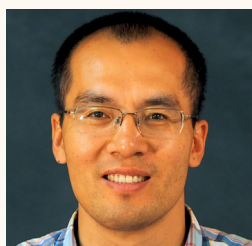
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EuMC TPC Co-Chair
University of Alcalá
Spain



TUDOR WILLIAMS

EuMIC Chair
Filtronic
United Kingdom



CHONG LI

EuMIC Co-Chair & 6G Forum Co-Chair
University of Glasgow
United Kingdom



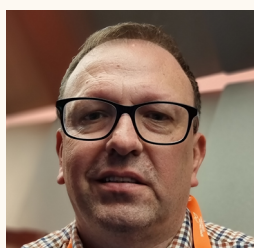
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United Kingdom



TOMMASO CAPPELLO

EuMIC TPC Co-Chair
Villanova University
USA



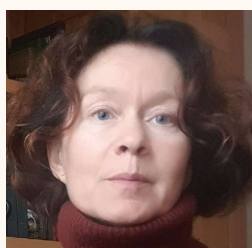
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United Kingdom



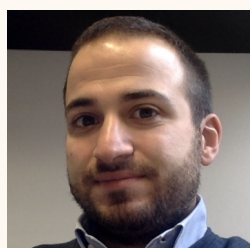
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CARMINE CLEMENTE

EuRAD TPC Co-Chair
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Automotive Forum Chair
Karlsruhe Institute of Technology
Germany



BENJAMIN NUSS

Automotive Forum Co-Chair
Karlsruhe Institute of Technology
Germany



BART SMOLDERS

6G Forum Chair
Eindhoven University of Technology
The Netherlands



VOLKAR ZIEGLER

Defense Forum Chair
Airbus
Germany



PATRICK SCHEELE

Defense Forum Co-Chair
Ferdinand-Braun-Institut gGmbH
Germany



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AMWT Ltd UK
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Workshop & Short courses chair
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Special Session Chair
University of Bristol
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JAMES STEPHENSON

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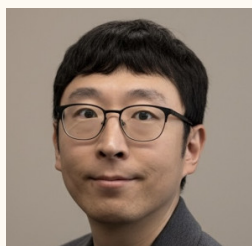
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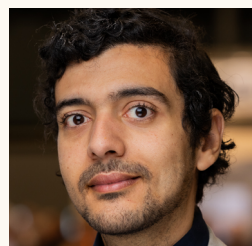
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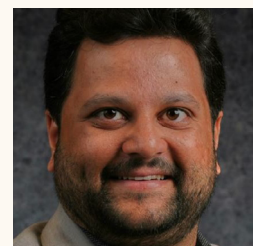
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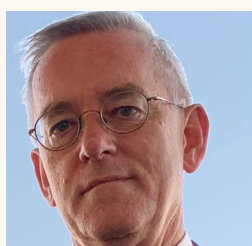
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2025 European Microwave Week in Utrecht Best Paper Prizes: EuMC

CONFERENCE PRIZE

Authors

**J. L. Gonzalez Jimenez, A. Siligaris, A. Hamani, A. Clemente,
F. Foglia Manzillo, C. Dehos, J.-B. Dore, N. Cassiau**
Université Grenoble-Alpes, CEA-Leti, France

Title

A 58 Gb/s D-band NLOS link enabled by active RIS

Sponsors – IMA e.V.

IMA e.V.



YOUNG ENGINEER PRIZE

Authors

B. Tegowski, D. Langer, N.C. Albrecht, A. Kölpin
Institute of High-Frequency Technology, Hamburg University of Technol-
ogy, Germany

Title

Fast Determination of the Monostatic Radar Channel in the Near-Field of
Electrically Large Targets

Sponsors – The Antenna Company



YOUNG ENGINEER PRIZE

Authors

**A. Cahandra Prabhu, J. Grzyb, M. Andree, Z. Cao, H. Rücker,
U.R. Pfeiffer**
IHCT, University of Wuppertal, German

Title

A J-Band Low-Noise Amplifier with 100+ GHz 3-dB Bandwidth in a 130-nm
SiGe BiCMOS Technology

Sponsors – IMEC



2025 European Microwave Week in Utrecht Best Paper Prizes: EuRAD

CONFERENCE PRIZE

Authors

R. Ghasemi, T. Koegel, P. Fenske, D. Gunders-Hunt, M. Vossiek
Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Title

Ultra-Precise PTP Implementation Extended with a Kalman Filter for Wireless Clock Synchronization Enabling Signal Time-of-Flight and Distance Measurements

Sponsors – Thales Nederland

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YOUNG ENGINEER PRIZE

Authors

T. Noegel, M. Reinecke, O. Sura, M. Heidbrink, M. Hoffmann, M Vossiek
Institute of Microwaves and Photonics (LHFT),
Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Title

Automotive SAR for Advanced Road Debris Detection

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YOUNG ENGINEER PRIZE

Authors

M. Pircher, M. Jäger, U. Johannsen
Microwaves and Radar Institute, German Aerospace Center (DLR),
Germany

Title

Influence of Turbulences and Cross-Wind on the Signal Quality in Circular Synthetic Aperture Radar

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2025 European Microwave Week in Utrecht Best Paper Prizes: EuMIC

CONFERENCE PRIZE

Authors

H. Sadkaoui, P. Hillger, J. Grzyb, X. Du, M. Andree, H. Rucker, U. Pfeiffer

University of Wuppertal, Wuppertal, Germany

Title

A 320GHz 32x32 Pixel Near-Field Sensor SoC for Real-Time Imaging in 130-nm SiGe BiCMOS

Sponsors – EHCI



YOUNG ENGINEER PRIZE

Authors

J. Xu, E. Liu, M. Eleraky, T.-Y. Huang, C. Chu, H.Wang

IDEAS, ETH Zurich, Switzerland

Title

An Ultra-Compact Ku-Band Doherty Power Amplifier with a Single-Footprint Triple Two-Turn Asymmetric Combiner for 6G FR3

Sponsors – Huawei



YOUNG ENGINEER PRIZE

Authors

P. Umbach, F. Thome, A. Leuther, R. Quay

Fraunhofer Institute for Applied Solid State Physics (IAF), Freiburg, Germany

Title

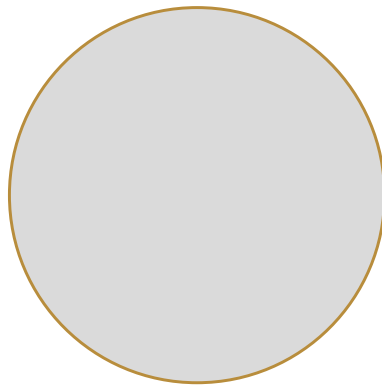
Resistive D-Band Mixers with Monolithic Integrated Broadband IF Balun and LO Amplifier

Sponsors – Huawei



EuMA Roberto Sorrentino Prize

THIS ANNUAL AWARD RECOGNIZES AN OUTSTANDING YOUNG PROFESSIONAL WHO IS A EUMA MEMBER WHO HAS DISTINGUISHED TECHNICAL ACHIEVEMENTS WITHIN THE MICROWAVE FIELDS OF INTEREST



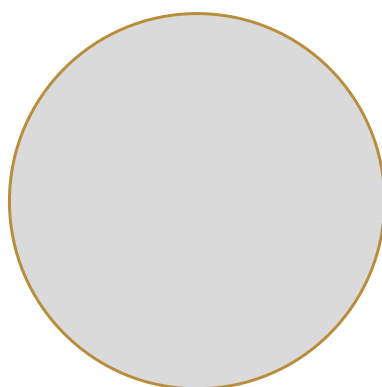
2026'S RECIPIENT: TO BE ANNOUNCED

Watch this space to learn 2026's recipient!

The Roberto Sorrentino Prize, named in his remembrance, has been initiated by Linda Di Carlo Sorrentino in cooperation with RF Microtech, the Italian EM Society (SIEm) and EuMA. It recognizes an outstanding young professional who has distinguished technical achievements (not on a single paper) within the microwave field. This prize focuses on the individual rather than on specific achievements and would preferably be in yearly alternation between university and industry. The annual prize comprises a certificate, a medal and a financial award of € 4,000, contributed by Mrs. Linda Di Carlo Sorrentino, RF Microtech, SIEm, and EuMA.

EuMA Pioneer Award

THE PIONEER AWARD WAS ESTABLISHED TO RECOGNIZE AN INDIVIDUAL “WHO IS RESPONSIBLE FOR A NOTEWORTHY ADVANCE IN THE FIELD OF MICROWAVES WHICH HAS HAD A LASTING AND SIGNIFICANT EFFECT ON THE MICROWAVE COMMUNITY”.

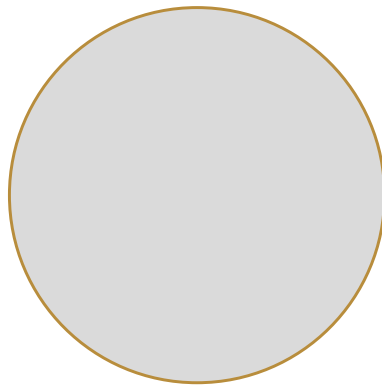


2026 RECIPIENT: TO BE ANNOUNCED

Watch this space to learn more about the 2026's recipient!

EuMA Distinguish Leadership Award

THE DISTINGUISHED LEADERSHIP AWARD RECOGNISES AN INDIVIDUAL WHO HAS DEMONSTRATED OUTSTANDING LEADERSHIP FOR THE BENEFIT OF THE MICROWAVE COMMUNITY AND, IN PARTICULAR, FOR THE TRANSFORMATIVE BENEFIT OF THE EUMA OR THE EUROPEAN MICROWAVE INDUSTRY.



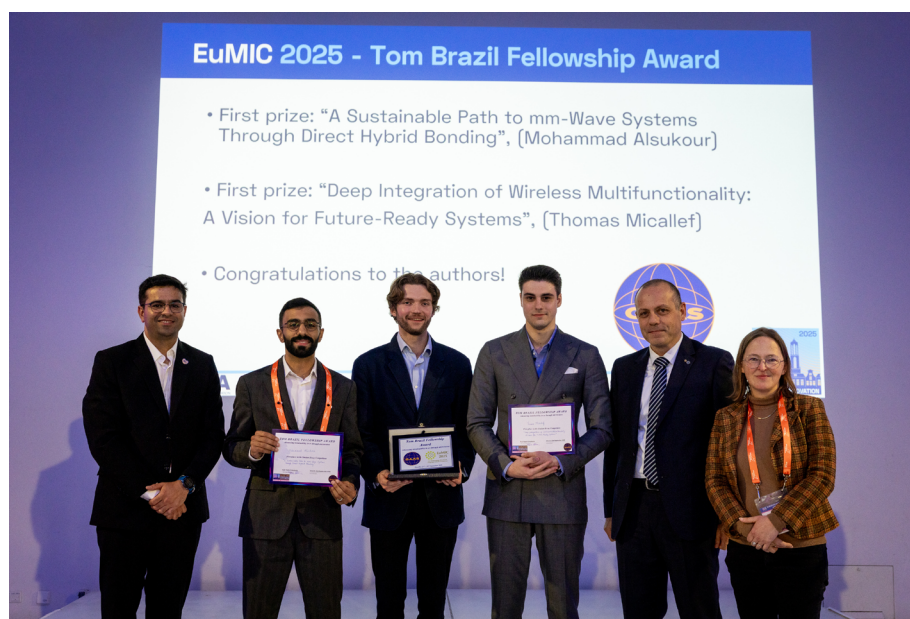
2026 RECIPIENT: TO BE ANNOUNCED

Watch this space to learn more about the 2026's recipient!

Tom Brazil Fellowship Award Student Essay Competition (by the GAAS® Association)

Advancing sustainability in or through microwaves

GAAS ASSOCIATION AND EUMA ARE PROUD TO CONGRATULATE THE WINNERS OF THE TOM BRAZIL FELLOWSHIP AWARD. THEY REPRESENT THE CREATIVITY AND VISION OF AN UPCOMING GENERATION OF RESEARCHERS AND ENGINEERS WHO WANT TO IMPROVE OUR FUTURE.



Authors

Thomas Micallef
Thomas Micallef, Canada

Title

Deep Integration of Wireless
Multifunctionality: A Vision for Future-
Ready Systems

Authors

Mohammad Alsukour
CEA-Leti, France

Title

A Sustainable Path to mm-Wave Systems
Through Direct Hybrid Bonding

Sponsors



International Journal of Microwave and Wireless Technologies: Former Best Paper Prize

THE INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES SELECTS ONE PAPER PER YEAR FOR THE BEST PAPER AWARD OF THE JOURNAL AND ANNOUNCES IT IN THE NEXT YEAR. EUMA GRANTS AN AMOUNT OF 1,000 EURO FOR THIS AWARD. IN THE FOLLOWING, THE LIST OF THE FORMER RECIPIENTS OF THE PRIZES:



2025 RECIPIENT: Tobias T. Braun, Jan Schoepfel, aldo J. Marquez M. and Nils Pohl

2025

Tobias T. Braun, Jan Schoepfel, aldo J. Marquez M. and Nils Pohl, "Overcoming the relative bandwidth limitations of single VCO frequency synthesizers by implementing a novel PLL architecture," International Journal of Microwave and Wireless Technologies. 2024, 16(5):720-729

2024

Petr Kadera, Jesús Sánchez-Pastor, Lisa Schmitt, Martin Schüßler, Rolf Jakoby, Martin Hoffmann, Alejandro Jiménez-Sáez, and Jaroslav Lacik, "Sub-THz Luneburg lens enabled wide-angle frequency-coded identification tag for passive indoor self-localization," International Journal of Microwave and Wireless Technologies. 2023, 15(1), 59-73

2023

Sofian Hamid, Dirk Heberling, Manuela Junghänel, Thomas Preussner, Patrick Grezki, Ludwig Pongratz, Cristian Hördeemann, and Arnold Gillner, "Development of a millimeter-wave transparent antenna inside a headlamp for automotive radar application," International Journal of Microwave and Wireless Technologies. 2022, 14(6), 677-688

2022

Philipp Ritter, "Toward a fully integrated automotive radar system-on-chip in 22 nm FD-SOI CMOS," International Journal of Microwave and Wireless Technologies, 2021, 13(6), 523-531.

2021

Iulia Dan, Guillaume Ducournau, Shintaro Hisatake, Pascal Szriftgiser, Ralf-Peter Braun, and Ingmar Kalfass, "A superheterodyne 300 GHz wireless link for ultrafast terahertz communication systems," International Journal of Microwave and Wireless Technologies, 2020, 12(7), 578-587.

2020

Golzar Alavi, Sefa Özbek, Mahsa Rasteh, Markus Grözing, Manfred Berroth, Jan Hesselbarth, and Joachim N. Burghartz, "Toward a flexible and adaptive wireless hub by embedding power amplifier thinned silicon chip and antenna in a polymer foil," International Journal of Microwave and Wireless Technologies, 2019, 11(5/6), 864-871.

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R Antonio Raffo · Shobha Ram · Rodica Ramer · Satish Ravindran · Elodie Richalot · Jae-Sung Rieh · Eric Rius · Stéphane Rochette · Hendrik Rogier · Luke Rosenberg · Uwe Rosenberg · Djebbi Roua · Chandan Roy · Amelia Rubio Bretones · Mayazzurra Rugiano · Jorge A. Ruiz-Cruz · Pedro Rynkiewicz · Antti Räisänen

S Rola Saad · Martin Salter · Piotr Samczyński · Atsushi Sanada · David A. Sanchez-Hernandez · Philip Sanders · Paul Sangare · Alberto Santarelli · Fabrizio Santi · Prajakta Sathe · Scott Schafer · Patrick Scheele · Johann Christoph Scheytt · Lorenz-Peter Schmidt · Dominique Schreurs · Patrick Schuh · Hermann Schumacher · Daniel Segovia-Vargas · Pascale Sevigny · Xiaobang Shang · Hasan Sharifi · Victor Shatov · Usman Shehryar · Yaochun Shen · Kaustubh Rajesh Shinde · Naoki Shinohara · Uwe Siart · Manuel Sierra Castañer · Alexandre Siligaris · Lorenzo Silvestri · Guendalina Simoncini · Yoke Leen Sit · Anja Skrivervik · Robin Sloan · Souheil Ben Smida · Richard Snyder · Valentyn Solomko · Jacques Sombrin · Nutapong Somjit · Ho-Jin Song · Vito Sorianello · Jakub Sorocki · Domenico Spina · Andreas Springer · Jan Stake · Manoj Stanley · Malcolm Stevens · Almudena Suarez Rodriguez · Noriharu Suematsu · Safumi Suzuki ·

Oleksiy Sydoruk · Sultan Abdul Kader Syed Mohamed · Miguel Sánchez-Soriano

T Alexandru Takacs · Hara Madhav Talasila · Raja Usman Tariq · Jean-Guy Tartarin · Noriaka Tawa · Manos M. Tentzeris · Guilhaume Theis · Fabian Thome · Manfred Thumm · Didier Théron · Jordi Verdú Tirado · Diane Titz · Cristiano Tomassoni · Vittorio Tornielli di Crestvolant · Éric Tournier · Ichihiko Toyoda · Tsung-Ching Tsai · Nikolaos Tsitsas

U Ingrid Ullmann · Mehmet Ünlü

V Valeria Vadalà · Alexander Valavanis · Guido Valerio · Marc Van Heijningen · Frank E. Van Vliet · Gijs Van der Bent · Benjamin Vanhouche · Giorgio Vannini · Krushna Kanth Varikuntla · Claudia Vasanelli · Andriy Vasylyev · Aleksanteri Vattulainen · Serge Verdeyme · Akhilesh Verma · Vojkan Vidojkovic · Dieff Vital · Giorgio Matteo Vitetta · Michael Vogt · Martin Vossiek · Jan Vrba · Photos Vryonides · Tân-Phu Vuong

W Christian Waldschmidt · Guoan Wang · Huei Wang · Yi Wang · Abbas Waseem · Gavin Watkins · Simon Watts · Muh-Dey Wei · Nils Weimann · Matthias Weiss · Mareike Wendelmuth · Andreas Wentzel · Abdulrahman Widaa · Matthias Wietstruck · Tudor Williams · Withawat Withayachumnankul · Steve Hang Wong · Ke Wu

X Pascal Xavier · Kai Xu

Y Felix Yanovsky · Alexander Yarovoy · Xiaochen Yu · Qiaowei Yuan · Sen Yuan

Z Dmitry Zelenchuk · Bangjie Zhang · Jinyao Zhang · Wenzhang Zhang · Xi-Bei Zhao · Yulong Zhao · Han Zhou · Kang Zhou · Anding Zhu · Simin Zhu · Vitaliy Zhurbenko · Thomas Zwick

Travel Information

GETTING TO EXCEL LONDON

Excel London is right in the heart of London's historic Royal Docks, just ten minutes from Canary Wharf and 12 minutes from the City. Excel London can be accessed through a variety of transportation means. More information at [Visiting Excel](#) | [Welcome to Excel London](#).

ADDRESS

Excel London
One Western Gateway
Royal Victoria Dock
London, E16 1XL
United Kingdom

BY PLANE

London is one of the best-connected cities in the world, served by six international airports, with City airport being just a short walk away.

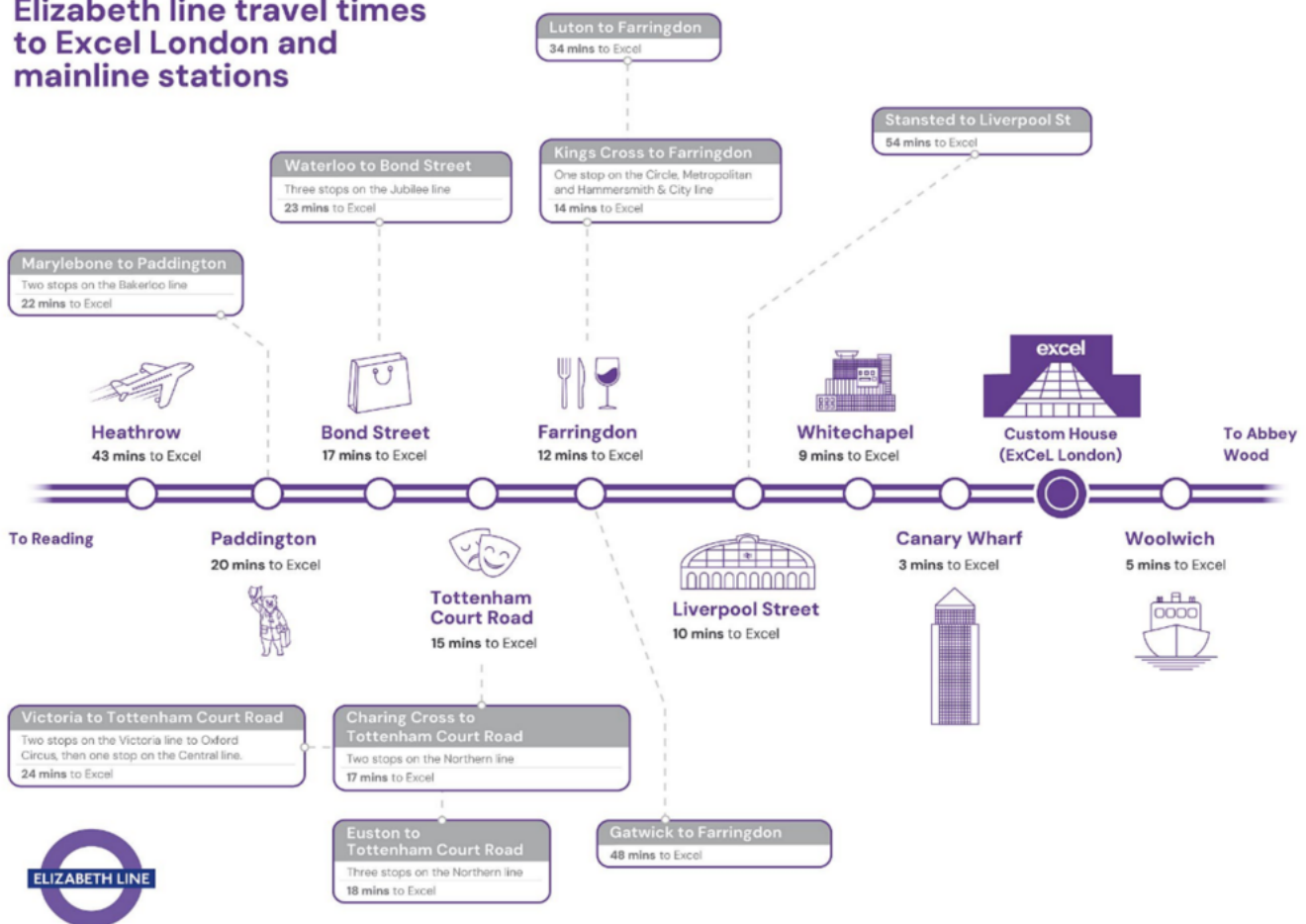


BY TRAIN

St Pancras International railway station connects central London to mainland Europe via Eurostar services to Paris, Brussels and Amsterdam.

London is connected by rail to all major cities across the UK. Excel London is easily reached from London's mainline and Underground rail stations. The venue is served by the Elizabeth line, three DLR stations, several bus routes and the IFS Cloud Cable Car.

Elizabeth line travel times to Excel London and mainline stations



The Elizabeth line and DLR provide the quickest routes to Excel London. Alight at Custom House for the west entrance or Prince Regent for the east entrance to access EuMW 2026 conference centre and exhibition.

London's public transport network is divided into nine travel zones. Visitors are advised to use an Oyster card, Travelcard or contactless payment card for the best value fares. [Find out more about contactless payment](#)

BY CAR

We strongly encourage delegates to use public transport or walk where possible, to help reduce the conference's carbon impact.

If you need to travel by car or van, please use postcode E16 1FR for the car park entrance, or what3words://cheer.events.began

For more information on travel within London, please visit: <https://tfl.gov.uk/>

General information on the EuMW

European Microwave Week 2026 takes place in the vibrant city of London, United Kingdom. Bringing industry and academia together, European Microwave Week 2026 is a SIX-day event, including THREE cutting-edge conferences and ONE exciting trade and technology exhibition featuring leading players from across the globe. EuMW 2026 provides access to the very latest products, research and initiatives in the microwave sector.

It also offers attendees the opportunity for face-to-face discussions with key players from across the microwave, RF, wireless and radar communities.

The 29th European Microwave Week combines:

- Three major conferences
- Workshops and Short Courses, Doctoral and Microwave Schools for students
- Tailored courses and seminars for industrialists, academics and researchers
- Europe's largest RF and Microwave trade exhibition
- Career Platform activities linking young professionals and companies searching for talent

In addition, Exhibitor Workshops and Seminars will be provided by several leading organisations with expertise in Microwave, RF, Wireless and Radar technologies.



Before the conference

CONFERENCES

Choose from three separate but complementary conferences. Spanning the length of the week, starting from Sunday 4th October 2026, the conferences and workshops are scheduled as follows:

- European Microwave Integrated Circuits Conference (EuMIC) – 5–6 October 2026
- European Microwave Conference (EuMC) – 6–8 October 2026
- European Radar Conference (EuRAD) – 7–9 October 2026
- The Automotive Forum (6th October 2026)
- The Defence Forum (7th October 2026)
- The 6G Forum (8th October 2026)
- The Space Forum (8th October 2026)

The conferences encompass a wide range of subject areas including:

- Microwave, Millimetre-wave and Submillimetre-wave Systems
- Antennas and Propagation
- Wireless Technologies and Fronthaul/Backhaul Applications
- Telecommunications (RF, Microwave and Optical)
- Integrated Circuits, Semiconductor Materials and Packaging
- Radar Architectures, Systems and Subsystems
- Sensors and Remote Sensing Applications
- Testing and Measurement Techniques
- Technologies for Space Applications
- Sustainable Engineering

REGISTRATION

Online registration

Online registration opens in June 2026 and remains open up to and during the event.

→ [visit Website](#)

One, two or three conferences?

Delegates can register for one, two or all three of the conferences. Registration at one conference does not allow any access to other conference sessions.

EUMA MEMBERSHIP

EuMA membership can be obtained by selecting the appropriate option during registration for EuMW. Membership is valid for one year from the date the subscription is completed, and the discounted EuMW registration fees apply immediately. The EuMA membership fee is €25 for Professionals and €15 for Students. Members receive full electronic access to the International Journal of Microwave and Wireless Technologies. Please note that the printed version of the Journal is no longer available. EuMA also offers a three-year complimentary membership for individuals residing in NIS countries and selected African countries.

PERSONAL INVITATION

A valid passport will be required for entry into the United Kingdom. Depending on your nationality, you may also require a visa or Electronic Travel Authorisation (ETA). Participants are strongly advised to check the latest UK Government travel and visa requirements well in advance of travel. Participants are encouraged to organise travel documentation at least 3–4 months prior to EuMW 2026.

The organisers will be pleased to send a letter of invitation to exhibitors, conference delegates or speakers requesting it. To request this letter of invitation, please visit <https://www.eumw.eu/general-information/passport-visa>.

HOTEL RESERVATION

A range of hotels are available close to Excel London and throughout the city, suitable for all budgets and travel requirements. Horizon House has teamed up with Connex Hotels and Events, our official hotel booking supplier, to offer you the ability to book your accommodation for EuMW at the most competitive rates available. It is very easy to make an immediate hotel booking.

Simply visit their booking page <http://www.connexhotelsandevents.com/eumw.html> and make your booking, or email sally@connexhotelsandevents.com. You will find a wide range of accommodation to suit every budget. Alternatively, see the hotel booking pages within this programme.

INSURANCE

It is highly recommended that all participants carry appropriate travel and health insurance, as the organisers cannot accept liability for accidents or injuries occurring during travel to or participation in the event.

Participants should also ensure that personal belongings are adequately insured against loss, theft or damage during European Microwave Week 2026.

During the Conference

BADGES & DELEGATE BAG

Online registrants will automatically receive their badge confirmation and registration receipt by email. Delegates who have pre-registered are requested to bring their registration confirmation to the conference, where badges can be printed onsite using the Fast Track registration facilities.

Once badges have been collected, delegates may also collect their conference bags. Conference proceedings and associated materials will be provided electronically.

The registration area will be located in Halls 22 and 23 at ExCeL London, with access via the N11 entrance, and will be clearly signposted throughout the venue. Delegates who have not pre-registered will be able to register onsite using the self-service registration terminals located within the registration area. Payment can be made immediately using credit or debit cards at the card readers attached to the terminals.

Alternatively, payment can be made at the Cashier Desk if a printed receipt is required. If you have any questions regarding registration procedures or payment, please contact eumweek@mcon-mannheim.de.

ELECTRICITY

Electricity is supplied at 230V, 50 Hz.

CREDIT CARDS

All major hotels and most restaurants and shops will accept credit cards. It is advisable to carry other identification as well. Visa and MasterCard are the most widely accepted cards.

REGISTRATION

On-site registration

During the event, you can also register onsite in Hall 22–23, with access via the N11 entrance from Saturday 3rd October 2026 (16:00–19:00) and from 08:00 each morning from Sunday 4th to Friday 9th October 2026.

ON-SITE INFORMATION

The conferences will be held in different rooms over the conference dates. Please refer to the [Conference Matrix at the back of this booklet](#) for a detailed overview.

PROCEEDINGS

All papers published for presentation at the conferences will be made available electronically. To reduce environmental impact, printed proceedings and workshop notes will not be distributed.

Workshop and Short Course materials will be made available electronically to registered participants.

EXHIBITION HOURS

The exhibition area will be located in Halls 19–23, with access via the N11 entrance at the east end of Excel London, as shown on the floor plan in this booklet. Registered delegates will have access to the exhibition throughout the event.

The exhibition opening hours are:

- Tuesday 6th October 09:30–18:00 (followed by the Welcome Reception)
- Wednesday 7th October 09:30–17:30
- Thursday 8th October 09:30–16:30

Please refer to the Exhibition section of this Programme Book and visit the link on EuMW 2026 website for the latest exhibitor listings.

SOCIAL EVENTS & PARTNER PROGRAMME

Full details of social events, networking receptions, partner activities and conference dinners taking place during EuMW 2026 can be found in the [Social Events & Partner Programme](#) section of this Programme Book.

SHOPPING & SIGHTSEEING

London is one of the world's leading cultural and historical destinations, offering visitors an exceptional mix of heritage, architecture, entertainment and modern city life. From royal palaces and historic landmarks to world-renowned museums, theatres, galleries and markets, there is something to explore in every part of the city.

Visitors may wish to discover famous attractions such as Buckingham Palace, the Tower of London, the Houses of Parliament and Big Ben, the British Museum, the museums of South Kensington, the West End theatre district, and the historic maritime area of Greenwich, home to the Royal Observatory and the Prime Meridian.

The Excel London venue is also located close to Canary Wharf, Greenwich and the River Thames, offering excellent opportunities for dining, sightseeing and entertainment. For information on top attractions, tours and ideas for your stay in London, please visit www.visitlondon.com.

After the conference

EUMA KNOWLEDGE CENTRE

The EuMA Knowledge Centre contains over 20,000 of papers published under the EuMA umbrella. Full-text access is available to EuMA members, providing a valuable resource for the microwave engineering community.

WI-FI

Wifi is available in the exhibition hall and conference area. Login details can be found within your delegate bag.

Hotel Booking Form

Rooms are held on a guaranteed basis. For this reason, you are asked to supply a credit card number and full company details. If your travel plans change and you wish to cancel your accommodation, please contact Sally Garland on +44 (0)7775 744193 or email sally@connexhotelsandevents.com to avoid any non-arrival or cancellation charges, as each hotel has a different cancellation policy, full cancellation details will be clearly marked on every booking confirmation. Prepay rates are non-refundable and non-cancelable.

FOR MORE HOTEL OPTIONS AND TO RESERVE YOUR ROOM ONLINE VISIT

<http://www.connexhotelsandevents.com/eumw.html>

Or complete the booking form below and email to sally@connexhotelsandevents.com

Contact Name

Company

Address

City

Post Code

Telephone

Fax

Email

Date of Arrival

Date of Departure

Number of rooms required

Single Room(s)

Twin Room(s)

Double Room(s)

First Choice Hotel

Second Choice Hotel

Guest Names

In order to guarantee the accommodation, please provide us with your credit card details:

Credit Card Number

Name on Card

Expiry Date

I authorise that any no show or late cancellation charges, as stipulated in the Connex booking confirmation will be charged to this credit card.

Signed

Date



Tel: +44 (0)7775 744193
Email: sally@connexhotelsandevents.com

HOTEL	TO EuMW	RATES FROM*		
ALOFT LONDON HOTEL One Eastern Gateway, Royal Victoria Dock, London E16 1FR	1 minute walk	Flexible	£564.00	RO
TRAVELODGE LONDON EXCEL 1016 Dockside Road, London E16 2FQ	10 minute walk	Prepay	£140.00	RO
TRAVELODGE LONDON CITY AIRPORT Hartmann Road, Silvertown, London E16 2BZ	10 minute walk	Prepay	£140.00	RO
HOLIDAY INN EXPRESS LONDON EXCEL 1018 Dockside Road, London E16 2FQ	5 minute walk	Prepay	£239.00	B&B
DOUBLETREE BY HILTON LONDON EXCEL 2 Festoon Way, Royal Victoria Dock, London E16 1RH	6 minute walk	Prepay	£335.00	B&B
HAMPTON BY HILTON LONDON DOCKLANDS Dockside Road, London E16 2FQ	5 minute walk	Prepay	£279.00	B&B
IBIS LONDON EXCEL DOCKLANDS 9 Western Gateway, Royal Victoria Dock, London E16 1AB	15 minute walk	Prepay	£250.00	B&B
MOXY LONDON EXCEL 1014 Dockside Road, London E16 2FQ	5 minute walk	Prepay	£265.00	B&B
COURTYARD BY MARRIOTT LONDON CITY AIRPORT 10 Connaught Road, Silvertown, London E16 2AE	15 minute walk	Prepay	£210.00	B&B
LONDON CITY AIRPORT HOTEL 74 Albert Road, Silvertown, London E16 2DY	15 minute walk	Flexible	£180.00	RO

NOTES

Prepay: Room rate will be charged either at the time of booking or set period prior to arrival to the credit card used to guarantee the reservation, after this the room is non-refundable.

RO: Room rate does not include breakfast; however, breakfast is available at the hotel at an extra cost

Flexible: Room can be cancelled or amended up until a few days before arrival, individual policy will be stated on the booking confirmation

B&B: Room rate includes breakfast.

All rates quoted are based on single occupancy and include VAT at the current rate.

INTERNSHIP AWARD

RESEARCH + INDUSTRY

KICK-START YOUR MICROWAVE CAREER!

EARN

4500 €

This November 2026, the EuMA Innovation Team is launching the ninth edition of the **EuMA Internship Award**. Every year up to **ten awards of 4500€** each will be given to selected **Master** and **PhD students** to spend a period of at least **3 months abroad** in one of the **leading European Microwave Industries, Universities, and Research Institutes** supporting this initiative.

In addition to promote the mobility of students that would like to work in the microwave field across European Institutions, the award will also attract new talents to the hosting organizations and will help creating a larger and stronger community of microwave young professionals.

Master's & PhD students in Engineering, Computer Science, Mathematics or Physics are eligible to apply. **Scan the QR code** to explore full award details and access the application link.

WHO

PhD and Master students with a background in Engineering, Computer Science, Mathematics or Physics

WHAT

Internship abroad of at least 3 Months within 1 year from acceptance notification

WHERE

In leading **European Microwave Industries, Universities and Research Institutes**

WHEN

Submission deadline

28.11.2026



APPLICATION PROCEDURE

- I. Choose your host & **submit the online form** - by 28.11.2026
- II. Hear from EuMA with **pre-acceptance** - 13.1.2027
- III. **Set up an interview** with your host - by 13.4.2027
- IV. Receive your **final acceptance notice** - by 30.4.2027

CONTACT & DETAILS



Web:
www.eumwa.org

Email:
internships@eumwa.org

PROMOTING EUROPEAN
MICROWAVES

EuMA
EUROPEAN MICROWAVE ASSOCIATION

> Innovation **TEAM**

Welcome to London!

A City of Heritage and Global Innovation

London is a place where nearly two millennia of history seamlessly blend with a pioneering present. The city is home to world-class museums, West End theatres, and cultural events that make it a uniquely lively and inspiring destination. A walk through the historic streets of Westminster or the vibrant South Bank immediately reveals the timeless charm that sets London apart. Yet, London offers more than just urban energy; its expansive Royal Parks, tranquil commons, and historic riverside paths provide a welcome contrast to the bustling city centre.

Capital of Science and Sustainability

The London region stands at the forefront of global innovation in science, engineering, and technology. World-leading universities, forward-thinking enterprises, and public institutions collaborate closely to develop cutting-edge solutions that enhance economic, social, and environmental well-being. The city's core focus is on creating a smarter, greener infrastructure that supports a sustainable way of living. In London, sustainability is a driving necessity, prioritising urban biodiversity, carbon reduction, and climate-conscious choices. Through this spirit of collaboration, London continues to drive progress toward a healthier and more interconnected global society.

Discover London. Where heritage and cutting-edge innovation meet.

ELIZABETH TOWER (BIG BEN)



As one of the world's most recognisable landmarks, the Elizabeth Tower is not only a striking feature of the London skyline—it's a symbol of Britain's rich history and cultural heritage. Though you cannot easily climb its heights without prior arrangements, standing before it rewards you with a breathtaking sense of architectural grandeur. From Westminster Bridge, take in the stunning views of the historic Palace of Westminster, the winding River Thames, and the lively surrounding squares. On a clear day, the view across the river captured from the South Bank is truly unforgettable. Uncover the fascinating history of this neo-Gothic masterpiece with an expert guide or through local historical walks. Learn about its complex mechanical design, the legends woven into its past, and its central role in shaping London's modern identity.

→ [visit Website](#)

THE NATURAL HISTORY MUSEUM



Step into the Natural History Museum and be transported through billions of years of our planet's history. Nestled in Alfred Waterhouse's magnificent Romanesque Revival building in South Kensington since 1881, this iconic institution offers a captivating journey through the natural world. Wander through the awe-inspiring Hintze Hall, beneath the spectacular suspended skeleton of a blue whale. Discover world-renowned collections spanning palaeontology, mineralogy, and zoology, including the legendary dinosaur galleries and rare treasures from the Vault. Marvel at the intricate terracotta carvings depicting flora and fauna across the architecture, and behold historic specimens collected by Charles Darwin himself, bridging the gap between historical exploration and modern scientific research.

→ [visit Website](#)

MORE ...

If you would like more details and costs of the attractions or tours that are not linked directly, please contact Sally Garland at sally@connexhotelsandevents.com.

ST PAUL'S CATHEDRAL



Built as an architectural triumph for the capital and designed by Sir Christopher Wren, St Paul's Cathedral is one of London's most iconic landmarks. With its magnificent English Baroque architecture and grand dome, the cathedral's interior leaves a lasting impression on all who enter. Whether you join a guided tour to explore its fascinating engineering history, climb to the Stone and Golden Galleries for panoramic city views, or simply step inside for a moment of peace and reflection, St Paul's welcomes visitors daily.

→ [visit Website](#)

DISCOVER THE ROYAL BOROUGH OF GREENWICH



Step back in time and explore the charming maritime district of Greenwich with an expert guide. Wander through its historic streets, pass through the iconic Old Royal Naval College—a masterpiece of Baroque design—and admire the remarkable Cutty Sark, the world's last surviving tea clipper. Your journey continues at the Royal Observatory, the birthplace of modern astronomy and global timekeeping. Here, you'll discover the permanent exhibitions detailing the quest for longitude and stand directly on the world-famous Prime Meridian line. After the tour, take some time to explore Greenwich's vibrant covered market and cozy riverside pubs at your own pace. When you're ready, hop on a river boat back to central London—a scenic 30-minute cruise offering spectacular views of Tower Bridge and the city skyline.

→ [visit Website](#)

HAMPTON COURT PALACE

Just outside central London, you'll



find one of the most magnificent and historically significant royal estates in the UK, standing proudly among Europe's finest palaces. A visit to Hampton Court transports you back to its glamorous and dramatic past, when it served as the luxurious

playground for King Henry VIII and the Tudor elite. Step inside and experience the extraordinary opulence enjoyed by successive monarchs, surrounded by priceless tapestries, royal art collections, and centuries of political intrigue. With its majestic red-brick courtyards, grand Tudor kitchens, and elegant Baroque facades, the palace embodies the perfect vision of royal history. Rising from lush parklands, it is framed by world-famous hedge mazes, historic formal gardens, and serene riverside views—a truly enchanting sight.

→ [visit Website](#)

THE DESIGN MUSEUM



In 1989, London established a dedicated space for contemporary ingenuity, later relocating to a spectacular mid-century landmark in Kensington. It stands as a premier global institution built entirely according to the principles of cutting-edge innovation and modern design. London is internationally known as a creative capital where world-class designers and engineers have lived and worked for centuries.

→ [visit Website](#)

BOROUGH MARKET



Immerse yourself in British culinary heritage through an immersive sensory experience at Borough Market. This historic centre of taste and flavour is the place where exceptional produce, artisanal craftsmanship, and global street food come together. Learn, watch, taste, and more! A visit to London's oldest food market is the closest you will get to the heart of the capital's thriving, diverse gastronomic culture.

→ [visit Website](#)

THE SCIENCE MUSEUM



Step into the Science Museum in South Kensington and be transported through centuries of human ingenuity and technological triumph. Nestled in London's premier cultural quarter since its founding, this world-renowned institution offers a captivating journey through scientific history. Wander through spectacular, interactive galleries surrounding historic engineering milestones. Discover iconic steam engines that powered the Industrial Revolution, early computing marvels, and pioneering aerospace designs. Marvel at the deep connections between fundamental physics and modern engineering, and behold historic instruments that whisper tales of bygone eras of discovery.

→ [visit Website](#)

Social Events

Welcome Reception

Tuesday 6th October 2026
18:30 – 21:30

Location: Excel London, Royal Victoria Dock,
1 Western Gateway, London E16 1X.

Cost: Free to conference delegates & invited exhibitors.

All registered conference delegates, as well as invited representatives from companies participating in the exhibition, are invited to the EuMW 2026 Welcome Reception on Tuesday evening at the Excel London adjacent to the exhibition hall. Delegates will need to bring their badge and exhibitors their invite along with them to gain entrance. The evening will begin with drinks, followed by the General Chairs' handover from EuMW2026, London, to EuMW2027, Milan, as well as an address from the Platinum Sponsor, Keysight Technologies, marking their 25th year of support to EuMW.



EuMIC Get-Together

Monday 5th October 2026
19:00 – 22:00

Location: Galyons Royal Docks, 2 Basin Approach,
London E16 2QS England

Cost: Free to EuMIC delegates, get your ticket at the
EuMW Registration Desk

Sponsor: GAAS® Association.

Following the tradition of the European Microwave Integrated Circuits Conference, delegates are invited to enjoy their Monday evening socialising in the 1880s Victorian charm of the "Galyons Royal Docks" public house which is adjacent to Galyons Reach on the Thames just a short distance from Excel London.



EuMW Delegates Lunch

Monday 5th –
Friday 9th October 2026
12:15 – 14:15

Location: Hall 17 & 18, Access via entrance N11
Excel London

Cost: Free to EuMW delegates, forums, and WS/
SC registered attendees.

Enjoy the daily lunches at the conference!
During exhibitions days (Tuesday-Thursday) dessert and coffee will be served in the exhibition hall.



Automotive Forum Networking Dinner

Tuesday 6th October 2026
19:00 – 22:00

Location: Bōkan 39. Floor 37 – 39, 40 Marsh Wall London E14 9TP

Cost: Free to Automotive Forum registered delegates.

Attendees of the Automotive Forum are invited to Bōkan 39 for food and drinks at this bar and rooftop terrace with magnificent views across London in the evening after the Forum.

Women-in-Microwaves Excursion

Tuesday 6th October 2026
14:30 – 18:00

Location: National Maritime Museum, Romney Rd, London
SE10 9NF

Cost: Free for EuMW delegates, please pre-register by sending
an email to wim.eumw2026@eumwa.org.

The Women in Microwaves (WiM) event, sponsored by IEEE MTT-S, continues its long-standing tradition at European Microwave Week and welcomes both women and men to participate. This year's event will include an excursion to the National Maritime Museum in historic Greenwich, offering attendees an opportunity to network in an informal setting while exploring one of the world's leading maritime museums.



Defence Forum Networking Dinner

Wednesday 7th October 2026
18:30 – 22:00

Location: [Sunborn yacht](#), Royal Victoria Dock,
London, E16 1AA, UK

Cost: Free to Defence Forum registered delegates.

Following the Defence Forum, participants are invited to an evening dinner event socialising in Sundown bar on the Sunborn Yacht located next to the Excel London, no transport needed.

EuMW 2026 Gala Event

Wednesday 7th October 2026
19:00 – 23:00

Location: [London Museum Docklands](#); No. 1 Warehouse West India Quay; London E14 4AL

Cost: € 60 (get your ticket at registration)

Immerse yourself in 400 years of docklands history at the London Museum Docklands in West India Quay, London, to discover the history of the River Thames, the growth of the Port of London and more. Join us for an evening event, including dinner, with full rein to explore the whole Museum enabling lively and friendly interaction between as many as possible of the week's participants against this magnificent backdrop.



Radar Interchange

Thursday 8th October 2026
19:00 – 22:00

Location: [Fremantle Bar & Kitchen](#) Royal Victoria Dock, London, E16 1AL

Cost: Free to EuRAD delegates.

Participants of EuRAD are invited to a social event at a venue just a short walk from the Excel, at which food and drinks can be enjoyed whilst networking and spending time in an relaxed and comfortable environment.



6G Forum Networking Dinner

Thursday 8th October 2026
19:00 – 22:00

Location: [Bonnane Restaurant](#), Unit G7 Capital East, 17 Western Gateway, London, E16 1AQ

Cost: Free to 6G Forum registered delegates.

Join us for this unique event, which includes a welcome reception and a seated dinner. You will have plenty of time to network and discuss 6G Forum topics with other attendees in an open setting.

Workshops and Short Courses

Despite the organiser's best efforts to ensure the availability of all listed workshops and short courses, the list below may be subject to change. Also workshop numbering is subject to change. Please refer to www.eumw.eu at the time of registration for final workshop availability and numbering.

Code	Time	Conf.	Title
Sunday 4 October 2026			
SS-01	Half-day	EuMC	Challenges and Payoffs in Next-Generation SATCOM: Multi-Band, Multi-Orbit, Multi-Constellation Ground Terminals
SS-02	Full day	EuMIC	Fundamentals of Microwave PA Design
WS-01	Full day	EuMC	Additive Manufacturing of Microwave Components and Systems
WS-02	Full day	EuMC	Accurate Signals, Linear Amplifiers: Measurement Techniques from RF to Sub-THz
WS-03	Full day	EuMC	Advances in microwave to THz biomedical sensing and imaging: application to skin and breast cancer
WS-04	Full day	EuMC	Antenna Technologies for Non-Terrestrial Networks and SATCOM Terminals
WS-05	Full day	EuMC	Current Trends in MMW and THz components
WS-06	Full day	EuMC	Advanced power sensing for frequencies above 140GHz
WS-07	Full day	EuMC	Advances in cryogenic microwave design and measurement techniques of superconducting and spin qubits
WS-08	Full day	EuMC	Advances in AI-Driven Microwave Design: From devices up to system-level
WS-09	Full day	EuMC/EuMIC	Advanced IC Design for mm-Wave and Beyond
WS-10	Full day	EuMC/EuMIC	Exploring the Innovative Technologies and Circuits Driving the Transition to 6G
WS-11	Half-day	EuMC	Emerging components for sub-terahertz 6G applications
Monday 5 October 2026			
SM-01	Half-day	EuMC	Modern SatCom Waveforms and Payload Performance: Linearity, PAPR, Spectrum Compliance, and Advanced Signal Analysis
SM-02	Half-day	EuMC	Harnessing Phase Information to Improve RF Measurements
WM-01	Full day	EuMC	On-Wafer Microwave Measurement Techniques for 6G and beyond
WM-02	Half-day	EuMC	Open-source Toolchain in RF and Digital Design
WM-03	Full day	EuMC	Photonic Technologies and Systems for RF Applications
WM-04	Half-day	EuMC	Old Dog New Tricks: Analog Linearization of RF/Microwave Power Amplifiers for Efficient and Wideband Transmitters
WM-05	Half-day	EuMC/EuMIC	Embedding Sustainability into Electronics: A Workshop for Circuit Designers on Quantification, Implementation, and Future Technologies
WM-06	Full day	EuMC/EuMIC	Enabling Ultra-Low Noise RF Systems: Technology, Materials and Metrology
WM-07	Full day	EuMC/EuMIC	Is RF GaN-on-Si ready for prime time?
WM-08	Half-day	EuMC/EuMIC/ EuRAD	Reproducible RF & Radar Research with Open-Source Software, Testbeds, and Datasets

Code	Time	Conf.	Title
Thursday 8 October 2026			
STh-01	Half-day	EuRAD	Brief INCOMPLETE History of Radar
WTh-01	Full day	EuMC/EuMIC/ EuRAD	Active Phase Arrays: Bridging Design and Measurement for Young and Industry Professionals
Friday 9 October 2026			
SF-01	Half-day	EuRAD	Integrated Sensing and Communications: Fundamentals, State-of-the-Art and the Road Ahead
SF-02	Half-day	EuRAD	Digital Twins for Radar Systems: Modeling, Simulation, and AI Applications
SF-03	Half-day	EuRAD	Beyond Vision: 4D Radar and Sensor Fusion AI for Robust Perception
WF-01	Full day	EuRAD	Radar Research Trends for Mobility: Automotive and Beyond
WF-02	Full day	EuRAD	Distributed/Multistatic radar principles and practice
WF-03	Half-day	EuRAD	Remote Sensing for Medical Applications
WF-04	Half-day	EuRAD	Radar Technologies for Space Domain Awareness (SDA)

Registration Information

CONFERENCE REGISTRATION DETAILS

Join the global microwave and RF community at EuMW 2026. Register today and be part of the conversation shaping the future of our industry. For pricing, please see the following page.

ONLINE REGISTRATION

- All online registrations should be made at www.eumw.eu
- Registrations completed up to and including 4th September 2026 will be charged at the 'Advance Discounted Rate' and those from 5th September 2026 will be charged at the 'Standard Rate'.
- Online registration is open from mid June 2026 up to and during the event until 9th October 2025..

ONSITE REGISTRATION

Onsite registration is available during the following timeslots:

- Saturday 3 October 2026 (16:00 – 19:00)
- Sunday 4 – Thursday 8 October 2026 (08:00 – 17:00)
- Friday 9 October 2026 (08:00 – 10:00)

Onsite registration will be charged at the Standard Rates.

HOW TO REGISTER

If you have any questions regarding registration procedures and payment, please email:

- Conference Registration questions: eumweek@mcon-mannheim.de
- Exhibition Registration questions: exhibitionreg@eumweek.com

REGISTER ONLINE AT WWW.EUMW.EU

- Delegates can register for one, two or all three of the conferences.
- Discounts will be given to those registering for two or more conferences.
- Payment can be made online using Amex, Visa, Mastercard or Bank Transfer.
- Registrants paying by Credit Card will be sent an automatic email confirmation, with a receipt and badge barcode.
- Registrants choosing to pay by Bank Transfer will receive their confirmation, but their receipt and badge barcode will be sent only once payment has been received and cleared by Horizon House.
- Bring your receipt, barcode and photo ID with you to the event.
- Go to the Fast Track Check In Desk and print out your badge.

ONSITE REGISTRATION

- The registration area will be as signposted.
- There will be Self Service terminals in the registration area where delegates can enter their details and pay immediately by swiping their credit cards through the readers attached to the terminals.
- Delegates can also choose to 'Pay at Cashier' and then proceed to the Cashier Point and pay using credit cards. Receipts will be given accordingly.

Please note: NO badges will be mailed out prior to the event.



For any questions,
please email:
eumweek@mcon-mannheim.de
(conference) or
exhibitionreg@eumweek.com
(exhibition)

Registration Fees

Get the most out of this year's Microwave Week with a Full Week ticket. Combine all three conferences with access to the Defence Forum and the 6G Forum (the Automotive Forum and the Schools are not included) as well as all the Workshops or Short Courses.

Registration at one conference does not allow access to the sessions of the other conferences.

The fees shown below are invoiced in the name and on behalf of the European Microwave Association. All payments must be in € Euros – cards will be debited in € Euros.

Lunches are included with all conference/forum and workshop registrations:

- **Sunday: lunch boxes provided to delegates**
- **Monday – Friday: delegates receive a seated 3 course lunch**

Reduced rates are offered if you have society membership to any of the following: EuMA, GAAS*, IET or IEEE. Reduced rates for the conferences are also offered if you are a Student/Senior (Full-time students 30 years or younger and Seniors 65 or older as of as of 9th October 2026).

One can apply for EuMA membership by ticking the appropriate box during registration for EuMW. Membership is valid for one year, starting when the subscription is completed. The discount for the EuMW fees applies immediately.

Members have full e-access to the International Journal of Microwave and Wireless Technologies. The printed version of the journal is no longer available.

EUMA KNOWLEDGE CENTRE

The EuMA website has its Knowledge Centre which presently contains over 24,000 papers published under the EuMA umbrella. Full texts are available to EuMA members only, who can make as many copies as they wish, at no extra-cost.



**BECOME
A MEMBER –
NOW!**

**EuMA membership fees:
Professional € 25 / year,
Student € 15 / year.**

Conferences

	ADVANCE DISCOUNTED RATE (From now up to & including 4 September 2026)				STANDARD RATE (From 5 September 2026 & Onsite)			
	Society Member⁺ Standard	Society Member⁺ Student/Sr.	Non-Member Standard	Non-Member Student/Sr.	Society Member⁺ Standard	Society Member⁺ Student/Sr.	Non-Member Standard	Non-Member Student/Sr.
1 Conference								
EuMC	€ 750	€ 230	€ 1,040	€ 320	€ 1,040	€ 320	€ 1,460	€ 450
EuMIC	€ 570	€ 190	€ 790	€ 260	€ 790	€ 260	€ 1,110	€ 370
EuRAD	€ 570	€ 190	€ 790	€ 260	€ 790	€ 260	€ 1,110	€ 370
2 Conferences								
EuMC + EuMIC	€ 1,050	€ 340	€ 1,470	€ 470	€ 1,470	€ 470	€ 2,060	€ 660
EuMC + EuRAD	€ 1,050	€ 340	€ 1,470	€ 470	€ 1,470	€ 470	€ 2,060	€ 660
EuMIC + EuRAD	€ 910	€ 300	€ 1,270	€ 420	€ 1,270	€ 420	€ 1,780	€ 590
3 Conferences								
EuMC + EuMIC + EuRAD	€ 1,320	€ 430	€ 1,840	€ 600	€ 1,840	€ 600	€ 2,580	€ 840
Full Week Ticket	€ 2,100	€ 1,270	€ 2,680	€ 1,520	€ 2,680	€ 1,520	€ 3,470	€ 1,880

Special Forums And Sessions Registration

Session	Date	ADVANCED DISCOUNTED RATE (Up to & including 4 September 2026)		STANDARD RATE (From 5 September 2026 & Onsite)	
		Delegates*	All Others**	Delegates*	All Others**
Automotive Forum	6 October 2026	€ 385	€ 540	€ 540	€ 755
Defence Forum	7 October 2026	€ 350	€ 490	€ 350	€ 490
6G Forum	8 October 2026	€ 385	€ 540	€ 540	€ 755
Tom Brazil Doctoral School	4 October 2026	€ 50	€ 50	€ 70	€ 70
Student School	5 October 2026	€ 50	€ 50	€ 70	€ 70
EuMW Gala Event	7 October 2026	€ 60	€ 60	€ 60	€ 60

*those registered for EuMC, EuMIC or EuRAD

**those not registered for a conference

Workshops And Short Courses

	IN COMBINATION WITH CONFERENCE REGISTRATION				WITHOUT CONFERENCE REGISTRATION			
	Society Member Standard	Society Member Student/Sr.	Non-Member Standard	Non-Member Student/Sr.	Society Member Standard	Society Member Student/Sr.	Non-Member Standard	Non-Member Student/Sr.
Half Day	€ 130	€ 100	€ 180	€ 130	€ 180	€ 130	€ 240	€ 180
Full Day	€ 190	€ 140	€ 260	€ 190	€ 260	€ 190	€ 340	€ 260

15th Tom Brazil Doctoral School of Microwaves: Short Range Radar & Phase Array Systems Design: a Hands-on Approach

Date: Sunday 4th October 2026

Room: 2

Time: 08:30 – 18:30

Organiser: Prof. Kevin Chetty, University College London, UK

Presenters: Kevin Chetty & Lai Bun Lok, University College London, UK, Iain Derrington, Analog Devices (ADI).

The European Microwave Week features the 15th Tom Brazil Doctoral School of Microwaves sponsored by Thales NL. It offers M.Sc. and Ph.D. students a focused series of interactive hands-on workshops in RF and microwaves that go beyond the standard conference programme.

In the hands-on workshops, attendees will learn the fundamentals of both short-range radar sensing and Phased Arrays and Beamforming for radar and communications. Learning will be through a combination of lectures that include demonstrations and hands-on implementation sessions where attendees will apply techniques using multiple modern commercial software designed radio/radar technologies.

In the morning students in teams of four will develop short range 60 GHz radar and perform practical experiments, using a Raspberry Pi-powered Dream Board.

The afternoon will be dedicated to learning Phased Arrays and Beamforming techniques focusing on using ADI's PHASER Platform which will be used, providing opportunities for demonstration and development.

Registration

Please visit (click or scan)



Further information

Only 50 participants, get your ticket in advance!

Sponsors



Programme

08:30 Introduction to short range sensing and FMCW
09:30 fundamentals

09:30 Hands-on Workshop: Detection and tracking using 60
10:30 GHz DreamHAT+ radar

10:30 Coffee Break
11:10

11:10 Hands-on Workshop: Data Capture and code modification
12:50 with the 60 GHz DreamHAT+ radar

12:50 Lunch Break
14:10

14:10 Theory & Workshop: Phased Arrays and Beamforming
16:10 techniques using the PHASER radar - Part1

16:10 Coffee Break
16:50

16:50 Theory & Workshop: Phased Arrays and Beamforming
18:20 techniques using the PHASER radar - Part2

European Microwave Student School

From Doherty to Load Modulated Balanced Amplifier: Hands-on Load-Modulated Power Amplifier Design for Efficient and Sustainable RF Systems

Date: Monday 5th October 2026

Room: 4

Time: 08:30 – 18:30

Organisers: Dr Samuel Hefford (Chair), Dr Heungjae Choi (Co-Chair), Centre for High Frequency Engineering, Cardiff University
Vincent Poisson, Technical Field Engineering Manager, Keysight Technologies

The proposed EuMW 2026 Student Design School will focus on high-efficiency microwave power amplifier design, aligned with the conference theme of sustainability. Building beyond a conventional PA fundamentals course, the school will focus on the load-modulated balanced amplifier (LMBA) as the main hands-on simulation activity, using industry-standard Keysight ADS and MACOM device model libraries, thanks to the sponsorship from both companies. The program will guide students from a baseline PA cell through balanced PA operation, injection-based load modulation, and comparison with Doherty PA architecture. Around 80% of the activity will focus on PA design and simulation, supported by short awareness sessions on layout/EM implementation and life-cycle analysis to connect efficiency, complexity, manufacturability and environmental impact within the sustainability theme of EuMW 2026.

Registration

Please visit (click or scan)



Further information

Only 50 participants, get your ticket in advance!

Schedule

08:30 – 10:30 Introduction: High Efficiency PA Principles and single-ended PA design

10:30 – 11:10 Coffee Break

11:10 – 12:50 Balanced PA Design and Introduction to LMBA concept

12:50 – 14:10 Lunch Break

14:10 – 16:10 LMBA Implementation and Comparison with Doherty PA

16:10 – 16:50 Coffee Break

16:50 – 18:30 Layout, EM and implementation awareness, Life-Cycle Analysis awareness

Student Design Competition

THE GAN CHALLENGE: MASTERING OFDM RADAR UNDER REAL PA NONLINEARITIES

Modern multifunction and cognitive radar systems increasingly rely on broadband transmitters capable of waveform diversity to support Integrated Sensing and Communications (ISAC).

The scenario for this competition focuses on a wideband power amplifier design to operate across multiple carrier frequencies and support systems transmitting signals with bandwidths of up to 1 GHz. Such operation places stringent requirements on transmitter linearity, especially when high-PAPR OFDM waveforms are used for sensing.

A comprehensive dataset has been collected using the NI-Emerson Vector

Signal Transceiver (VST) platform, to provide participants with a realistic and challenging setting scenario. The dataset includes real measured transmit and received baseband data from a GaN power amplifier, operated under broadband radar/communication waveform conditions such as:

- Signal Bandwidth (10 MHz, 20 MHz, 50 MHz, 100 MHz, 250 MHz, 500 MHz, 750 MHz, 1GHz)
- Sampling Rate Variable up to 2 GHz
- Subset of Central Frequency (perhaps we can match those given by the supplier in the datasheet)

CHALLENGE OBJECTIVES

Participants must analyze the provided multi-carrier OFDM dataset and design a single adaptive mismatched filter/equalizer that

- Compensates for nonlinear distortions introduced by the broadband PA.
- Remains effective across multiple bandwidths and operational conditions.
- Maximizes radar detection performance (e.g. peak-to-sidelobe ratio, integrated sidelobe ratio) on the receiving end.

The resulting filter acts as a unified signal-conditioning stage, restoring radar processing gain despite PA-induced impairments such as AM/AM distortion, AM/PM distortion, memory effects, and per-subcarrier imbalances.

Teams can consist of up to 5 members and at least one member must be regularly registered as student to the conference before downloading the dataset. Data will be provided in a compressed archive protected by a password, which will be disclosed after the registration.

The archive also contains a document with the description of data format.

Each team must submit a presentation of no more of 15 slides where the proposed solutions and the results and figures are presented.

The competition technical committee will review the submitted presentations and select the finalists that should attend the conference and present their work during a dedicated special session.

The evaluation criteria are important as the rigor of the proposed solution, the selection of critical performance parameters, and the assessment of the receiver performance after the solution is implemented on the experimental data.

The winning team will be announced during the closing session of the EURAD conference and receive €1000 offered by EMERSON.

This Challenge is being supported by a team: Dries Peumans (Vrije Universiteit Brussels), Alessio Balleri (Cranfield University), Carmine Clemente (University of Strathclyde) and Raffaele Fiengo (Emerson)

Information

Deadline

The submission deadline is **1st of August 2026** and the contributions must be sent to [Prof. Alessio Balleri](#).

Dataset

can be downloaded [here](#).

Inspiring Leadership

A Women in Microwave Engineering Event

Date: Tuesday 6th October 2026

Room/Location: 15/offsite

Time: 13:00 – 18:00

Organisers: Noushin Karimian, Manchester Metropolitan University, UK and Dominique Scheurs, KU Leuven, Belgium

We continue the tradition of holding the Women in Microwave Engineering event, sponsored by IEEE MTT-S during the European Microwave Week. Both women and men are welcome. This year's event will take place in London, a leading global city and a world cultural capital. The event will focus on Inspiring Leadership and will end with a tour of the National Maritime Museum in Greenwich. Our invited speaker will give a presentation on her current research and success as a woman in engineering. At the end of the panel session, a visit to the National Maritime Museum will take place.

Programme

Part 1: Panel Discussion

Room: 15

Time: 13:00 – 13:30

A panel session on Inspiring Leadership

Part 2: Museum Visit

Location: National Maritime Museum, Greenwich

Time: 13:30 – 18:00

Participants will enjoy a visit to the National Maritime Museum in Greenwich, exploring one of the world's leading maritime collections. The visit will provide an informal opportunity for networking and discussion while discovering the rich history of navigation, exploration, and innovation.

Registration & Cost

This event is open exclusively to registered EuMW 2026 delegates. Advance registration is required, and places may be limited.

To attend the event, please pre-register by sending an email to wim.eumw2026@eumwa.org, subject: EuMW 2026 – attend WiE event

The event is sponsored by EuMA, IEEE Women in Microwaves and IEEE MTT-S.

Partners



Student Career Event

Connect with Leading Technology Companies!

Date: Wednesday 7th October 2026

Room: 15

Time: 11:10 – 12:50

Organiser: Rola Saad, University College London, UK

More information to follow.

Career-Focused Activities

Join us for a dedicated set of student-industry interaction

11:10 Activity 1 - Careers Talk (TBC)
11:40

11:40 Activity 2 - Company Pitches
12:10

12:00 Activity 3 - Meet the employer
12:40

Sponsors

BAE SYSTEMS



Automotive Forum



Date: Tuesday 6th October 2026

Room: 14

Time: 09:00 – 18:30

Chair: Benjamin Nuss, Technical University of Munich, Germany

Co-Chairs: Martin Kunert, Radar Expert, Germany & Kostas Doris, NXP, The Netherlands & Thomas Zwick, Karlsruhe Institute of Technology, Germany

Applications like keyless entry or tire pressure monitoring systems, mobile communications and, more recently, automotive radar systems made microwave technologies a strong pillar inside the automotive world.

The first 77 GHz automotive radar sensors entered the European vehicle market in 1999. In 2019, the European Microwave Association (EuMA) for the first time organized the Automotive Forum to provide an open platform for industrial experts to discuss technical aspects, concepts and radar architectures as well as market issues in the area of microwaves in the automotive industry.

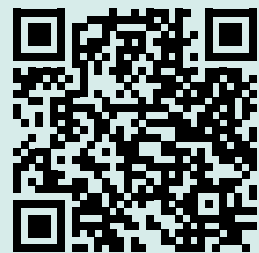
The forum consists of a good mix of technical talks and poster presentations as well as plenty of time for networking. This year's event will focus on the following topics:

1. Enabling technologies and chip design
2. Radar testing
3. Radar antennas
4. Imaging radars

The forum is mainly devoted to technical experts from automotive industry throughout the whole supply chain. Keynote speakers will present their views on special technical solutions as well as regulatory or strategic issues. Early registration is recommended.

Registration and Programme Updates

Please visit (click or scan)



Automotive Forum Networking Dinner

Tuesday 6th October 2026

19:00 – 23:00

Costs: Dinner is already included in the Automotive Forum registration fee (Please bring your badge to gain admission.)

Location off-site: Bökan, Floor 37-39, 40 Marsh Wall, London E14 9TP

Join us for this unique event with food and drinks. You will have plenty of time to network and discuss Automotive Forum topics with other attendees in an open setting.

Automotive Forum Programme



Session 1: Opening & Enabling Technologies

Chair: Benjamin Nuss, Technical University of Munich

09:00 - 09:25	Radar Intelligence in Autonomous Driving: Charting the Challenges of Future Processing Architectures Maximilian Steiner, Mercedes-Benz, Germany
09:25 - 09:50	Radar SoCs as Enablers for Hybrid ADAS Architectures - Decentralized to Centralized Computing Christian Zelger, Robert Bosch GmbH, Germany
09:50 - 10:15	Centralized Architecture for Automotive Radar Farhan Bin Khalid, Infineon Technologies, Germany
10:15 - 10:40	Beyond Antenna Count: A Unified Processing Architecture for Scalable Automotive Radar from ADAS to L2++ and AV Yaohui Liu, Calterah, Germany
10:40 - 11:10	Coffee break

Session 2: Radar Testing

Chair: Martin Kunert, Radar Expert

11:10 - 11:35	High Fidelity System Verification Platform for Pre-Silicon Validation of 77 GHz Automotive Radar Front Ends Dominique Delbecq, NXP, France
11:35 - 12:00	Bridging the Reality Gap: A Validated End-to-End Radar Simulation Pipeline for Automotive Applications Marcel Hoffmann, Johanna Braeunig, Christoph Kammel, Christian Schuessler, Michael Stelzig, fiveD, Germany
12:00 - 12:25	Heimdal: A New Paradigm for Automotive Radar PTI Fahimeh Rafieinia, Kasra Haghighi, UniqueSec, Sweden
12:25 - 12:50	Towards Harmonised Methods for Automotive Radar Interference Testing: Insights from the MeTARI Project Emil Nilsson, Radar Retience/Halmstad University, Sweden William Buller, Michigan Tech Research Institute, USA Joseph Kelly, Dynamic Research, USA Ross Friel, Halmstad University, Sweden
12:50 - 14:10	Lunch

Poster Presentations

Functional Adhesives in Waveguide Antennas: Many Layers of Opportunity
Ian Wang, Martin Kröger, DELO, Germany

Engineering Simulation Mileage for Automotive Radar: Concepts and Industrial Perspective
Martin Holder, Vinayak Killedar, Ansys part of Synopsys, Germany

Flexible and Scalable Next Generation SDR Systems for Radar and ISAC
Lukas Witter, Tobias Koegel, Jonas Rottinghaus, Christian Karle, Benjamin Nuss, Comsen-try, Germany

White Rabbit Synchronization for 77 GHz Automotive Radar Networks
Muhammad Hashsham Chishti, Rossen Michev, Titan Yuan, Robert Bosch GmbH, Germany | Christian Waldschmidt, University of Ulm, Germany

Design Approach for a Centralized Radar System for Autonomous Driving
Andre Giere, GM Munich GmbH, Germany

5D Surround Radar: A New Distributed Corner-Radar Architecture
Kashif Siddiq, Oxford RF, UK



Session 3: Poster Presentations & Radar Antennas Headline

Chair: Kostas Doris, NXP

14:10 **Waveguide-Based Antenna-in-Package Solutions Using Multilayer Waveguide (MLW) for In-Cabin Radar Applications**
14:35 Abbas Vosoogh, Nils Dagås, Gapwaves, Sweden

14:35 **Next Generation Waveguide Antenna from 77 GHz to 140 GHz**
15:00 Jerzy Kowalewsk, Huber+Suhner, Switzerland

15:00 **Radar Module Integration using Antenna Digital Twins**
15:25 Andreas Lauer, Marta Martínez-Vázquez, Winfried Simon, IMST, Germany

15:25 **Poster Pitches**
15:45

15:45 **Poster Session**
16:10

Session 4: Imaging Radars

Chair: Thomas Zwick, Karlsruhe Institute of Technology

16:50 **Quo vadis Imaging Radars: How Many Channels are Necessary?**
17:15 Andreas Loeffler, Aumovio, Germany

17:15 **Photonic Distributed RADAR for Automotive - Solving the resolution barrier**
17:40 Sven Otte, Xavveo, Germany

17:40 **From Detection to Perception: A Novel Approach to Radar Integration for Eyes-Off Autonomy**
18:05 Noam Arkind, Arbe Robotics, Israel

18:05 **AI based 4D Imaging Radar toward E2E Perception**
18:30 Xuyang Li, Sinpro, China

The Defence Forum

Shaping the Future of Microwave Defence

Date: Wednesday 7th October 2026

Room: 12

Time: 08:45 – 18:00

Chairs: Volker Ziegler, Airbus, Germany and Patrick Scheele, Ferdinand-Braun-Institut (FBH) gGmbH, Germany

Microwave technology is the backbone of modern defence, serving as a critical pillar for radar, electronic warfare, and secure communication systems. As the battleground evolves - highlighted by the rise of drone technology - innovative microwave solutions are essential for effective detection and response. The inaugural Defence Forum creates a unique ecosystem, connecting funding bodies, industry, and academia to accelerate the translation of research into real-world defence capabilities.

The day is curated to address the most pressing challenges and advancements in the sector today with the following speakers:

- Fredrik Dicander, Strategic Planning and Development Analyst, SAAB, Sweden
- Benoit Michel, Project Officer, EDA CapTech Technologies for Components and Modules, France
- Ashutosh Kedar, Scientist and Project Director, Electronics & Radar Development Establishment, DRDO, India
- Dan Bliss, Professor, School of Electrical, Computer, and Energy Engineering, Arizona State University, USA
- Michal Grabowski, Senior Antenna Engineer, and Mateusz Burtowy, Director of Radar Systems Development Office, Pit-Radwar, Poland
- Klaus Beilenhoff, Senior Manager Strategy & Innovation, UMS, Germany

The start-up session will include pitches on innovative solutions for antenna measurements, low-cost CRPA solutions, phased array technologies, drone detection and drone-based radars from:

- Anouk Hubrechtsen, CEO Antennex (The Netherlands), Prof. Amit Mehta, CEO AdaptiveAntennas (UK), Fabian Michler, CTO Wolf Radar (Germany), Ana Pe-láez Pérez, CEO Maxwell Applied Technologies (Spain), Daniel Escadas, CEO RFisense (Portugal)

The exhibitor sneak-preview will feature talks on modern spectrum management, wideband direct sampling systems and RF-systems for small platforms.

- Rolland Zhang, Global Product Manager, FieldFox & Spectrum Management Software, Keysight, "Modern Spectrum Management and Direction-Finding technologies"
- Jeff Miner, Vice President and Chief Technologist for RF Systems, Spectrum Control, Shifting the Burden: "RF Front Ends in Wideband Direct Sampling Systems"
- Dean White, Senior Director of Aerospace and Defense, Qorvo, "Future European Defense Systems - RF Technology for Smaller, More Capable Platforms"

Don't miss our featured panel discussion: "The Drone Age: How big is the role of microwaves?" which will explore the evolving importance of massive drone usage in military actions and the related challenges and opportunities for microwave systems.



Registration and
Programme Updates

Please visit (click or scan)



SPONSORS



Defence Forum Programme



08:45 09:00	Welcome Airbus & Ferdinand-Braun-Institut gGmbH Volker Ziegler & Patrick Scheele
09:00 09:45	Challenges in Scalable Sensor Systems Saab Fredrik Dicander
09:45 10:30	The Spectrum Strikes Back: Resilient RF Electronics for Defence European Defence Agency Benoit Michel
10:30 11:05	Coffee Break
11:05 11:50	Advances in Phased Array Development in India: State-of-the-Art and Recent Trends Defence Research and Development Organisation of India Ashutosh Kedar
11:50 12:20	Future of RF Systems: Applications and Computational Technologies Arizona State University Dan Bliss
12:20 12:50	Advanced Microwave Architectures for Modern Radar Systems in Defence Applications Pitradwar Michal Grabowski & Mateusz Burtów
12:50 13:45	Seated Lunch
13:45 14:15	Strengthening European GaN Technology and Components Development Capability for Military Radar, EW and Communication Applications UMS Klaus Beilenhoff
14:15 14:30	New OTA Testing Methods for Scalable A&D Production Antennex Anouk Hubrechtsen
14:30 14:45	Resilient GNSS: Low-Cost CRPA Solutions for Contested EM Environments Adaptive Antennas Amit Mehta
14:45 15:00	Wolf Radar – SWaP-Optimized Radar Solutions for UAV Detection Wolf Radar Fabian Michler
15:00 15:15	Advanced RF End Technologies for Next-Generation AESA Systems Maxwell Applied Technologies Ana Peláez Pérez

Defence Forum Networking Event

Wednesday 7th October 2026
18:30 – 22:00

Costs: The event is already included in the Defence Forum registration fee (Please bring your badge to gain admission.)

Location off-site: Sunborn yacht, Royal Victoria Dock, London, E16 1AA

The Defence Forum concludes with an evening to foster meaningful connections in a relaxed, professional atmosphere. This is the ideal place to continue the day's conversations and solidify partnerships.





15:15 **RF-Sentinel: Mobile Detection of FPV Drone Threats****15:30**
RFisense
Daniel Escadas

15:30 **Modern Spectrum Management and Direction-Finding Technologies****15:50**
Keysight Technologies
Rolland Zhang

15:50 **RF Front Ends in Wideband Direct Sampling Systems****16:10**
Spectrum Control
Jeff Miner

16:10 **Coffee Break****16:40**

16:40 **Future European Defense Systems – RF Technology for Smaller, More Capable Platforms****17:00**
Qorvo
Dean White

17:00 **Panel: The Drone Age – How Big is the Role of Microwaves?****18:00**

6G Forum



Date: Thursday 8th October 2026

Room: 14

Time: 09:00 – 18:00

Organizing committee: Ulf Gustavsson (Ericsson), Chong Li (University of Glasgow), Fred van Rijs (Ampleon), Jos Berière (TNO/FNS-6G) and Bart Smolders (TU/E)

The 6G forum is a dynamic and interactive one-day event to bring you up to date with the latest developments in wireless communications. There will be interesting keynote presentations on applications, standardization, spectrum management and advanced microwave and antenna technologies. We will address the ongoing discussions on which frequency bands will be most commercially successful. In addition, there will be several live demos showing recent technological developments on the road to 6G. In addition, there will be plenty of room for discussion and networking. The event includes a networking lunch with live demo's and dinner.



Programme

6G Leading applications

09:00 09:30	AI-Driven Robotics over 6G: From Connectivity to Autonomy at Scale Ericsson Hamed Farhadi
09:30 10:00	6G Use in the Hospital of the Future Maastad Hospital Niels Hoffmann
10:00 10:30	6G – A Game Changer for Traffic Management Swarco ITC Danny Vroemen
10:30 11:10	Coffee & Networking

Registration and Programme Updates

Please visit (click or scan)



6G Forum Networking Dinner

Thursday 8th October 2026
18:00 – 21:00

Costs: Dinner is already included in the 6G Forum registration fee (Please bring your badge to gain admission.)

Location off-site:
Bonnane Restaurant
Unit G7 Capital East
17 Western Gateway
London, E16 1AQ

Join us for this unique event, which includes a welcome reception and a seated dinner. You will have plenty of time to network and discuss 6G Forum topics with other attendees in an open setting.

Sponsors





Physical Layer Overview, Standardization & Regulation (including Deployment)

11:10	How Geo-Politics Impacts Future 6G
11:40	Peira Consulting Ian Corden
11:40	AI Native Architectures for 6G
12:10	Digital Catapult Kostas Katsaros
12:10	From Data to Autonomous Networks: The AI-Native 6G Journey
12:40	Keysight Technologies Giovanni D'amore
12:50	Lunch & Demonstrations
14:10	Including informal (poster like) presentations

6G Technologies: Sub-6 GHz towards 7 – 24 GHz (FR1, FR3)

14:10	Towards Over-the-Air Testing for 6G Base Stations
14:40	Ericsson Jonas Fridén
14:40	Highly Efficient Digital Transmitters
15:10	TU Delft Leo de Vreede
15:10	Satcom Perspective
15:40	Viasat Carolina Vigano
15:40	Coffee & Networking
16:00	

The generations of wireless networks

6G

Enabling a smart sustainable society ~2030

- Extension to (sub) mmWave frequencies
- Real-time cloud computing

1 Tbps
5G

Embracing a networked society ~2020

- 1000 × increase in capacity
- Support for 100+ billion connections
- Below 1 ms latency

10 Gbps
4G

Mobile broadband enhanced ~2010

- Designed primarily for data
- IP based protocol
- True mobile broadband

100 Mbps
3G

The foundation of mobile broadband ~2000

- Designed for voice and data
- First mobile broadband
- Voice through circuit & Data-Packet Switching

2 Mbps



6G Technologies: 24 – 300 GHz (FR2, FR4)

16:00 Technologies for Radar Sensing
16:30 NXP Semiconductors
Maarten Lont

16:30 Pushing GaN Technology to the Limit with Diamond-Based Heat Extraction
17:00 University of Bristol
Zeina Abdallah

17:00 High Performance E-Band Power Amplifiers
17:30 Filtronic
Tudor Williams

17:30 Panel discussion
18:00

2G

Mobile telephony for everyone ~1990

- Designed for voice
- First digital standards (GSM, CDMA)

64 Kbps

1G

The foundation of mobile telephony ~1980

- Basic voice service
- Analog based protocols

2.4 Kbps

Space Forum

New Frontiers in Space Technologies: Opportunities, Applications, and Challenges

Date: Thursday 8th October 2026

Room: 11

Time: 09:00 - 12:50

Chair: Kamal Samanta, AMWT Ltd UK

The global space industry is seeing rapid growth, driven by innovations in satellite communications, Earth observation, navigation, sensing, autonomous systems, artificial intelligence, and space exploration. Innovative technologies and commercial enterprises are redefining the role of space infrastructure in enabling global connectivity, security, environmental monitoring, scientific inquiry, and future exploration missions.

The inaugural Space Forum within the framework of European Microwave Week (EuMW), will gather distinguished experts from industry, government, research institutes, and academia to explore the opportunities and challenges shaping the future of the space ecosystem.

The forum will focus on innovations in satellite communications and non-terrestrial networks (NTN), advanced payload technologies, software-defined and reconfigurable satellite systems, Earth observation, space situational awareness, and upcoming lunar and deep-space missions.

Presentations will emphasize the advancement of satellite communication architectures, multi-band, multi-orbit, and multi-constellation networks, improved ground terminals, robust and secure space-based communications, and the integration of space and terrestrial networks. The program will examine the impact of space weather on radio and microwave systems, along with the growing need for monitoring, forecasting, and mitigation strategies. The forum will address topics such as orbital sustainability, active debris removal, in-orbit servicing, spectrum management, interoperability, and the long-term resilience of intricate space systems.

The forum will feature keynote presentations from senior leaders and technology experts associated with leading space agencies, satellite operators, system manufacturers, research institutions, and emerging NewSpace companies, providing a unique platform for exchanging insights, fostering collaboration, and tackling the technologies, applications, and challenges that will influence the future of space exploration.

Programme Updates

Please visit (click or scan)



All Delegates and registered Visitors are welcome to join the forum for free – there is no additional registration requirements for this forum

Space Forum

Programme

Session 1

09:00 09:30	Presentation TBC
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09:30 10:00	Presentation TBC
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10:00 10:30	Presentation TBC
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10:30 11:10	Coffee Break
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Session 2

11:10 11:40	Presentation TBC
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11:40 12:10	Presentation TBC
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12:10 12:40	Presentation TBC
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MONDAY 08:30 – 10:30

ROOM	Room 10	Room 11	Room 12	Room 14
	EuMIC02 From TCAD to PDKs: Advanced Modeling of III-V HEMTs Chair: Teresa M. Martín-Guerrero¹ Co-Chair: Antonio Raffo² ¹Universidad de Málaga, ²University of Ferrara	EuMIC03 High-Frequency Mixed-Signal CMOS Components Chair: Aleks Dyskin¹ Co-Chair: Vadim Issakov² ¹Nvidia, ²Technical University Braunschweig	EuMIC04 W-Band and D-Band High-Performance Integrated Amplifiers Chair: Vojkan Vidojkovic¹ Co-Chair: Tommaso Cappello² ¹Eindhoven University of Technology, ²Villanova University, USA	EuMIC05 Gallium Nitride Power Amplifiers Chair: Rocco Giofrè¹ Co-Chair: Konstantinos Mimis² ¹Università di Roma Tor Vergata, ²Sony Europe B V
08:30 – 08:50	EuMIC02-1 TCAD-assisted analysis of large-signal dynamic trap effects in GaN HEMT power amplifiers Simona Donati Guerrieri¹, Edoardo De Ruvo¹, Fabrizio Bonani¹ ¹Politecnico di Torino	EuMIC03-1 An 18.5GS/s Single-Core Flash ADC with Back-Gate Offset Calibration Obtaining 28.8dB SNDR at 37.2GHz Input Frequency in 22nm FD-SOI Nima Lotfi¹, Philipp Scholz², Friedel Gerfers² ¹Technische Universität Berlin, ²Technische Universität Berlin	EuMIC04-1 250-nm InP/GaAsSb DHBT Technology for W- and D-Band Power Amplifiers Sara Hamzeloui¹, Mojtaba Ebrahimi Maroufi¹, Andrea Cercaci¹, Filippo Giabattini¹, Akshay M Arabhavi¹, Olivier J. S. Ostinelli¹, Colombo R. Bolognesi¹ ¹ETH Zurich, Switzerland	EuMIC05-1 GaN-on-Si for RF Applications: Progress, Potential and Challenges Konstantinos Mimis¹ INDUSTRIAL KEYNOTE ¹Sony Europe B V
08:50 – 09:10	EuMIC02-2 Robust Extrinsic Parasitic Extraction for GaN HEMTs Using Full Bias-Range Cold-FET Optimisation Advik Bahadur¹, Justin King¹ ¹Trinity College Dublin	EuMIC03-2 A 58-GHz Dual-Modulus 2/3 TSPC Frequency Divider in 22-nm FDSOI CMOS with Body-Bias Tuning Tetiana Baluta¹, Yerzhan Kudabay¹, Vadim Issakov¹ ¹Braunschweig Technical University	EuMIC04-2 A 113-143 GHz Wideband Power Amplifier in 28nm CMOS Featuring 22.2% Fractional Bandwidth for Sub-THz Applications Ting-Yu Chang¹, En-Lin Hong¹, Kai-Jie Chuang¹, Yi-Wen Wang¹, Jeng-Han Tsai², Tian-Wei Huang¹ ¹Graduate Institute of Communication Engineering, National Taiwan University, Taiwan, ²National Taiwan Normal University	EuMIC05-2 A Twisted Hybrid Coupler-Based Balanced Power Amplifier in 150 nm GaN for 5G Applications Sujeewan Vigneswaran¹, Eric Kerhervé¹, Nathalie Deltimple¹, Romain Mathieu¹, Kimon Vivien¹ ¹Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ²UMS - United Monolithic Semiconductors
09:10 – 09:30	EuMIC02-3 Scalable Small-Signal Modeling of 20-nm InGaAs HEMTs Using a DC-Biased Backside Field Plate Maxime Moulin¹, Sayed Ali Albahrani¹, Felix Heinz², Meike Schauerte², Armulf Leuther² ¹Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics	EuMIC03-3 A 32 GHz Analog PLL with the Second Harmonic Extraction at 64 GHz for 6G Applications in 22FDX Meghana Kadam¹, Yazan Saad Aldine¹, Vadim Issakov¹ ¹Institute for CMOS Design, Technical University Braunschweig	EuMIC04-3 A D-band High-Power and High-Gain Stacked Power Amplifier with Modified Slotline-Based Power Combiner in 22-nm FD-SOI Huibo Wu¹, Xingcun Li¹, Shunhua Hu¹, Quangin Liao¹, Wenhua Chen¹ ¹Tsinghua University	EuMIC05-3 Design and Implementation of a Ka-Band GaN MMIC Series Doherty Power Amplifier Francesco Manni¹, Paolo Colantonio¹, Rocco Giofrè¹ ¹University of Rome Tor Vergata
09:30 – 09:50	EuMIC02-4 Experimental Characterization up to 150 GHz and Scaling Effects of 0.1-µm GaAs Devices for W-Band Power Applications Antonio Mordà¹, Valeria Vadalà², Gianni Bosi², Ciro Esposito¹, Federico D'Aniello¹, Giovanni Crupi² ¹Università degli Studi di Milano-Bicocca, ²Università di Messina	EuMIC03-4 A Compact 36-64 GHz Differential VGA with Frequency-Selective Gain Control in 40-nm CMOS Zhen Yan¹, Satoshi Tanaka¹, Takeshi Yoshida¹, Minoru Fujishima¹ ¹Hiroshima University	EuMIC04-4 A D-Band SiGe Power Amplifier with a Coupled Line-Based Four-Way Power Combiner Ibrahim Kagan Aksoyak¹, Henning Poensgen², Ahmet Çağrı Ulusoy¹ ¹Texas Instruments, USA, ²Karlsruhe Institute of Technology	EuMIC05-4 A Power-Reflection Tolerant 4-W Ka-band Power Amplifier for Satellite Communications Anna Piacibello¹, Giulia Bartolotti¹, Andrea Biondi², Felix Mentgen¹, Vittorio Camarchia¹, Francesco Scappaviva¹ ¹Politecnico di Torino, ²MEC s.r.l., ³ESA / ESTEC
09:50 – 10:10	EuMIC02-5 Enhancing PDK Accuracy Through Advanced Modeling of 0.15-µm GaN Transistors Mario Castorio¹, Gianni Bosi², Valeria Vadalà², Antonio Nanni¹, Luca Falcetta², Alessio Pantellini², Antonio Raffo¹, Giorgio Vannini¹ ¹Leonardo S.p.A., ²University of Milano-Bicocca, ³University of Ferrara	EuMIC03-5 A 0.2~2.28 GHz Reconfigurable 2nd order Analog SR LPF with a Tripartite Mapping Using 40-nm Bulk CMOS Technology Cheng Xu¹, Zhuoheng Chen¹, Yun Fang², Xianhu Luo¹, Liang Zhang¹, Jiangnan Han¹, Yunbo Rao¹, Meng Jia¹, Shangxuan Chen¹, Bo Wei¹, Xianjin Deng¹, Hao Gao¹ ¹Microsystems&Terahertz Research Center, CAEP, P.R.China, ²Purple Mountain Lab, P.R.China, ³Hangzhou Dianzi University, P.R.China, ⁴Southeast University, P.R.China	EuMIC04-5 A 130-165 GHz All-Common-Base Variable-Gain Amplifier with Constant OP1dB in SiGe BiCMOS Guglielmo De Filippi¹, Lorenzo Piotto¹, Francesco Svelto², Andrea Mazzanti² ¹Fondazione Chips-IT, ²Università di Pavia	EuMIC05-5 A High-Efficiency Doherty Power Amplifier with Enhanced Back-Off Performance Aliyari Aliyari¹, Vahid Nayyeri¹, Ahmad Ayatollahi¹, Sayyed-Hossein Javid-Hosseini¹, Paolo Colantonio² ¹Iran University of Science and Technology, ²University of Rome Tor Vergata
10:10 – 10:30		EuMIC03-6 High Linearity E-Band SPDT Switch with 1.6 dB Insertion Loss in 16 nm FinFET CMOS Technology Roei Ben-Yishay¹ ¹Mobileye, Israel	EuMIC04-6 Wideband W Band 55 nm SiGe LNA Design Using Low Q Cells for Multi Standard Link and Metrology Applications Valérie DANELON¹, Patrice GARCIA¹, Loïc Vincent², Larbi Boukhezar², Philippe Ferrari² ¹STMicroelectronics, ²Univ. Grenoble Alpes	EuMIC05-6 A 4-W 38 GHz High Efficiency Power Amplifier Using 0.12 µm GaN HEMT Technology Xin-Hao Huang¹, Yunshan Wang¹, Hwei Wang¹ ¹National Taiwan University

MONDAY 11:10 – 12:50

ROOM

Room 7 - 9

EuMIC01

EuMIC Opening

11:10
–
11:30

Welcome Address: Opening of the European Microwave Integrated Circuits Conference 2026

Tudor Williams¹
¹Filtronix

11:30
–
12:10

Trends in III-V Semiconductor Design - A Component and Design Services Supplier Perspective

Merv Haynes¹
¹CML Micro

The pace of semiconductor development and inclusion in modern communication systems is continuing to grow. This provides both opportunities for component suppliers in the marketplace and challenges on how to meet this demand. The changing geo-political landscape and customer requirements on supply chain are providing additional complexities. This paper outlines an overview from CML Micro on the trends in the industry covering both standard component release and 3rd party bespoke design services.

12:10
–
12:50

RF/mmWave Silicon Enabling the SATCOM Space Race

Alan Wong¹
¹EnSilica plc

Technological advancements in satellite payloads and ground terminals, enabled by modern silicon technologies, are transforming satellite communications. Growing demand for ubiquitous connectivity, higher data rates, and lower latency is driving innovation utilizing high speed, mainstream silicon processes. These technologies are now being deployed across non geostationary orbit (NGSO) constellations, earth terminals, and emerging direct to device/handset solutions.

This presentation examines the RF and mmWave silicon circuit and system level challenges involved in closing broadband link budgets for space communications. It highlights architectures and implementations for both dedicated user terminals and direct to device satellite connectivity, illustrating how silicon integration is enabling scalable, high performance satellite networks.

MONDAY 14:10 – 16:10

ROOM	Room 10	Room 12	Room 14	Room 17
	EuMIC06 Advanced Circuits Analysis, Simulation, and Synthesis Chair: Valeria Vadalà¹ Co-Chair: Marco Pirola² ¹University of Milano-Bicocca, ²Politecnico di Torino	EuMIC07 Millimeter-Wave Phase Shifters and Mixed-Signal Circuits Chair: Frank E. van Vliet¹ Co-Chair: Sébastien Chartier² ¹TNO Defense, Safety and Security, ²IAF-Fraunhofer: Fraunhofer Institute for Applied Solid-State Physics	EuMIC08 Silicon-Based Circuits and Systems for Emerging Applications Chair: Gavin Watkins¹ Co-Chair: Nathalie Deltimple² ¹GapRF, ²Bordeaux INP, IMS Laboratory	EuMIC09 GaN Devices and Technologies Chair: Kenle Chen¹ Co-Chair: Chong Li² ¹Northeastern University, Boston, ²University of Glasgow
14:10 – 14:30	EuMIC06-1 Harmonic Balance Simulation of Nonlinear Circuits Driven by Pseudo-Random Modulated Signals for EVM Evaluation EL GHALI HAMOUCHI¹, Denis Barataud¹, Guillaume Neveux¹ ¹Xlim - UMR 7252 - CNRS- University of Limoges	EuMIC07-1 D-Band Phase Shifter Using a Modified Translinear Loop for Linearized Gain and Phase Control Stefan Schönhärl¹, Albert-Marcel Schrotz¹, Manuel Koch¹, Sascha Breun¹, Robert Weigel¹, Norman Franchi¹ ¹Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU)	EuMIC08-1 Scaling Silicon Spin Quantum Computers on the 22-nm FDSOI Platform Alberto Gomez-Saiz¹ INDUSTRIAL KEYNOTE ¹Quantum Motion	EuMIC09-1 A Rugged 40 V 0.12-µm GaN HEMT Technology Platform for Single Chip RF Front-Ends Jung-Tao Chung¹, Pei-Ying Wu¹, Ju-Hsien Lin¹, Yu-Syuan Lin¹, Zong-Yu Lin¹, Yun-Shiuan Li¹, Chien-Rong Yu¹, Min-Yan Lin¹, Shou-Hsien Weng¹, Shao-Chang Cheng¹, Wei-Chou Wang¹, Keiichi Matsushita¹, Cheng-Kuo Lin¹ ¹Win Semiconductors, ²Lunghua University of Science and Technology
14:30 – 14:50	EuMIC06-2 Generalized Two-Port Feedback Analysis Thomas Winslow¹ ¹MACOM	EuMIC07-2 A W-Band Low-Gain-Variation Phase-Shifter-Embedded Frequency Tripler With 120° Phase-Shifting Range in 40-nm CMOS Chun-Sheng Lin¹, Chun-Hsing Li¹ ¹National Taiwan University	EuMIC08-2 A 19.25 GHz VCO with -110.5 dBc/Hz for Automotive Radar with Enhanced 2-nd Harmonic Filter in 22 nm FDSOI Process Laszlo Szilagy¹, Chi Zhang², Abdelaziz Ketani², Ahmed Fridi¹, Shafiuallah Syed², Abdellatif Bellaouar² ¹GlobalFoundries, Germany, ²GlobalFoundries, USA	EuMIC09-2 High-Frequency Performance AlN/GaN HEMTs with sub-100 nm Gate Lengths Patrick Jonsson¹, David Adolph¹, Niklas Rorsman¹ ¹Chalmers University of Technology
14:50 – 15:10	EuMIC06-3 On the Incompleteness of the WSProbe-Based Large-Signal Ohtomo Test Sergio Colangeli¹, Walter Ciccognani¹, Patrick Ettore Longhi¹, Ernesto Limiti¹ ¹University of Roma Tor Vergata	EuMIC07-3 A 7-Bit 360° Ka-Band Phase Shifter Using Multifunctional Coupled Resonators in 90-nm CMOS Pin-Chun Chiu¹, Chun-Sheng Lin¹, I-Chen Lu¹, Chun-Hsing Li¹ ¹National Taiwan University	EuMIC08-3 A Fully Integrated Dual-Band Transmitter MMIC for 60/120 GHz FMCW Radar Darina Abdyusheva¹, Maximilian Schröder², Bent Walther², Thomas Musch², Marcel van Delden² ¹Ruhr-University Bochum, Germany, ²Ruhr-University Bochum, Germany	EuMIC09-3 15 W/mm Output Power Density AlGaN-GaN HEMTs on the Epitaxy with Ultra Thin Buffer for X-Band Applications Emirhan URFALI¹, Turkan Gamze Ulusoy Ghobadi¹, Yunus Erdem Aras¹, Ekmel Ozbay¹ ¹Nanotechnology Research Center (NANOTAM), Bilkent University
15:10 – 15:30	EuMIC06-4 Efficient pixelated EM topology optimization for the design of broad-band symmetric MMIC Wenjun Zhang¹, Marco Pirola¹, Chiara Ramella¹, Qi-Jun Zhang¹ ¹Politecnico di Torino, ²Carleton University / Politecnico di Torino	EuMIC07-4 A 1.9–2.4-dB NF Ka-Band Receive Beamformer IC with Transmit-Leakage Suppression for SATCOM Applications Boce Lin¹, Zhuoran Li¹, Basem Abdelaziz Abdelmagid¹, Mohamed Eleraky¹, Hangxing Liu¹, Marco Saif¹, Alessandro Novello¹, Jianping Zeng¹, Maxime Marchionno¹, Niccolò Villaggi¹, Giorgio Cristiano¹, Tzu-Yuan Huang¹, Thomas Burger¹, Thomas Kleier¹, Hua Wang¹ ¹ETH-Zürich, ²ARGUS SPACE AG.	EuMIC08-4 A 300-GHz SiGe Radar: Comparison of Frontside and Backside Radiation Enabling up to 100 GHz Tuning Range Benedikt Sievert¹, Christian Bredendiek¹, Till Ziegler-Bellenberg¹, Olga Krylova², Andrii Berdnykov², Dominic Funke¹, Klaus Aufinger², Nils Pohl¹, Jan Wessel¹ ¹Fraunhofer FHR, ²Ruhr University Bochum, ³Infineon Technologies AG	EuMIC09-4 Optimizing Drift-Layer Doping in GaN Schottky Diodes for High-Efficiency Rectification with Wide Dynamic Range Qiu-Xuan Li¹, Yang Li¹, Ren-Pin Huang¹, Tao Liu¹, Jin-Ping Ao¹, Dominique Schreurs² ¹Jiangnan University, ²KU Leuven, Belgium
15:30 – 15:50	EuMIC06-5 A Framework for Millimeter-Wave Matching-Network Synthesis Using Compact Passive Modules and Topology Augmentation Dingan Wang¹, Manuel Koch¹, Norman Franchi¹, Robert Weigel¹ ¹FAU Erlangen-Nuremberg, Institute for Smart Electronics and Systems	EuMIC07-5 A Power-Efficient Monolithic 45-nm Silicon Photonics C-Band Transmitter For 100ZR QSFP28 Form Factors Adel Fatemi¹, Despoina Petousi¹, Ana Pejicic¹, Saif Alnairat¹, Yagiz Nas¹, Alper Güner¹, Benjamin Wohlfeil¹, Niccolò Lassalle¹, Stevan Djordjevic¹, Hasan Al-Rubaye¹ ¹ADTRAN Networks SE, ²University of California San Diego, USA	EuMIC08-5 A QFN-packaged 6.4–8.4 GHz SiGe BiCMOS PA for 5G-Adv/6G with 30 dBm PSAT and 37.5% PAE Davide Pecile¹, Alberto Gambarucci¹, Stefan Kokorovic¹, Luigi Marzocchella¹, Andrea Bevilacqua² ¹Infineon Technologies AG, ²University of Padova	EuMIC09-5 Enhanced Performance of Low-Voltage (5 V) FR3 GaN-on-Si HEMTs via In-situ SiN Epitaxy Tuning Yihao Zhuang¹, Qingyun Xie¹, Siyu Liu¹, Marianne Germain¹, Jan Strate¹, Kathia Harrouche¹, Carsten Beckmann¹, Xavier Sean¹, Geok Ing Ng¹ ¹Nanyang Technological University, ²Agency for Science, Technology and Research Singapore, ³Soitec Belgium, ⁴Soitec Singapore
15:50 – 16:10		EuMIC07-6 A 9-bit 250-MHz Variable-Slope Digital-to-Time Converter Using Supply-Ripple Isolation With 0.92-LSB INL Zihao Lu¹, Weichen Tao¹, Liheng Lou¹, Robert Bogdan Staszewski², Yizhe Hu¹ ¹University of Science and Technology of China, ²University College Dublin		EuMIC09-6 Modeling Methods for GaN Circuits in FOWLP Packages with Quantitative Model Validation Tao Petit¹, Mohamed Bouslama¹, Stéphane Piotrowicz¹, Louiza Hamidouche¹, Quentin Lévesque¹, Benoit Lambert¹, Raphaël Sommet¹, Nicolas Delhote¹ ¹III-V Lab, ²United Monolithic Semiconductors (UMS), ³XLIM - Université de Limoges

MONDAY 16:50 – 18:30

ROOM	Room 10	Room 11	Room 12	Room 17
	EuMIC10 MMIC Advanced Automated and Open-Source Design Flows Chair: Chiara Ramella ¹ Co-Chair: Alessandro Cidronali ² ¹ Politecnico di Torino, ² Alessandro Cidronali	EuMIC11 Advanced III/V RF Components Chair: Gregor Lasser ¹ Co-Chair: Ulrich Lewark ² ¹ Chalmers University of Technology, ² IMST GmbH	EuMIC12 Frequency Multipliers and Oscillators in Si and III-V Based Technologies Chair: Piyush Kaul ¹ Co-Chair: Ingmar Kalfass ² ¹ Eindhoven University of Technology - TU/e, ² University of Stuttgart	EuMIC13 CMOS Devices and Technologies Chair: Alan Wong Co-Chair: Tudor Williams ¹ ¹ Filtronix
16:50 – 17:10	EuMIC10-1 Open-Source Design Automation of a V-Band Low Noise Amplifier in 130 nm SiGe BiCMOS Technology Giulio Brancali ¹ , Giacomo Volini ¹ , Ethan Bernardini ¹ , Lorenzo Casciotti ¹ , Giacomo Schiavolini ¹ , Giulia Orecchini ¹ , Federico Alimenti ¹ ¹ University of Perugia, Italy	EuMIC11-1 High Linearity Carrier Aggregation Architecture Using A 250nm Bootstrap GaN N-Path Filter Erez Loebli ¹ , Emanuel Cohen ¹ ¹ Faculty of Electrical Engineering, Technion, Israel	EuMIC12-1 A W-Band Frequency Tripler in 130 nm BiCMOS with a Novel Fundamental Rejection Technique Chiara Kohl ¹ , Manuel Koch ¹ , Martin Grund ¹ , Kai Scheller ¹ , Norman Franchi ¹ ¹ FAU Erlangen-Nuremberg, Institute for Smart Electronics and Systems	EuMIC13-1 A Compact Band-Selectable Bi-Directional Coupler With an Integrated Wi-Fi Filter in RF SOI CMOS Ting-Li Hsu ¹ , Valentyn Solomko ² , Amelie Hagelauer ³ ¹ Chair of Micro and Nanosystems Technology, Technical University of Munich, ² Infineon Technologies AG
17:10 – 17:30	EuMIC10-2 Pareto Optimization of a 25 GHz GaN MMIC Dual-Input Envelope Tracking PA Operation Marco Badii ¹ , Stefano Maddio ¹ , Giovanni Lasagni ¹ , Giovanni Collodi ¹ , Monica Righini ¹ , Alessandro Cidronali ¹ ¹ University of Florence, Italy	EuMIC11-2 A Tunable X-band GaN MMIC Active Notch Filter with Adjustable Rejection Sofia Mvokany ¹ , Ariana Kazemi ¹ , Laila Fighera Marzali ¹ , Zoya Popovic ¹ ¹ University of Colorado - Boulder	EuMIC12-2 Broadband SiGe D-Band Quadrupler with Class-F Bootstrapping Caitlinn Ellis ¹ , Yaw Mensah ¹ , Christopher Snyder ¹ , Joseph Caezza ¹ , John D. Cressler ¹ ¹ Georgia Institute of Technology	EuMIC13-2 Single-Chip Cryogenic Avalanche Noise Sources: Preliminary Results and Circuit Models Guendalina Simoncini ¹ , Ehsan Shokrolahzade ¹ , Giacomo Schiavolini ¹ , Giulia Orecchini ¹ , Marco Spirito ¹ , Federico Alimenti ¹ ¹ Technical University of Delft, ² Università degli Studi di Perugia
17:30 – 17:50	EuMIC10-3 An Open-Source Design Flow for Sub-THz RFICs: 207 GHz Low Noise Amplifier and 180 GHz Power Amplifier Atif Ali ¹ , Md. Shafin Hossain ¹ , Rupok Das ¹ , Sultan Mohammad Ikram ¹ , Tanjil Shivan ¹ , Farabi Ibne Jamal ¹ ¹ Neural Semiconductor Limited, ² Ferdinand-Braun-Institut GmbH, Berlin, Germany, ³ IHP - Leibniz Institute for High Performance Microelectronics	EuMIC11-3 1.3-W, 59%-Efficient K-band Rectifier MMICs using Cost-Effective Schottky Barrier Diodes Shinji Hara ¹ , Kengo Sumiya ¹ , Keiichi Sakuno ¹ , Noriyuki Tanba ¹ , Yasuhisa Ushida ¹ ¹ Nagoya University	EuMIC12-3 Extended D-Band Frequency Quadrupler based on Harmonic Source- and Load-Pull Measurements Eric Sigle ¹ , Fabian Thome ¹ , Arnulf Leuther ¹ , Rüdiger Quay ¹ ¹ Fraunhofer IAF	EuMIC13-3 Air-Filled Substrate Integrated Waveguide Structures in 3D Integrated Technology for D-band Applications Hajar Zidane ¹ , Christopher Pouzou ¹ , Jordan Corsi ¹ , Loïc Vincent ¹ , Victor Milon ¹ , Cédric Durand ¹ , Pascal Chevalier ¹ , Daniel Gloria ¹ , Christophe Dubarry ¹ , Olivier Valorge ¹ , Jean-Daniel Arnould ¹ , Emmanuel Pistono ¹ ¹ Univ. Grenoble Alpes, ² Grenoble INP, CIME, ³ STMICROelectronics
17:50 – 18:10	EuMIC10-4 A Novel Fully Open-Source RFIC Design Flow for Ultra-Broadband and Low-Noise mmWave TIAs Sultan Mohammad Ikram ¹ , Rupok Das ¹ , Atif Ali ¹ , Md. Shafin Hossain ¹ , Tanjil Shivan ¹ , Farabi Ibne Jamal ¹ ¹ Neural Semiconductor Limited, ² Ferdinand Braun Institut (FBH), ³ IHP - Leibniz Institut für innovative Mikroelektronik	EuMIC11-4 A 10 W, 4 - 20 GHz SPDT Switch Using Stacked Transistors in a 100-nm GaN-on-SiC Technology Dominik Wrana ¹ , Kristina Widmer ¹ , Ralf Rieger ¹ , Patrick Schuh ¹ , Ralf Leberer ¹ ¹ Hensoldt Sensors GmbH	EuMIC12-4 A 35.9-43 GHz 7.45-fs rms Jitter Subharmonically Injection-Locked Frequency Quadrupler Using Transformer-Coupled and SCA Techniques Po-Yuan Chen ¹ , Jia-Fen Tsai ¹ , Hong-Yeh Chang ¹ ¹ National Central University	EuMIC13-4 CMOS Gate Spacer Process Optimisation to Boost SOI Device RF/mmWave Performance Yinyin Zhang-Fu ¹ , Tadeu Mota-Frutoso ² , Luca Lucci ¹ , Blend Mohamad ¹ , Lucas Nysens ¹ , Melanie Dartois ¹ , Mickael Ribotta ¹ , Valérie Lapras ¹ , Krunoslav Romanjek ¹ , Jean-Pierre Raskin ¹ , Claire Fenouillet-Beranger ¹ ¹ CEA - LETI, ² CEA Leti, ³ UCLouvain - RFSOI - Belgium
18:10 – 18:30	EuMIC10-5 SKILLBridge-Driven Design Automation of a Gilbert-Cell Mixer in 130 nm SiGe BiCMOS Giulio Brancali ¹ , Giacomo Volini ¹ , Ethan Bernardini ¹ , Lorenzo Casciotti ¹ , Giacomo Schiavolini ¹ , Giulia Orecchini ¹ , Federico Alimenti ¹ ¹ University of Perugia, Italy	EuMIC11-5 An Integrated V-Band Self-Synchronous Rectifier for Simultaneous WPT and Backscattering Capabilities Including a Radiating Element Marco Badii ¹ , Giovanni Lasagni ¹ , Giacomo Schiavolini ¹ , Stefano Maddio ¹ , Giulio Brancali ¹ , Monica Righini ¹ , Federico Alimenti ¹ , Giovanni Collodi ¹ , Alessandro Cidronali ¹ ¹ University of Florence, ² University of Perugia	EuMIC12-5 A Study of Schottky Gate Diode Noise in 10 GHz GaN HEMT Oscillators Franjo Mikić ¹ , Pratap Tumkur Renukaswamy ¹ , Sriram Balamurali ¹ , Giovanni Mangraviti ¹ , Jan Craninckx ¹ , Piet Wambacq ¹ ¹ imec	

TUESDAY 08:30 – 10:30

ROOM	Room 1	Room 4	Room 6	Room 13
	EuMC01 Novel Guided-Wave Structures for Microwave Applications Chair: Ke Wu¹ Co-Chair: Maurizio Bozzi² ¹Polytechnique Montreal, ²University of Pavia	EuMC02 Millimeter-Wave Circuits and Modules Chair: Jae-Sung Rieh¹ Co-Chair: Jan Stake² ¹Korea University, ²Chalmers University of Technology	EuMC03 Sustainable Microwave and Communication Technologies Chair: Mahmoud Wagih¹ Co-Chair: Wolfgang Heinrich² ¹University of Glasgow, ²Ferdinand Braun Institut gGmbH (FBH), Leibniz Institut für Höchstfrequenztechnik	EuMIC14 Silicon Based Power Amplifiers Chair: Paolo Colantonio¹ Co-Chair: Alan Wong ¹University of Rome Tor Vergata
08:30 – 08:50	EuMC01-1 AFSIW Power Detector Module Based on a Slanted AFSIW to Microstrip Directional Coupler Antonin Arnaud¹, Anthony Ghiotto¹, Manuel Potereau¹, Laurent Carré², Samir Lagoug¹, Jean-Marie Pham¹ ¹Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ²ACTIA AEROSPACE	EuMC02-1 200 GHz Impedance Tuner with Quasi-Vertical GaAs Flip-Chip Varactor Diodes for Sub-Millimeter Wave Applications Louis Lukaczky¹, Junbo Liu¹, Christopher Moore¹, Matthew Bauwens², Arthur Lichtenberger¹, Robert M. Weikle¹, Scott Barker¹ ¹University of Virginia, ²Dominion MicroProbes Inc	EuMC03-1 Printed Microstrip Resonator for Dielectric Characterization of Sustainable Paper Substrates Duncan Platt¹, Darius Jakonis¹, Peter Ankarson¹, Ioannis Petsagkourakis¹, Robert Brooke¹, Mats Sandberg¹ ¹RISE AB	EuMIC14-1 A 40 %-PAE Power Amplifier with 2.35 W/mm² power density for Ka Band SATCOM in 55 nm SiGe BiCMOS Technology Rémi Martin¹, Sébastien Sadlo², Antoine Le Ravallec¹, Nathalie Deltemple², Anthony Ghiotto¹ ¹STMicroelectronics/Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France , ²STMicroelectronics, France, ³Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France
08:50 – 09:10	EuMC01-2 A Manufacturing-Compliant Approach to Versatile SIW Cavities Based on Epoxy-filled Non-plated Through Holes Roman Gamain¹, Anthony Ghiotto¹, Tifenn Martin², Maxime Mortada² ¹Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ²Thales SIX GTS	EuMC02-2 D-band GaN HEMT Load-Pull Performance Comparing TRL and mTRL Calibrations Jack Molles¹, Jerome Cheron¹, Nicholas Miller², Thomas Bonnen¹, Robert Jones¹, Cameron Evanovich¹, Bryan Bosworth¹, Andrew Beraro¹ ¹NIST, ²Michigan State Univeristy, ³Focus Micro-waves, Canada	EuMC03-2 Cradle-to-gate LCA of sub-6GHz RF Front End Module 5G for User Equipment Benjamin Vanhouche¹, Bertrand Parvais¹, Cedric Rolin² ¹Imec & VUB , ²IMEC (Leuven, Belgium)	EuMIC14-2 D-Band SiGe-Based GCPW PA with Transformer Balun Achieving 2.51% EVM under 128-QAM Luis Aruguipa Callata¹, Aniello Franzese¹, Volkan Erturk¹, Seyyid Dilek¹, Sandro Wenzel², Oliver Voß², Batuhan Sutbas¹, Corrado Carta¹ ¹IHP-Leibniz-Institut für innovative Mikroelektronik, ²Rohde & Schwarz GmbH
09:10 – 09:30	EuMC01-3 HTS microstrip directional coupler for broadband noise injection in a radio astronomy receiver Bahare Mohammadzade¹ ¹CSIRO	EuMC02-3 A Frequency Doubler Operating from 200 up to 250 GHz Optimized by Harmonic Termination Lukas Gebert¹, Benjamin Schoch¹, Thomas Ufschlag¹, Sébastien Chartier¹, Sandrine Wagner¹, Ingemar Kallfass¹ ¹Institute of Robust Power Semiconductor Systems (ILH) - University of Stuttgart, ²IAF-Fraunhofer: Fraunhofer Institute for Applied Solid-State Physics	EuMC03-3 Life Cycle Assessment and Circularity Strategies of GaN-on-SiC Substrates for RF Max Mosig¹, Benjamin Amann¹, Ruediger Quay¹ ¹Albert-Ludwigs-Universität Freiburg	EuMIC14-3 A 39 GHz Load-Insensitive Power Amplifier in 22nm CMOS-SOI with 23 dBm Output Power using a Compact Quadrature Hybrid Coupler Jonas Fritzin¹, Fabien Mesquita¹, Mustafa Özen¹, Magnus Nilsson¹, Olov Haapalahti¹ ¹Ericsson AB, Sweden
09:30 – 09:50	EuMC01-4 Loss Analysis and Resonance Suppression in a Multigap-Waveguide Liquid Crystal Phase Shifter at Ka-Band Marc Späth¹, Anagha Siby², Robin Neuder¹, Martin Schußler¹, Holger Maune¹, Alejandro Jiménez-Sáez¹ ¹Technical University of Darmstadt, ²Otto von Guericke University Magdeburg	EuMC02-4 A 220–290 GHz Differential PA in 130-nm SiGe BiCMOS with 12.6 dBm OP1dB and 5.4% PAE1dB Mete Kaan Lermi¹, Aniello Franzese², Seyyid Dilek², Franz Alwin Dürrwald³, Batuhan Sutbas¹, Mohamed Hussein Eissa⁴, Yasar Gurbuz¹, Corrado Carta² ¹Sabanci University, ²IHP-Leibniz-Institut für innovative Mikroelektronik, ³Technical University Dresden	EuMC03-4 A Multi-Kernel Convolutional Neural Network Digital Predistortion with Partitioned Inputs for Complexity Reduction Yudai Shiota¹, Hiroto Sakaki², Kenjiro Nishikawa¹ ¹Kagoshima University, ²Mitsubishi Electric Corporation	EuMIC14-4 A Compact 114–146GHz 2-Stacked Power Amplifier Achieving 14.9dBm Output Power in 28nm CMOS Tianzhu Huang¹, Alexander Schönecker¹, Kai Scheller¹, Albert-Marcel Schrotz¹, Robert Weigel¹, Norman Franchi¹ ¹FAU Erlangen-Nuremberg, Institute for Smart Electronics and Systems
09:50 – 10:10	EuMC01-5 A 2.59:1 Bandwidth Ridge Gap Waveguide for Space-Constrained 0.8λ - Pitch Switch Matrices Himanshu Sharma¹, Jonathan David Chisum¹ ¹University of Notre Dame, USA	EuMC02-5 2.7-Octave (50-330 GHz) Detector Module Using a Dielectric-Waveguide-Integrated RTD Yuma Kawamoto¹, Daniel C. Gallego², Santiago Gómez², Yosuke Nishida³, Kazuisao Tsuruda⁴, Tadao Nagatsuma⁴, Alejandro Rivera-Lavado¹, Guillermo Carpintero¹ ¹Leapwave Technologies SL, Universidad Carlos III de Madrid, ²Leapwave Technologies SL, ³ROHM Co., Ltd., ⁴The University of Tokyo	EuMC03-5 Reconfigurable RF Power Detector Using Aperture Time of a SAR ADC Prabhav Manchanda¹, Cristina Andrei², Ulrich L. Rohde¹, Matthias Rudolph² ¹Brandenburg Technical University Cottbus-Senftenberg, ²Brandenburg Technical University Cottbus, Cottbus, ³MIT Microsystems Technology Laboratories	EuMIC14-5 A Ku-Band CMOS Power Amplifier Using Stepwise Impedance Transformation for Systematic Matching Design Seungho Lee¹, Changkun Park¹ ¹Intelligent Microwave Systems Lab., Soongsil University, Republic of Korea
10:10 – 10:30		EuMC02-6 A D-BAND CMOS-BASED TRX 4-WAY BEAMFORMER MODULE for DIGITALLY MODULATED RADAR and COMMUNICATION Meng Li¹, Yang Zhang¹, Kamil Yavuz Kapusuz², Sam Lemey³, Miguel Glassee¹, Marc Bauduin¹, Claude Desset¹, Giuseppe Gramegna¹, Piet Wambacq¹ ¹IMEC, ²IMEC and Ghent University, ³Universiteit Gent, ⁴imec / Vrije Universiteit Brussel		

TUESDAY 08:50 – 10:30

ROOM

Room 17

EuMIC15

Integrated Millimeter-Wave Transmitters and Receivers

Chair: Ingmar Kallfass¹

Co-Chair: Frank E. van Vliet²

¹University of Stuttgart, ²TNO Defense, Safety and Security

08:30
–
08:50

EuMIC15-1

A K-Band 4-Element Phased-Array Receiver IC for 6G LEO SATCOM with an Interstage-Matched Cascode Gm-Boosted LNA

Jungro Lee¹, Eunhae Jo¹, Taehyeon Kim¹, Subin Lim¹, Sunwoo Kong², Seunghyun Jang², Hui Dong Lee², Bonghyuk Park², Jinseok Park², Seungchan Lee³

¹CHONNAM NATIONAL UNIVERSITY, ²Electronics and Telecommunications Research Institute (ETRI), ³Ulsan National Institute of Science and Technology (UNIST), Republic of Korea

08:50
–
09:10

EuMIC15-2

A Concurrent D-Band Radar and O-Band Lidar FMCW Receiver in 45-nm CMOS-Photonics

Alex Dinkelacker¹, Zachery Bloom¹, Xinhong Du¹, Rittik Mitra¹, Clint Schow¹, James F. Buckwalter¹

¹University of California, Santa Barbara (UCSB)

09:10
–
09:30

EuMIC15-3

A 220-GHz PA-Last Transmitter Using Layout-Customized High-fmax Transistors and Dual-Peak YZ-Embedded Network in 40-nm CMOS

Chun-Sheng Lin¹, Wei-Zhe Su¹, Chih-Hsueh Lin¹, Chun-Hsing Li¹

¹National Taiwan University

09:30
–
09:50

EuMIC15-4

Fully Integrated 250–310 GHz Transmitter and Receiver in an Advanced SiGe BiCMOS Technology

Ahmed Gadallah¹, Mesut Inac², Batuhan Sutbas², Dietmar Kissinger³, Mohamed Eissa⁴

¹Keysight Technologies, ²IHP - Leibniz-Institut für innovative Mikroelektronik, ³Ulm University, Germany

09:50
–
10:10

EuMIC15-5

A 220 to 330 GHz Dual-IF Receiver-Chip in 35-nm mHEMT Technology

Rainer Weber¹, Fabian Thome¹, Sandrine Wagner¹, Axel Tessmann¹, Arnulf Leuther¹

¹Fraunhofer IAF

TUESDAY 10:30 – 12:50

Exhibition Hall

EuMIC-PO1

EuMIC Poster Session

Chair: Kamal Samanta¹

Co-Chair: Priya Murugan KusalaKumari²

¹AMWT Ltd UK, ²University of Leeds

Best Poster Award
presented at the EuMIC
Closing Ceremony

EuMIC-PO1-1

Coupled TCAD and 3D ANSYS Thermal Simulation for Hotspot Analysis in GaN HEMTs

Mohammed BOUSSEKRI¹, Vaidehi Vijay Painter², Raphaël Sommet², Jean-Christophe Nallatamby², P. Vigneshwara Raja²

¹Xlim Laboratory, ²Indian Institute of Technology Dharwad

EuMIC-PO1-5

A 175-fs 56-GHz SSPLL with Double-Sampling Charge Pump and Divider-less Frequency Calibration

Patrick Kurth¹, Philipp Nickel¹, Chen-Chun Hsu¹, Marcel Runge¹, Urs Hecht¹, Philipp Scholz¹, Friedel Gerfers¹

¹Technical University Berlin

EuMIC-PO1-9

Optical Modulator Tuning with N-Path Filters in 45-nm CMOS Si-Photonics SOI Process

Zachery Bloom¹, Alex Dinkelacker¹, Xinhong Du¹, Xiangwei Kong¹, Clint Schow¹, James F. Buckwalter¹

¹University of California, Santa Barbara (UCSB)

EuMIC-PO1-13

Assessing the Environmental Impact of Semiconductor Technologies for mm-Wave Phased-Array Power Amplifiers

Pieter Cardinael¹, Benjamin Vanhouche², Cedric Rolin¹, Bertrand Parvais¹, Jean-Pierre Raskin¹

¹Université catholique de Louvain, ²imec – Vrije Universiteit Brussel, ³imec

EuMIC-PO1-2

0-110-GHz Characterization and Scalable Modeling of Integrated Thin-Film Resistors in RF Silicon Interposer Technology

Melik Yazici¹, Falk Korndörfer¹, Dirk J. Hagen¹, Dirk Wolansky¹, Yegappan Sethu¹, Mauricio Montanares¹, Farabi Ibne Jamal¹

¹IHP - Leibniz-Institut für innovative Mikroelektronik

EuMIC-PO1-6

A Highly Efficient Transmit Octupler in a 130 nm SiGe Technology for the Whole D-Band

Christian Bredendiek¹, Jan Schoepfel², Dominic Funke², Jan Wessel¹

¹Fraunhofer FHR (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR), ²Ruhr-University Bochum, Bochum, Germany, ³Fraunhofer FHR

EuMIC-PO1-10

A 6-bit Switched-Network Phase Shifter in 0.15-μm GaAs for Sub-GHz Band Applications

Haifeng Liu¹, Weidong Kong², Tengfei Gu¹, Benjing Guo¹

¹Hebei Semiconductor Research Institute, ²School of Electronic & Information Engineering, Harbin Institute of Technology, ³Chengdu University of Information Technology

EuMIC-PO1-14

Cryogenic RF Characterisation of FD-SOI Passive and Active Devices for LC-VCO Measurement-Based Design and Simulation

Victor Sabié-Pereira-Carpes¹, José Lugo-Alvarez², Maryline Bawedin³, Florence Sonnerat⁴, Cédric Durand⁵, Philippe Galy⁶, Manohiaina Galal-El-Dine⁷, Aurelie Bajoulet⁸, Benjamin Dormieu⁹, Benoit Legoux¹⁰, Franck Sabatier¹¹, Mikael Cassé¹²

¹CROMA - Grenoble INP & CEA-Leti - Université Grenoble Alpes, ²Université Grenoble Alpes - CEA-Leti, ³Grenoble INP - CROMA, ⁴STMicroelectronics

EuMIC-PO1-3

A Bias-Tunable GaAs Schottky Diode Limiter with Dynamically Adjustable P1dB

Yun-seong An¹, Gwanghyeon Jeong¹, Jaehun Lee¹, Laurence Jeon¹, Dong-Ho Lee¹

¹Hanbat National University, ²RFcore

EuMIC-PO1-7

A pair of 170-250 GHz up-converter mixer with enhanced Psat and down-converter mixer with broad IF bandwidth

Yu Yan¹, Frida Strömbeck¹, Lars Svensson¹, Herbert Zirath¹

¹Chalmers University of Technology

EuMIC-PO1-11

A 9-17 GHz Symmetric CMOS DPDT Switch with High Power Capability and Low Delay Difference

Songwon Seo¹, Jaehyun Kwon¹, Seungjong Moon¹, Changkun Park¹

¹Intelligent Microwave Systems Lab., Soongsil University, Republic of Korea

EuMIC-PO1-4

A 3.6-57.5-GHz Variable Gain Distributed Amplifier in 65-nm CMOS Process for High-Speed and 6G Multi-Band Receiver Applications

Jun-Han Lin¹, Yunshan Wang¹, Hwei Wang¹

¹National Taiwan University

EuMIC-PO1-8

Automated Combiner Design Strategy for Q-band MMIC Power Amplifier

Sergio Lopez de Pablo¹, Jordi Verdú¹, Pedro de Paco¹

¹Universitat Autònoma de Barcelona

EuMIC-PO1-12

A Compact Ku-Band Broadband GaAs Power Amplifier Using Multi-Stacked FET

li hou¹

¹Southeast University

TUESDAY 11:10 – 12:50

ROOM	Room 13	Room 17
	EuMIC16 Advanced Techniques for Linear PA Design Chair: Kevin Morris ¹ Co-Chair: Pere L. Gilabert ² ¹ University of Leeds, ² Universitat Politècnica de Catalunya	EuMIC17 Millimeter-Wave Mixers and Power Detectors Chair: Sébastien Chartier ¹ Co-Chair: Piyush Kaul ² ¹ IAF-Fraunhofer: Fraunhofer Institute for Applied Solid-State Physics, ² Eindhoven University of Technology - TU/e
11:10 – 11:30	EuMIC16-1 Beam-Dependent Linearization of Active Phased Arrays Using Artificial Neural Networks Ali Asghar Sharifi ¹ , Gabriel Montoro ¹ , Pere L. Gilabert ¹ ¹ Universitat Politècnica de Catalunya (UPC-Barcelona Tech.)	EuMIC17-1 A Compact and Efficient Low-Voltage D-Band Darlington Up-Conversion Mixer MARZIE MOLLAALIPOUR ¹ ¹ Chalmers University of Technology
11:30 – 11:50	EuMIC16-2 Performance Optimization of a GaAs HBT MMIC Doherty Power Amplifier via Active Bias Power Cell Francesco Manni ¹ , Chiara Ramella ² , Rocco Giofrè ¹ , Corrado Florian ¹ , Alberto Maria Angelotti ¹ , Gian Piero Gibiino ¹ , Marco Pirola ² , Paolo Colantonio ¹ ¹ University of Roma "Tor Vergata", ² Politecnico di Torino, ³ University of Bologna	EuMIC17-2 Modified Complementary Ring Mixer Driven by a Single-Ended LO with 48 dB LO-RF Isolation in 22-nm FD-SOI CMOS Adrian Arnold ¹ , Muh-Dey Wei ² , Renato Negra ¹ ¹ RWTH Aachen University, Germany
11:50 – 12:10	EuMIC16-3 Comparison of Low-Voltage GaN-on-Si HEMT Stacked PAs for the FR3 bands with and without Active Second Harmonic Injection Konstantinos Mimis ¹ , Chris Clifton ¹ , Atsushi Yamaguchi ¹ , Kazumasa Kohama ¹ , Masayuki Shimada ¹ ¹ Sony Europe Limited, ² Sony Semiconductor Solutions Corporation	EuMIC17-3 Zero-IF Capable Single-Balanced HEMT Mixers with 2 ± 2 dB Conversion Loss from 110 to 220 GHz Patrick Umbach ¹ , Eric Sigle ¹ , Fabian Thome ¹ , Arnulf Leuther ¹ , Rüdiger Quay ¹ ¹ Fraunhofer IAF
12:10 – 12:30	EuMIC16-4 Efficiency-Linearity Trade-Off in Envelope Tracking PAs for Integrated Sensing and Communication Amirmohammad Shahghasi ¹ , Gabriel Montoro ¹ , Pere Lluís Gilabert Pinal ¹ ¹ Universitat Politècnica de Catalunya (UPC-Barcelona Tech.), Spain	EuMIC17-4 120-/160-GHz High-Dynamic-Range Power Detectors in 130-nm SiGe BiCMOS Arda Ozdemir ¹ , Volkan Erturk ² , Seyyid Dilek ² , Asif Ali Mir ¹ , Batuhan Sutbas ² , Corrado Carta ¹ ¹ Massachusetts Institute of Technology, ² IHP – Leibniz Institute for High Performance Microelectronics
12:30 – 12:50	EuMIC16-5 Effect on Performance of Embedded Drivers in a Sequential LMBA for FR1 5G NR Giulia Bartolotti ¹ , Angela Ciutat ² , Gabriel Montoro ² , Anna Piacibello ¹ , Pere L. Gilabert ¹ , Vittorio Camarchia ¹ ¹ Politecnico di Torino, Italy, ² Universitat Politècnica de Catalunya (UPC)	EuMIC17-5 A Broadband Antenna-Coupled Terahertz Power Detector in a 12 nm FinFET CMOS Technology Hamadi Sadkaoui ¹ , Marcel Andree ¹ , Tasnim Ben Mansour ¹ , Ullrich R. Pfeiffer ¹ ¹ University of Wuppertal

TUESDAY 11:10 – 12:50

ROOM

Room 7 - 12

EuMW01

EuMW/EuMC Opening

11:10 – 11:15 Welcome Address: Opening of the European Microwave Week 2026

Stephen Harman¹¹EuMW 2026 General Chair

11:15 – 11:25 EuMA Welcome Address

Frank van den Bogaart¹¹EuMA President

11:25 – 11:30 Greetings from IEEE MTT-S President

Anding Zhu (TBC)¹¹University College Dublin

11:30 – 11:35 Greetings from the EuMW 2026 Platinum Sponsor

Speaker TBD

11:35 – 11:45 Awards Ceremony – EuMA Awards

Frank E. van Vliet¹¹EuMA Awards Committee Chair

11:45 – 12:15 Building-edge Additive Manufacturing Technologies: 3D Printing Landscape for Next Generation Radio Frequency Applications

Stepan Lucyszyn¹¹Imperial College London, London, UK

Over the past decade, Prof. Lucyszyn and his team have been pioneering 3D printed components, circuits and subsystems that can operate in the microwave-to-terahertz spectrum for lightweight applications that include low-cost communications, radar and sensor systems. This talk will explore some of the work undertaken at Imperial College London, highlighting advantages and current challenges for commercial exploitation in next generation applications.

Prof. Lucyszyn has published 18 journal papers and six invited international conference papers relating to this work; the first article kick-started the recent innovation of 3D-printed rectangular waveguides. In 2022, for his work on 3D printing, Prof. Lucyszyn (and his team at Imperial College

London) won Junkosha's inaugural Technology Innovator of the Year Award for the Microwave and Millimeter Wave category.

12:15 – 12:45 The Current State of the Art in Waveguide Technology and Trends in Application Requirements in the Near to Mid-term

Sam Brokenshire¹¹Flann Microwave Ltd

Flann Microwave Ltd has been at the forefront of performance in passive waveguide instruments for the last 70 years and represents the best of modern waveguide design and manufacturing. This presentation will explore the trends in waveguide applications and the current state of the art in waveguide technology from a commercial manufacturer's perspective and show how this is likely to develop in the near- to mid-term. Key considerations will be: ongoing trends for increasing frequency; increasing specific power; and challenging environmental conditions.

12:45 – 12:50 Closing Remarks

Nick Ridler¹¹EuMC Chair

TUESDAY 14:10 – 16:50

Exhibition Hall

EuMC-PO1

EuMC Poster Session 1

Chair: Kamal Samanta¹

Co-Chair: Xiaochen Yu²

¹AMWT Ltd UK, ²University of Liverpool

Best Poster Award
presented at the EuMC
Closing Ceremony

EuMC-PO1-1

A K-Band Four-Element Eight-Beam Phased-Array Transmitter Front-End With GaN PA for LEO Satellite Communication Applications

Yuan Tao¹, Hai Xiahou¹, Xianzhe Xu¹, Kun Yan¹, Daqun Yu¹, Wenzhou Ruan¹

¹Nanjing Research Institute of Electronic Technology

EuMC-PO1-5

A 16.8–20.2-GHz FMCW Frequency Synthesizer with Auxiliary Amplifiers and Switch Isolation for Enhanced Chirp Linearity

Jincheng Ni¹, Zhipeng Wang², Zongming Duan²

¹School of Electronic Information Engineering, Anhui University, China, ²Anhui University

EuMC-PO1-9

Reconfigurable Dual-Band or Single-Band GNSS Low-Noise Amplifier Module with Out-of-Band Rejection for Aerospace Applications

Ramon Lopez La Valle¹

¹SENYT-UNLP

EuMC-PO1-13

Flexible, Polarization-Insensitive Metamaterial Absorber Based on Resistive Ink with Tunable Resonance Across the S- to Ka-Bands

Lamyà IBILI¹, Thierry Lacrevez¹, Grégory Houzet¹, William Feuray², Nicolas Corrao³, Gaël Depres³, Tân-Phu Vuong⁴

¹Centre de radiofréquences, optique et micronanoélectronique des Alpes (CROMA), UMR-CNRS 5130, ²KNDS Ammo France, ³Fedrigoni

EuMC-PO1-2

Experimental Verification of Power Consumption Reduction in Power Amplifiers Using 5G NR SSB Gate Bias Control

Yuki Takagi¹, Yuta Nakamoto¹, Takashi Hirakawa¹, Yoshichika Ohta¹

¹SoftBank Corp.

EuMC-PO1-6

Analysis of Reconfigurability of Coupled Dipoles Active Frequency-Selective Surface Based on GaAs MMIC

Julio Sánchez-Paredes¹, Enrique Márquez-Segura¹

¹Telecommunication Research Institute (TELMA), Universidad de Málaga

EuMC-PO1-10

Low-Loss Filtering Phase Shifter with a 97% Passband Alignment Rate

Xin Fang¹, Xiaoyu Wei¹, Jin Cheng¹, Zhentian Wu¹, Haoran Zhu¹, Kaikun Niu¹

¹Anhui University

EuMC-PO1-14

Ti₃C₂T_x MXene-Coated 3D-Printed Waveguide Bandpass Filter in X-Band

Anne Lehoux¹, Zahra Sarpanah Sourkoui¹, Jamal Alhourani¹, Yury Gogotsi¹, Mohammad Zarifi¹

¹The University of British Columbia, ²A.J. Drexel Nanomaterials Institute and Department of Materials Science and Engineering, Drexel University, ³The University of British Columbia, Canada

EuMC-PO1-3

A 2.59GHz Oscillator with β -Ga2O3 MESFET Fabricated by Mist CVD Method

Hikaru Ikeda¹, Yuji Ando², Hidemasa Takahashi², Ryutaro Makisako², Takeru Wakamatsu², Tetsuzo Ueda², Jun Suda², Katsuhisa Tanaka², Shizuo Fujita², Hidetaka Sugaya²

¹Kyoto University, ²Nagoya University, ³Panasonic Holdings Corporation

EuMC-PO1-7

60 GHz Liquid Crystal Polymer Bendable Band-Pass Filter

Wei-Ting Lee¹, Ho-Tsung Hung¹, Chu-Yu Chen², Sin-Siang Wang¹

¹Flexium Interconnect Inc., ²National University of Tainan

EuMC-PO1-11

Seven-State Reconfigurable Intelligent Surface at X-band Using Shunt-Stub Varactor Tuning

Kaan Aktas¹, Martin Petek², Enrico Tolin¹, Achim Bahr¹, Francesca Vipiana²

¹IMST GmbH, ²Politecnico di Torino

EuMC-PO1-15

Four Types of Asymmetric Microstrip Line Unit Cell Structures for Topological Waveguides

Soma Nagano¹, Tsutomu Nagayama¹, Seiji Fukushima¹, Toshio Watanabe¹

¹Kagoshima University

EuMC-PO1-4

Formula-Based Exact Design of Via-Less Quadruplet Filter With a Pair of Transmission Zeros

Sanghoon Jeong¹, Juseop Lee¹

¹Korea University

EuMC-PO1-8

LTCC Ridge Waveguide Filters Design Method Based on Coarse Modeling and ASM

Rousslan Goulouev¹

¹Mini-Circuits

EuMC-PO1-12

A Compact Planar Balun for High-Power RF Push-Pull Amplifiers in MRI Transmit Chains

Ouadie Toujjer¹, Quang Minh Nguyen¹, Niklas Schwab¹, Norman Franchi¹, Georg Fischer¹

¹Friedrich-Alexander-Universität Erlangen-Nürnberg

EuMC-PO1-16

Ambient RF Energy Harvesting at 5.8 GHz Using a Metasurface Lens for Self-Powered IoT Devices

Minh Thuy Le¹, Quang Chung Tran¹, Nam Ha-Van², Quang Trung Luu¹, Hoa Le-Minh³, Quoc Cuong Nguyen¹, Kien Nguyen¹

¹Hanoi University of Science and Technology, ²School of Electrical Engineering, Aalto University, ³Université Paris-Saclay, ⁴Northumbria University, ⁵Chiba University

TUESDAY 14:10 – 16:10

ROOM	Room 16	Room 1	Room 4	Room 6
	EuMC/EuMIC01 Special Session on Sustainability in Microwave Systems – Materials, Carbon Footprint, and Social Impact Chair: Wolfgang Heinrich¹ Co-Chair: Andreas Wentzel¹ ¹Ferdinand Braun Institut gGmbH (FBH)	EuMC04 Advanced Non-Reciprocal Technologies for RF and Microwave Systems Chair: Wenguan Che¹ Co-Chair: Anthony Ghiotto² ¹South China University of Technology, ²University of Bordeaux	EuMC05 Terahertz Antennas Chair: Withawat Withayachumnankul¹ Co-Chair: Joachim Oberhammer ¹The University of Adelaide	EuMC06 Advances in Quantum Technologies and Educational Initiatives Chair: Manoj Stanley¹ Co-Chair: Ulf Johannsen² ¹National Physical Laboratory (NPL), ²Eindhoven University of Technology
14:10 – 14:30	EuMC/EuMIC01-01 Optimizing Mobile Network Efficiency: A Combined AI and SoC Approach for Sustained Quality of Experience Mirel Pehadzić¹ ¹NOKIA	EuMC04-1 RF Co-designed Nonreciprocal Filtering Hybrid With Continuously Tunable Frequency and Arbitrary Power Division Ratio Using Spatiotemporal Modulation Girdhari Chaudhary¹, Keunhoe Lee¹, Suyeon Kim¹, Palaystint Thorng¹, Jongsik Lim², Yongchae Jeong¹ ¹Jeonbuk National University, South Korea, ²Soon-chunhyang University, South Korea	EuMC05-1 Wideband, High Gain D-Band Glass Antenna via LIDE 3D Structuring and 3D-Printed Mask for Selective Metallization Elizabeth Bekker¹, Michael Lootze², Yiyang Bao³, David Reichenbacher¹, Luca Valenziano¹, Malte Schulz-Ruhtenberg¹, Thomas Zwick¹ ¹Karlsruhe Institute of Technology, ²LPKF Laser& Electronics AG, ³Institute of Microstructure Technology	EuMC06-1 Interlaboratory Study of Cryogenic On-Wafer S Parameter Measurements of CPW Microwave Devices Lewis Manning¹, Daniel Stokes¹, Andrin Bagus², Fabian Thome¹, Felix Heinz², Francesco Fortunato³, Helena Rodilla⁴, Jan Stake⁵, Nick Ridler¹, Xiaobang Shang¹ ¹National Physical Laboratory (NPL), UK, ²Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics, ³Chalmers University of Technology
14:30 – 14:50	EuMC/EuMIC01-02 Environmental and Social Impact Assessment of an Envisaged FR3-band Base Station Emma Complido¹ ¹CEA Leti, Univ. Grenoble Alpes, F 38000 Grenoble, France	EuMC04-2 Design of Silicon-Based MEMS Compact Microstrip Circulators with Interdigital-Capacitor-Enhanced Slow-Wave Structures Zichen Guo¹, Zhiyu Wang¹, Xinyu Wang¹, Annan Xu¹, Shanfu Zhou¹, Minyi Yang¹, Xi Guo¹, Jiongiong Mo¹, Jiarui Liu¹, Faxin Yu¹ ¹Zhejiang University	EuMC05-2 Highly-Efficient On-Chip Bow-Tie Antennas Using Localized Backside Etching at 220–320 GHz Raqibul Hasan¹, Seyyid Dilek¹, Aniello Franzese¹, Uwe Maaß², Batuhan Sutbas¹, Dietmar Kissinger¹, Corrado Carta³ ¹IHP – Leibniz Institute for High Performance Microelectronics, ²Fraunhofer IZM, Berlin, ³Universität Ulm	EuMC06-2 Digital Predistortion for Flux Control of Tunable Superconducting Qubits Dharun Venkateswaran¹, Felice Francesco Tafuri¹, Alisa Danilenko¹, Philip Krantz² ¹Keysight Technologies Inc., USA
14:50 – 15:10	EuMC/EuMIC01-03 Sustainable Microwave Materials: from LCAs to Advanced Packaging Mahmoud Wagih¹ ¹University of Glasgow	EuMC04-3 Design and Measurement of a 16 GHz SMD Self-Biased Ferrite Circulator Vincent Olivier¹, Vincent Laur², Norbert Parker-Soues³, Laurent Roussel¹, Richard Lebourgeois³ ¹INOVEOS SAS, ²LABSTICC-UBO, ³Thales Land & Air System, ⁴Thales Research & Technology (TRT)	EuMC05-3 6G D-band LTCC Compact AiP With 2×2 Array Antenna Natsumi Minamitani¹, Saneaki Ariumi¹, Kaoru Sudo¹, Kazushige Sato¹, Kamil Yavuz Kapusuz², Miguel Glassee¹, Hans Suyts³, Hisao Hayafuji¹ ¹Murata Manufacturing Co., Ltd., ²imec	EuMC06-3 An Embedded Microwave Structure for Scalable Trapped Ion Quantum Computing Georg Frederik Riemschneider¹, Nico Weiss¹, Marvin Jäger¹, Omar Jabl¹, Cheng Yang¹, Alexander Kölpin¹ ¹Institute of High-Frequency Technology, Hamburg University of Technology, ²Institute of Electromagnetic Theory, Hamburg University of Technology
15:10 – 15:30	EuMC/EuMIC01-04 Carbon Footprint of an InP HBT Process Tuğana Aslan¹ ¹Research Fab Microelectronics Germany FMD	EuMC04-4 Adapted Modeling of a Microstrip Wideband Circulator (5–7,5 GHz) Design on an All-Ferrite Substrate Marc-Antoine Francisci¹, Thierry Monédière¹, Jehison Leon-Valdes¹, Damien Passerieux¹, Laure Huitema¹ ¹Xlim - UMR 7252 - CNRS- Limoges University	EuMC05-4 Design of Antenna-Coupled Detector Arrays in BiCMOS for High Resolution Passive Terahertz Cameras Martijn Hoogelander¹, Tom Geerling¹, Nuria Llombart Juan¹, Marco Spirito¹, Corrado Carta², Maria Alonso del Pino¹ ¹Delft University of Technology, ²IHP – Leibniz-Institut für innovative Mikroelektronik	EuMC06-4 Remote-Accessible Vector Network Analyzer Measurement System for RF/Microwave Education Maksim Kuznetsov¹, David Reid¹, Alex Doni¹, Iram Shahzadi¹, Tim Drysdale¹, Symon K. Podilchak¹ ¹The University of Edinburgh
15:30 – 15:50	EuMC/EuMIC01-05 Carbon Footprint and Critical Materials in RF Semiconductors Benjamin Vanhouche¹, Bertrand Parvais², Ayesha Noor¹, Cedric Rolin¹ ¹IMEC, ²imec & VUB, ³imec	EuMC04-5 New Concept of Dual-Band Microstrip Ferrite Circulator Based On Wideband Configuration Vincent Olivier¹, Thierry Monédière², Laure Huitema² ¹INOVEOS SAS, ²XLIM - CNRS - Université de Limoges	EuMC05-5 A 3x3 545 GHz Lensless Digitally Controlled Beam Steering Radiation Source Array in 28nm CMOS Sumeeet Londhe¹, Eran Socher¹ ¹Tel Aviv University	EuMC06-5 Teaching Wireless Power Transfer through Competitive Challenges at Bachelor level Simon Hemour¹, Pablo Pérez-Nicoli², Damien Blanchard³, Sarah Reverdy⁴, Jean Tomas⁵ ¹Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, France, ²Universidad de la República, ³Univ. Bordeaux, IUT de Bordeaux, ⁴CAP ELENA (Univ-Bordeaux), Lycée Marcel Dassault, Région académique de Nouvelle Aquitaine
15:50 – 16:10			EuMC05-6 Phase Profile Optimization for High Gain-Bandwidth Transmitter-ray at 300 GHz Marc Zhan¹, Bilal Ouardi¹, David Demmer¹, Antonio Clemente¹ ¹CEA - LETI	

TUESDAY 14:10 – 16:10

ROOM	Room 13	Room 17
	EuMC07 AI, 3D, Miniaturized, and Quantum Technologies for Microwave Filters Chair: Miguel Sánchez-Soriano¹ Co-Chair: Pierre Blondy² ¹University of Alicante, ²Xlim - UMR 7252 - CNRS- Limoges University	EuMIC18 Recent Advances in III/V Amplifiers Chair: Corrado Carta¹ Co-Chair: Vojkan Vidojkovic² ¹IHP Microelectronics, ²Eindhoven Univeristy of Technology
14:10 – 14:30	EuMC07-1 Reconfigurability of SIW Bandpass Filters Using Switchable Liquid-Metal-Based Iris Windows Raül García¹, Angela Coves Soler¹, Miguel Sánchez-Soriano², Alejandro L. Borja³, Dario Herraiz², Vicente E. Boria⁴ ¹Universidad Miguel Hernández de Elche, ²University of Alicante, ³Universidad de Castilla-La Mancha, ⁴Universitat Politècnica de València	EuMIC18-1 Switched Quadrature GaN X-band Power Amplifier for Circularly Polarised Transmission Laura Margot van Vliet¹, David Niven², Andrew Jones², Melissa Gorman³, Simon J. Mahon⁴, Frank E. van Vliet⁵ ¹TU Delft, ²Macquarie University, ³University of Twente
14:30 – 14:50	EuMC07-2 A Super Miniaturized High Quality-factor Double-poles Supercavity-Mode SIW Filter Zahra Manzoor¹, Dimitrios Peroulis¹ ¹Purdue University, West Lafayette	EuMIC18-2 A Q-band Analog Linearizer MMIC with Independent Third-Order Intermodulation Control and Tunable Delay Elements Burak Güven Özat¹, Mathias Pius Scharpf¹, Marc Günter¹, Mark Johannes Neff¹, Benjamin Schoch¹, Stefan Koch², Ingmar Kallfass³ ¹Institute of Robust Power Semiconductor Systems (ILH), University of Stuttgart, ²Tesat Spacecom GmbH & Co. KG
14:50 – 15:10	EuMC07-3 Highly Flexible S-Band and Ku-Band Reconfigurable Filter MMICs Suitable for Microstrip Monolithic Implementation Charles Campbell¹ ¹Qorvo (USA)	EuMIC18-3 A GaN Sensor for on-MMIC DC Current Monitoring Grace Gomez¹, Taylor Barton¹ ¹University of Colorado Boulder
15:10 – 15:30	EuMC07-4 Superconducting MMIC Bandpass/Bandstop Diplexer Using a Simplified Design Procedure Abdulrahman Widaa¹, Christoph Kissling¹, Oliver Kieler¹, Michael Haas¹, Johannes Kohlmann¹, Mark Bieler¹ ¹Physikalisch-Technische Bundesanstalt	EuMIC18-4 Extended W-band Low-Noise Amplifiers in 35-nm Metamorphic High-Electron-Mobility Transistor Technology Felix Heinz¹, Arnulf Leuther¹, Fabian Thome¹ ¹Fraunhofer Institute for Applied Solid State Physics IAF
15:30 – 15:50	EuMC07-5 Inkjet-Printed Lumped-Element Bandpass Filter Using 3D Integrated Passive Devices Carlos Pons¹, Berkay Dogan², Santiago Cogollos Borrás¹, Vicente E. Boria³, Marco Guglielmi¹, Dimitra Psychogiou¹ ¹Instituto de Telecomunicaciones y Aplicaciones Multimedia, Universitat Politècnica de València, ²School of Engineering, University College Cork, Cork, T12 K8AF, Ireland, Tyndall National Institute, Cork, T12 R5CP, Ireland	EuMIC18-5 A Compact D-Band GaN LNA MMIC for Monolithic Transceiver Integration Thomas Zieciak¹, Philipp Neiningner¹, Christian Friesicke¹, Peter Brückner¹, Rüdiger Quay¹ ¹Fraunhofer Institute for Applied Solid State Physics IAF
15:50 – 16:10	EuMC07-6 Vector Graphics Driven Deep Learning Framework for mmWave Bandpass Filter Design Abdelrahman Elbadrawy¹, Chandan Roy¹, Ming Jian¹ ¹Huawei Technologies Canada Co.	EuMIC18-6 Cryogenic Characterization of a Ka-Band GaN-Based LNA at Ka-band Frequencies Jiun-Jie Huang¹, Heng-Tung Hsu², Yi-Fan Tsao¹, Yi-Chia Cheng¹ ¹National Yang Ming Chiao Tung University, ²National Yang Ming Chiao-Tung University

TUESDAY 16:50 – 18:30

ROOM	Room 1	Room 4	Room 13	Room 17
	EuMC08 3D Passive Components and Non-Planar Microwave Structures Chair: Ariana L. C. Serrano ¹ Co-Chair: Nicolò Delmonte ² ¹ Universidade de Sao Paulo, ² Dept. of Electrical, Computer and Biomedical Engineering, University of Pavia	EuMC09 Millimeter-Wave and Terahertz Devices Chair: Withawat Withayachumnankul ¹ Co-Chair: Jan Stake ² ¹ The University of Adelaide, ² Chalmers University of Technology	EuMC10 Non-Planar Filters Chair: Yi Wang ¹ Co-Chair: Eric Rius ² ¹ University of Birmingham, ² Université de Brest	EuMC11 Modeling of Propagation Structures and Transitions Chair: Luca Perregini ¹ Co-Chair: Cristiano Tomassoni ² ¹ University of Pavia, ² University of Perugia
16:50 – 17:10	EuMC08-1 Linear-to-Circular Polarization Converter for D-Band Circular Dielectric Waveguides Debrina Dutta ¹ , Abhijit Pal ¹ , Martin Schneider ¹ ¹ Universität Bremen	EuMC09-1 Sub-1-dB-Insertion-Loss Millimetre-Wave SPST Switch Based on Quasi-1D Metadevices HAORU XING ¹ , HAORU XING ¹ ¹ Nanyang Technological University	EuMC10-1 Making Brick-Wall Bandstop Filters A Practical Reality Simone Bastioli, Richard Snyder ¹ INDUSTRIAL KEYNOTE ¹ RS Microwave	EuMC11-1 Semi-Analytical Modeling of the Cutoff Frequency in Rectangular Waveguides with Rounded Corners Samir Lagoug ¹ , Anthony Ghiotto ¹ , Eric Kerherve ¹ ¹ Univ.Bordeaux, Bordeaux INP, CNRS, IMS, UMR 5218, France
17:10 – 17:30	EuMC08-2 A Compact High-Directivity Dual-Directional Coupler for 40–67 GHz Applications Tingting Sun ¹ , Fuyao Song ¹ , Guanghua Shi ¹ , Zhen Wang ¹ , Cheng Guo ¹ ¹ Xi'an Jiaotong University, ² The 13th Research Institute of China Electronics Technology Group Corporation	EuMC09-2 A Pad-Integrated Broadband THz 1 to 4 T-Marchand Hybrid Balun-Splitter Using Asymmetric Coupled Lines Xinpeng Du ¹ , Marcel Andree ¹ , Ullrich R. Pfeiffer ¹ ¹ University of Wuppertal	EuMC10-2 Wideband Coaxial Bandpass Stub Filters Based on an Original Interconnection Juan-Pablo Guzman Velez ¹ , Eric Rius ² , Jessica Bénédicte ¹ , Jean François Favennec ¹ ¹ Lab-STICC UBO, ² Université de Brest, ³ Lab-STICC University of Brest, ⁴ Lab-STICC/Bretagne INP	EuMC11-2 Investigation and Modelling of Cross-Talk in Multi Polymer Microwave Fiber Communication Systems Stefan Wögerbauer ¹ , Lukas Ebner ² , Helmut Paulitsch ¹ , Michael Ernst Gadringer ¹ ¹ Graz University of Technology
17:30 – 17:50	EuMC08-3 A Phase-Matched Monolithic Orthomode Transducer via Stereolithography 3D Printing Giacomo Giannetti ¹ ¹ Max Planck Institute for Physics	EuMC09-3 A Micromachined Silicon Carbide On-wafer Probe in the WR-1.5 Waveguide Band Junbo Liu ¹ , Matthew Bauwens ² , Daniel Lobo ² , Michael Cyberek ¹ , Robert M. Weikle ¹ , Arthur Lichtenberger ¹ , Scott Barker ¹ ¹ University of Virginia, ² Dominion Microprobes, Inc	EuMC10-3 Inkjet-Printed 3D Circular Cavity Resonator-Based Bandpass Filters Deepal Patil ¹ , Dimitra Psychogiou ² ¹ Tyndall National Institute, ² Tyndall National Institute, University College Cork	EuMC11-3 Dielectric Waveguide Transition Design Using Non-Parametric Shape Optimization Archibald Wishard Rohde ¹ , Tinus Stander ¹ , Theunis S. Beukman ¹ ¹ University of Pretoria, ² Dassault Systèmes South Africa (Pty) Ltd
17:50 – 18:10	EuMC08-4 Key Building Block Design for Dual-Band Dual Linear or Circular Polarized Combiner Applications Uwe Rosenberg ¹ , Ralf Beyer ¹ , Thomas Sieverding ¹ , Peter Kneissl ¹ ¹ Mician Global Engineering GbR, ² ESA Microwave GmbH	EuMC09-4 Broadband Metallized 3D Printed THz Conical Horn Antenna Alejandro Garcia-Tejero ¹ , Rico Weber ¹ , Seymen Yolcu ¹ , Dmitriy Ievlev ¹ , Jerzy Kowalewski ¹ , Dirk Götzl ¹ , Marco Buhmann ¹ , Francesco Merli ¹ ¹ HUBER+SUHNER AG	EuMC10-4 Miniaturization Strategies for UHF Combine Filters via Folded 3D-Printed Non-Canonical Resonators Ramy Bouderbail ¹ , Gines Garcia-Contreras ¹ , Stefano Sirci ¹ , Esteban Menargues ¹ , Cristiano Tomassoni ¹ , Maria Garcia-Vigueras ¹ ¹ Univ. Rennes, INSA Rennes, CNRS, IETR-UMR 6164, ² Swisstol2 SA, ³ Department of Engineering, University of Perugia	EuMC11-4 Crosstalk Suppression using Twisted-Pair Differential Lines in CMOS Technology for Enhanced Signal Integrity Maksim Kuznetsov ¹ , Qifeng Shen ¹ , Jonathan Johnstone ¹ , Yunhao Chen ¹ , Symon K. Podlichak ¹ , Brian Frank ¹ , Alois Freundorfer ¹ , Yahia Antar ¹ ¹ The University of Edinburgh, ² Queen's University, ³ The Royal Military College of Canada
18:10 – 18:30	EuMC08-5 Design of A Double-Ridge-Waveguide Magic-T for Ultra-Wideband Application Peng Liu ¹ ¹ Institute of Electronic Engineering of CAEP	EuMC09-5 Flexible metal/dielectric waveguides in D-band Prakash Gyawali ¹ , Alexandre Renau ¹ , Ronan Cranny ² , Julien Logette ¹ , Stéphanie Géas ¹ , Antoine Baudin ¹ , Yanis Charif ¹ , Bruno Giacomini ² , Ludovic Burgnies ¹ , Pascal Szriftgiser ¹ , Guillaume Ducournau ¹ ¹ Univ. Lille, ² Axon Cable	EuMC10-5 Cascaded Quadruplet & Box Configuration Filters Exhibiting All Positively Coupled Resonators Wael Fathelbab ¹ ¹ Northrop Grumman Corporation	

TUESDAY 16:50 – 18:30

ROOM Room 8 - 11

EuMIC19

EuMIC Closing

16:50 Session Welcome

16:55 Tudor Williams¹
Filtronic

16:55 Microwave Transformers – A Tale of Different RF Cultures

17:25 Steve Cripps¹
Cardiff University
Impedance transformation, and passive circuits that achieve it, is the top, bottom, and sides of high frequency engineering. This talk identifies three RF “cultures” that take a different approach to circuit design, and considers the question of whether more cross-fertilisation could, and should, have taken place between these separate communities. Most notably, the transformer appears to have come back into favour in millimeter-wave MMIC design but is largely absent in lower GHz hybrids and MMICs. But as the frequency drops down into the “VHF” and HF range, transformers become ubiquitous due mainly to the availability of magnetic materials such as ferrites. A quantitative comparison of the three cultural approaches to impedance matching is instructive, and primarily raises the status of the “imperfect” transformer as a useful matching element across the entire RF spectrum.

17:25 To Measure Is to Know: Innovations in Microwave Instrumentation

17:55 Jan Verspecht¹
Keysight Technologies Inc
As wireless communications, radar, and high-speed digital systems continue to push the limits of frequency, bandwidth, and integration, microwave instrumentation must evolve at an unprecedented pace. This keynote explores the innovations that are redefining how engineers measure, understand, and ultimately design modern RF and microwave systems. We begin with the need for speed: addressing ever-increasing carrier frequencies and signal bandwidths across the measurement ecosystem. Advances in network analysis, spectrum analysis, waveform generation, power measurement, and time-domain instrumentation have enabled characterization of signals and devices that were simply inaccessible a decade ago. Speed alone, however, is not enough. As components become more complex and highly integrated, gaining consistent insight across traditionally separate measurement domains has become a central challenge. This has driven a convergence of capabilities once spread across multiple instruments,

simplifying characterization while revealing deeper system behavior. We highlight innovations such as modulation-aware network analysis and multi-channel spectrum analyzers capable of true stimulus-response measurements. Finally, we turn to realism and design relevance: load-pull measurements under modulated operating conditions and the extraction of measurement-based behavioral models that directly link instrumentation to simulation. These capabilities, once confined to research laboratories, are rapidly becoming industrial tools—closing the loop between measurement, modeling, and design. Together, these developments signal a fundamental shift in microwave instrumentation: from isolated measurement tools to integrated platforms for system-level insight and innovation.

17:55 Awards Ceremony – EuMIC Best Paper Awards

18:15 Tudor Williams¹
Filtronic

18:15 Closing Remarks

18:25 Tudor Williams¹
Filtronic

18:25 Invitation to EuMIC 2027

18:30 Ernesto Limiti¹
University of Rome Tor Vergata

WEDNESDAY 08:30 – 10:30

ROOM	Room 1	Room 4	Room 6	Room 7
	EuMC12 Active Integrated Phased Arrays and Tx/Rx Module Technologies Chair: Ulf Johannsen¹ Co-Chair: Gabriele Federico² ¹Eindhoven University of Technology, ²Eindhoven University of Technology - TU/e	EuMC13 Millimeter-Wave and THz Communication Chair: Guillaume Ducournau¹ Co-Chair: Tadao Nagatsuma² ¹University of Lille, ²The University of Tokyo	EuMC14 Components Based on Emerging Materials and Processes Chair: Pierre Blondy¹ Co-Chair: Raafat R. Mansour² ¹Xlim - UMR 7252 - CNRS- Limoges University, ²University of Waterloo	EuMC15 Integrated CMOS and GaN Power Amplifiers Chair: Vittorio Camarchia¹ Co-Chair: José Angel García² ¹Politecnico di Torino, ²University of Cantabria
08:30 – 08:50	EuMC12-1 A Scalable Q-band DBF Array Antenna Integrated Tx Module Using Manchester-Encoded 1-Bit BPDSM and Tripler Configuration Ryosei Miyagawa¹, Yuki Fujiya¹, Tomoyuki Furuichi¹, Satoshi Tsukamoto¹, Noriharu Suematsu¹ ¹Tohoku University	EuMC13-1 E-band Radio Link utilizing a 29 dBm GaN PA demonstrated in Field Trial Mikael Hörberg¹, Klas Eriksson¹, Bharath Cimbili², Sining An¹, Johan Karlsson¹, Jonas Gustavsson¹, Richard Lindman¹, Torbjörn Dahl¹, Konstantinos Bitsikas¹, Konstantinos Kravariotis³, Mingquan Bao¹, Christian Friesicke⁴, Ruediger Quay⁴, George Skiadas⁴, Sam Agneessens⁴, Martin Myhr⁴ ¹Ericsson AB, ²Fraunhofer IAF, ³Fraunhofer Institute for Applied Solid State Physics, ⁴Ericsson Greece, ⁵OTE-Group of Companies	EuMC14-1 A DC-67 GHz Phase Change Material Based SPDT Switch In a Commercial SiGe BiCMOS Process Ahmed Metwally Hegazy¹, Raafat R. Mansour¹ ¹University of Waterloo	EuMC15-1 A 21-35GHz 23.8dB Peak Gain Three-Stacked FET Power Amplifier Based on Neutralization Inductors Using 22-nm FD-SOI CMOS Lu Xie¹, Kun Gao¹, Yudi Yang¹, Yuhang Zhang¹, Jiewen Wang¹, Shuyang Li¹, Shunhua Hu¹, Wenhua Chen¹ ¹Tsinghua University
08:50 – 09:10	EuMC12-2 Comparison of Direct Filtering and Channel Splitting in the Context of Digital Beamforming Chiplets Nick Cancrinus¹, Yanki Aslan¹, Samer Medawar², Alvaro Diaz Bolado², Alessandro Matheoud², Alexander Yarovoy¹ ¹Delft University of Technology, ²Viasat Antenna Systems	EuMC13-2 A 100-Gbps D-Band Communication Link Using Polymer Micro-wave Fiber and eWLB-packaged SiGe BiCMOS Technology Haojie Chang¹, Maciej Wojnowski², Sining An¹, Frida Strömbeck¹, Yu Yan¹, Hartner Walter², Parisa Aghdam³, Herbert Zirath³ ¹Chalmers University of Technology, ²Infinion Technologies AG, ³Ericsson AB, Sweden	EuMC14-2 Tunable Microwave Stub for Ku-Band Compact Tuners using PCM Switches Kariny Nunes Maia¹, Nicolas Parou¹, Cyril Guines¹, Julien Lintignat¹, Audrey Martin¹, Pierre Blondy¹ ¹Xlim - UMR 7252 - CNRS	EuMC15-2 A 26.3–36.2 GHz Power Amplifier Employing Coupled-TL Feedback and an Optimized Gate Layout Yo-Sheng Lin¹, Wei-Chung Weng¹ ¹National Chi Nan University
09:10 – 09:30	EuMC12-3 A Simultaneous 28 GHz FDD Phased Array Transceiver with Interference Tolerant RF Front End Yuval Ginzberg¹, Sergei Efimov¹, Emanuel Cohen¹ ¹Technion - Israel Institute of Technology	EuMC13-3 Robust Long-Term Duplex Operation of a Wireless Network-Integrated Terahertz Outdoor Testbed Simon Hausmann¹, Lukas Gebert¹, Axel Tessmann², Ralf Henneberger², Thomas Zwick², Ingmar Kallfass² ¹University of Stuttgart, Institute of Robust Power Semiconductor Systems, ²Fraunhofer Institute for Applied Solid State Physics IAF, ³RPG Radiometer Physics GmbH, ⁴Karlsruhe Institute of Technology (KIT)/ Institute of Radio Frequency Engineering and Electronics (IHE)	EuMC14-3 Polydopamine-Assisted Tollens Metallization for 3D-Printed Microwave Components Dominik Langer¹, Frederike Bartels¹, Alexander Kölpin¹ ¹Hamburg University of Technology (TUHH)	EuMC15-3 A MMIC-Based 14 GHz Dual Driver Doherty Power Amplifier Using Improved GaN/Si Technology Dhruvin Dhaval Pandya¹, Christian Schuberth¹, Stefan Bernhofer¹, Sudip Ghosh¹, Thomas Maier², Samer Al-Harazi¹, Helmut Brech¹, Rüdiger Quay¹ ¹Infinion Technologies AG, ²Fraunhofer Institute for Applied Solid State Physics (IAF), ³Nokia Technology Center Ulm, ⁴Institute for Sustainable Systems Engineering (INATECH), University of Freiburg
09:30 – 09:50	EuMC12-4 Link Budget and Component Design for an AESA in the FR2 n512 Bands Stefano Pisa¹, Renato Cicchetti¹, Emanuele Piuze¹, Erika Pittella¹, Orlandino Testa¹, Stefano Perticaroli², Francesco Buratti³, Antonio Mosca⁴, Marco Trigilio⁴, Hassan Raza⁴, Michela Dragone⁴, Leonardo Cordisco², Saïed Jamili¹ ¹Sapienza University of Rome, ²Radio Analog Micro Electronics srl, RAME	EuMC13-4 A Polymer Microwave Fiber Link at Y-band for Low-Cost High-Speed Communication Frida Strömbeck¹, Maciej Wojnowski², Klaus Standner², Walter Hartner², Yu Yan¹, Herbert Zirath¹ ¹Chalmers University of Technology, ²Infinion Technologies AG	EuMC14-4 2D MXene Enables Stretchable Resonant Array (SRA) for Structural Health Monitoring Zahra Sarpanah Sourkoui¹, Jamal Alhourani², Yury Gogotsi¹, Mohammad Zarifi¹ ¹The University of British Columbia, ²AJ. Drexel Nanomaterials Institute and Department of Materials Science and Engineering, Drexel University, ³The University of British Columbia, Canada	EuMC15-4 Monolithically Integrated Doherty PA for Band n104 Massive-MIMO Arrays Christian Musolff¹, Helmut Brech¹, Alexander Deublein², David Riess², Michael Loose² ¹Infinion Technologies AG, ²Friedrich-Alexander-Universität Erlangen-Nürnberg
09:50 – 10:10	EuMC12-5 Constructing Directional Modulation Transmitter Using Nonlinear Active Arrays Jiayu Hou¹, Yiyue Jiang², Aidan Colgan², Jonathan Ribeiro², John Dooley², George Goussetis², Yue Xiao³, Yuan Ding¹ ¹Heriot-Watt University, Edinburgh, ²Department of Electronic Engineering, Maynooth University, ³University of Electronic Science and Technology of China	EuMC13-5 Demonstration of 300 GHz Non-line-of-sight TCP-IP Link Enabled by Reflective Surface Rita Younes¹, Frederic Dutin¹, Davy Gaillot², Pascal Szriftgiser², Victor Torres³, Jorge Teniente², Itziar Maes-trojuan Blurrin¹, Simon Hausmann¹, Lukas Gebert¹, Ingmar Kallfass², Axel Tessmann², Sandrine Wagner², Sébastien Chartier², Carlo Lanzoni¹, Gabriele Canini¹, Luca Sanguinetti¹, Guillaume Ducournau¹ ¹IEMN, CNRS, University of Lille, France, ²Laboratoire de Physique des Lasers, Atomes et Molécules, UMR CNRS 8523 PhLAM, Université de Lille, France, ³Anteral, ⁴Public University of Navarre, ⁵Institute of Robust Power Semiconductor Systems (ILH), ⁶Fraunhofer IAF, ⁷Robopac-TECHLAB, ⁸CNIT	EuMC14-5 A Monolithic Metal 3D-Printed E-band Waveguide Cavity Filter: Manufacture and Surface Treatment Abolfazl Mostaani¹, Talal Skaik¹, Lu Qian¹, Peter Huggard², Peter Hunyor², Xiaobang Shang², Ollid Bouzekri⁴, Yi Wang¹ ¹University of Birmingham, ²UKRI STFC Lab, ³National Physical Laboratory, ⁴ESA-ESTEC	EuMC15-5 Average Power Tracking Analysis of a Ka-Band GaN MMIC Power Amplifier With Integrated Supply Modulator for 5G Waveforms Gobezie Nigussie Molla¹, Meseret Tesfaye Wolde¹, Mohammad Moussa¹, Ahmad Al Hajjar², Julien Poulain², Philippe Bouysse¹ ¹XLIM - CNRS - Université de Limoges, ²MACOM Technology Solutions
10:10 – 10:30	EuMC12-6 Hierarchical Tiled Arrangement of Unit Phased Array for High-Speed Beam Steering Sodai Hiyoshi¹, Yotaro Mune¹, Anji Miura¹, Ryuma Naruki¹, Hideyuki Nosaka¹ ¹Ritsumeikan University		EuMC14-6 Buried-Electrode Surface Acoustic Wave: a high velocity mode for UHB applications Sylvain Ballandras¹, Alexandre Clairet², Emilie Courjon¹, Roland Salut³, Florent Bernard², Tony Makdissy¹, Tony Makdissy¹, Saly N'diaye¹, Thierry Laroche¹, Marie Bousquet¹, William Daniau¹, Laure Rolland du Roscoat¹, Karine Landry¹, Aziz Alami-Idrissi¹ ¹SOITEC SA, ²FEMTO-ST UMR 6174, ³CEA - LETI	EuMC15-6 A W-Band Packaged 2-Watt GaN CW Power Amplifier Module to Cover Frequency Range of 75 to 110 GHz Yonghui Shu¹, Alex H. Chen¹ ¹Eravant

WEDNESDAY 08:30 – 10:30

ROOM	Room 11
	EuMC16 EuMA-EurAAP Special ses- sion Co-Design of Electronics and Antennas for Active Array Antennas Chair: Bart Smolders¹ Co-Chair: Maria Viganó², Daniele Cavallo³ ¹TU Eindhoven, ²Viasat, ³TU Delft
08:30 – 08:45	EuMC16-1 Co-design of filtering antennas and electronics Yi Wang¹ ¹University of Birmingham
08:45 – 09:00	EuMC16-2 Techniques for RF Front-End and Antenna Co-Design for Next- Generation Integrated Phased Arrays Damiano Badini¹, Renato Lombardi² ¹Huawei Technologies Co. Ltd., ²Huawei IT
09:00 – 09:15	EuMC16-3 Over-the-Air characterization of highly integrated antenna systems Teun van den Biggelaar¹ ¹Antennex
09:15 – 09:30	EuMC16-4 Co-Design of an Octave Bandwidth Ultra Low-Noise Active Ortho- mode Transducer Paulus Kruger¹ ¹ASTRON
09:30 – 09:45	EuMC16-5 Full duplex array antennas with self-interference mitigation Rob Maaskant¹ ¹Chalmers University of Technology
09:45 – 10:00	EuMC16-6 Highly integrated front-end concept for dual-band 77/140 GHz automotive radar Vojkan Vidojkovic¹ ¹Eindhoven Univeristy of Technology
10:00 – 10:15	EuMC16-7 Co-design of antenna and electronics for a passive terahertz camera Maria Alonso del Pino¹ ¹Technical University of Delft

Room 13	
	EuMC17 Sustainable and Ambient Energy Harvesting for Wireless Power Transfer Chair: Naoki Shinohara ¹ Co-Chair: Alessandra Costanzo ² ¹ Kyoto University, ² Università di Bologna
08:30 - 08:50	EuMC17-1 Power Distribution Control in Multi-Receiver WPT Using a Receiver Power Controllable Transmitter Yeong-Ju Seo ¹ , Ji-Young Kim ¹ , Yun-sung Kim ¹ , Haechan Kang ¹ , Junhyun Kim ¹ , Jong-Won Yu ¹ ¹ School of Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
08:50 - 09:10	EuMC17-2 Study of a Cubic Receiving Antenna for Indoor Wireless Power Transfer Ryota Kuri ¹ , Naoki Shinohara ¹ , Tomoki Yoshida ¹ , Tomohiko Mitani ¹ , Takayuki Okada ² ¹ Kyoto University, Japan, ² Murata Manufacturing Co., Ltd.
09:10 - 09:30	EuMC17-3 Hybrid Solar-Microwave Energy Conversion for Greenhouse Agriculture Using Transparent Rectennas JING Jianwei ¹ ¹ Kyoto University, Japan
09:30 - 09:50	EuMC17-4 Enhanced Wireless Power Transfer in Complex Propaga- tion Environments using Phase Conjugation Anahita Piri ¹ , Ícaro Veloso Soares ² , Matthieu Davy ¹ , Denys Nikolayev ¹ ¹ IETR, ² Trinity College Dublin
09:50 - 10:10	EuMC17-5 Recyclable Additive Circuits for RF Wireless Power Transfer Ena- bling Improved Power Handling and Sustainability Nikolas Bruce ¹ , Xiaochuan Fang ¹ , Mahmoud Wagih ¹ ¹ University of Glasgow

Room 14
EuMC18 Advanced VNA Measure- ment Techniques Chair: Michael Ernst Gadringer¹ Co-Chair: Andrej Rumiantsev² ¹Institute of Microwave and Photonic Engineering, Graz University of Tech- nology, Austria, ²MPI Corporation
EuMC18-1 On parameterized de-embed- ding: indexing choices and uncertainty implications Jon Martens¹ INDUSTRIAL KEYNOTE ¹Anritsu
EuMC18-2 Measurement Uncertainty Com- parison of SOLR and SRM for a Planar Three-Port Calibration Lukas Ebner¹, Stefan Wögerbauer¹, Helmut Paulitsch¹, Michael Ernst Gadringer¹ ¹Institute of Microwave and Photonic Engineering, Graz University of Technology, Austria
EuMC18-3 A Scalable One-Port De- Embedding Technique for High Frequency Characterization of InP UTC-Photodiodes Rinchen Choki Bhutia¹, Sara Hamzeloui¹, Amiran M Zadeh¹, Giorgio Bonomo¹, Nikolaos Poupouridis¹, Olivier J. S. Ostinelli¹, Colombo Bolognesi¹ ¹ETH Zurich
EuMC18-4 An Overdetermined Generalized Eigenvalue Formulation for VNA Calibration Ziad Hatab¹, Bart Schrijver¹, David Blackham¹ ¹Keysight Technologies
EuMC18-5 Universal Method for Probe Planarity Adjustment for 2-port On-wafer Measurement Ryo Sakamaki¹, Martin Medebach², Seitaro Kon¹, Shuhei Amakawa², Michael Ernst Gadringer¹ ¹National Institute of Advanced Industrial Science and Technology, ²Graz University of Technology, ³Hiroshima University
EuMC18-6 Evaluation of Real-Time Opti- cally Corrected Probing of RF Devices with Different Probe Types Domenico Vitali¹, Alessandro Chilloco¹, Olof Bengts- son¹, Wojciech Samek² ¹Ferdinand Braun Institut (FBH), ²Technical University Berlin

Room 17
EuMC19 Advanced Filter Design: AI-Driven, ML-Enhanced & Space-Mapped Chair: Michal Mrozowski¹ Co-Chair: Matteo Oldoni² ¹Gdansk University of Technology, ²Politecnico di Milano
EuMC19-1 Deep Learning Enabled Inverse Design of Non-Uniform Pixel- Based Bandpass Filters Chandan Roy¹, Ming Jian¹, Peyman Neshaastega- ran¹, Wenyao Zhai¹ ¹Huawei Technologies Canada Co.
EuMC19-2 Cognitive-Driven EM Optimiza- tion Using Complex Frequency Domain Features for Microwave Filters Jingyi Feng¹, Feng Feng¹, Qi-Jun Zhang² ¹Tianjin University, ²Carleton University
EuMC19-3 Transformer-Based Surrogate Model for Bandpass Filters with Controllable Transmission Zeros Xiaoyang Yu¹, Jingyun Bi¹, Xiaofei Hu¹, Xinyu Zhou¹, Jing Xia¹, Wing Shing Chan¹, Xiaojun Fu¹, Hao Wu¹, Manlin Yang¹ ¹The Hong Kong Polytechnic University, ²Jiangsu University, ³City University of Hong Kong, ⁴No. 24 Research Institute of China Electronics Technology Group Corporation, and National Key Laboratory of Integrated Circuits and Microsystems
EuMC19-4 AI-Based Inverse Design Frame- work for Harmonic Suppressed Hexagonal Pixelated Bandpass Filtering Matching Network Palaystint Thorne¹, Dowon Lee¹, Suyeon Kim¹, Md Abu Sufian¹, Phanam Pech¹, Jongsik Lim¹, Yongchae Jeong¹ ¹Jeonbuk National University, South Korea, ²National Polytechnic Institute of Cambodia, ³Soonchunhyang University, South Korea
EuMC19-5 Enhancing Microwave Filter Design using Machine-Learning Surrogate Models Carolina Garcia¹, Carlos Gahete¹, Carlos Vicente¹, Martin Wild¹, Theunis S. Beukman¹, Jordi Gil Raga¹, Vicente E. Boria² ¹Dassault Systèmes, ²Universitat Politècnica de Valencia

WEDNESDAY 08:30 – 10:30

ROOM**Room 8****EuMW02**

EuMC/APMC Special Session
Microwave Technologies for
Quantum Computers and
Quantum Sensing in Asia-
Pacific Region

Chair: Atsushi Sanada¹

¹Osaka University, Japan

**08:30
–
08:50**

EuMW02-1

Superconducting Quantum
Computer in RIKEN

Yutaka Tabuchi¹

¹RIKEN Center for Quantum Computing

**08:50
–
09:10**

EuMW02-2

Angle-Resolved Two-Photon
Quantum Scattering from Loss-
less Dielectric Structures via
FFT-Accelerated Volume Integral
Equations

Wei Sha¹

¹Zhejiang University

WEDNESDAY 10:30 – 12:50

Exhibition Hall

EuMC-P02

EuMC Poster Session 2

Chair: Kamal Samanta¹

Co-Chair: Zhenzhen Jiang²

¹AMWT Ltd UK, ²Xi'an Jiaotong Liverpool University

Best Poster Award
presented at the EuMC
Closing Ceremony

EuMC-P02-1

Spatial Resolution Analysis of a Dielectric Waveguide Near Field Sensor for Surface Characterization

Josua Schnarr¹, Thomas Musch¹, Marcel van Delden¹
¹Ruhr-University Bochum

EuMC-P02-5

A Two-Port Local Receiver for Distinguishing Transverse Phase Information of Beams Carrying Orbital Angular Momentum

Giacomo Lupi¹, Lorenzo Scalcinati¹, Bruno Paroli¹, Marco A.C. Potenza¹
¹University of Milan

EuMC-P02-9

Modulated signal measurements: Comparison of Photonics and Electronics Approaches for D-band

Yewulsey Manale WODAJE¹, François Danneville², Pascal Szriftgiser², Daniel Gloria², Guillaume Ducournau²
¹University of Lille - IEMN, ²IEMN CNRS UMR 8520 - Univ of Lille, ³CNRS - University of Lille, ⁴STMicroelectronics, France

EuMC-P02-13

Prediction of EVM degradations from AM/AM and AM/PM curves in D and H bands

Bachar Baridi¹, Guillaume Ducournau², Danneville François², Daniel Gloria²
¹IEMN CNRS UMR 8520 - Univ of Lille, ²IEMN CNRS - Univ of Lille, ³STMicroelectronics, 850 Rue Jean Monnet, 38920 Crolles

EuMC-P02-2

A 140-220 GHz Broadband Frequency Doubler with High-efficiency and High-power

Yiming Zhang¹, Xiang Luo¹, Huali Zhu¹, Yong Zhang¹
¹University of electronic science and technology of china

EuMC-P02-6

Dynamic Monitoring of Drying Processes Through Overmoded Circular Waveguides Using a D-Band FMCW Radar

Javagar Mahendran¹, Manuel Funk¹, Felix Faber², Alba Diéguez Alonso², Christian Schulz², Nicole Vorhauer-Huget², Ilona Rolles², Jan Barowski¹
¹Institute of Microwave Systems, Ruhr University Bochum, Bochum, Germany, ²Otto von Guericke University Magdeburg, ³TU Dortmund

EuMC-P02-10

Dual-Band Microwave Microfluidic Sensor with Enhanced Sensitivity Based on Coupled EMSIW Resonators

Xinyue Song¹, Ming Liang¹, Fei Yang¹, Juncheng Bao², Sen Yan¹
¹Xi'an Jiaotong University, ²Shenyang Institute of Automation, Chinese Academy of Sciences

EuMC-P02-14

Study to Achieve Stable VNA Measurements Using 500-750 GHz Quasi-Optical Setup

Daniel Georg Hellmich¹, Kasturie Dileep Jatkar¹, Helena Rodilla¹
¹Chalmers University of Technology, Gothenburg, Sweden

EuMC-P02-3

Ceramic Processing in a Multi-mode Heating Cavity

Ariana Kazemi¹, Laila Figuera Marzall¹, Robert Weiss², Alex Welsh², Zoya Popovic¹
¹University of Colorado, Boulder, ²Malachite Technologies

EuMC-P02-7

Microfluidic-Integrated Silicon Dielectric Slot Waveguide Sensor for Fluid Characterization

Kristof Dausien¹, Tobias Körner¹, Marcel Burfeindt¹, Paulami Das¹, Martin Hoffmann¹, Ilona Rolles¹, Jan Barowski¹
¹Ruhr University Bochum, Germany

EuMC-P02-11

Ultra-low phase noise photonic microwaves enabled by a Difference Frequency Comb

Thomas Puppe¹, Sebastian Müller¹, Mikhail Volkov¹
¹Optica Photonics SE

EuMC-P02-15

Generalized Quasi-Conformal Transformation Optics

Konrad Winston Haipl¹, Hossein Sarbandi Farahani², Holger Arthaber³
¹PIDOS GmbH / Technische Universität Wien, ²PIDOS GmbH, ³Technische Universität Wien

EuMC-P02-4

Environmental Impact Assessment of an FR3-band Base Station

Emma Compilido¹, Serge Bories¹, Mattia Merluzzi¹
¹CEA Leti, Univ. Grenoble Alpes, F 38000 Grenoble, France

EuMC-P02-8

Dual-Sense 4-Tap RF Analogue Cancellation for Blocker-Tolerant Wideband Receivers

Francesco Raimondo¹, Mir Lodro¹, Andrew C. M. Austin¹, Geoffrey Hilton¹, Mark A. Beach¹
¹University of Bristol, Bristol, UK

EuMC-P02-12

Uniform E-Field Microwave-Fluidic Sensor Towards Broadband In-Flow Characterization of Microparticles

Arkadiusz Małek¹, Ilona Piekarz², Artur Rydosz², Jakub Sorocki¹
¹AGH University of Krakow

EuMC-P02-16

Accurate Equation-based Model for Schottky Diodes

Boris Dabov¹, Huib Visser¹, Dusan Milosevic², Hans Pflug³
¹imec Netherlands, ²Eindhoven University of Technology, ³Onward Medical N.V.

WEDNESDAY 11:10 – 12:50

ROOM	Room 1	Room 4	Room 6	Room 7
	EuMC20 Phased Array Topologies, Elements, and Wide-Angle Beam Scanning Chair: Marianna Ivashina ¹ Co-Chair: Elmine Meyer ² ¹ Chalmers University, ² Eindhoven Univeristy of Technology	EuMC21 Millimeter-Wave and THz Photonics Techniques Chair: Guillaume Ducournau ¹ Co-Chair: Andreas Stohr ² ¹ University of Lille, ² University Duisburg-Essen	EuMC22 Biomedical Imaging and Radar Sensing Chair: Ann Francois ¹ Co-Chair: Changzhi Li ² ¹ Ghent University, ² Texas Tech University	EuMC23 Advanced Power Amplifier Design Chair: Roberto Quaglia ¹ Co-Chair: Filipe Barradas ² ¹ Cardiff Univeristy (UK), ² Instituto de Telecomunicações, Universidade de Aveiro
11:10 – 11:30	EuMC20-1 A Wide-Beam Magnetoelectric Dipole Antenna for Scan-Loss Reduction in 5.8-GHz Wide-Angle Scanning Phased Arrays Junhyun Kim ¹ , Chanhee Lee ¹ , Ji-Young Kim ¹ , Ji-Hoon Lee ¹ , Yun-sung Kim ¹ , Jong-Won Yu ¹ ¹ KAIST RFSS	EuMC21-1 Ultra Broadband Photonic Vector Network Analyzer Demonstrating a Calibrated D-Band Measurement Garrit Schwanke ¹ , Milan Deumer ¹ , Timo Noack ² , Thomas Puppe ³ , Sebastian Müller ¹ , Albrecht Neu-decker ³ , Nico Vieweg ¹ , Lars Liebermeister ¹ , Mehmet Ahad Yurtoglu ¹ , Ramez Askar ¹ , Michael Peter ¹ , Taro Eichler ² , Gerd Hechtfischer ² , Robert Kohlhas ³ ¹ Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute, HHI, ² Rohde & Schwarz GmbH & Co. KG, ³ Optica Photonics SE	EuMC22-1 Experimental Validation of a Novel Cavity-Backed Sensor Array for Microwave Breast Imaging Milad Mokhtari ¹ , Milica Popović ¹ , Setareh Eftekhari ² ¹ McGill University, ² Concordia University	EuMC23-1 Inverse Design of Compact and Wideband Inverted Doherty Power Amplifiers Using Deep Learning Han Zhou ¹ , Haojie Chang ² , David Widén ¹ , Christian Fager ² ¹ Tampere University, ² Chalmers University of Technology
11:30 – 11:50	EuMC20-2 Additively Manufactured Dielectric Lens for Extending X-band AESA Radar Field-of-View Lorenzo Giambuzzi ¹ , Stefania Franco ¹ , Fabrizio Andreus ¹ , Alessia Colasante ¹ , Philip Lambert ² , Henrik Ramberg ³ ¹ Rheinmetall Italia S.p.A, ² 3DFortify, Inc	EuMC21-2 Enhanced Beam Switching with a Photonic Sub-THz Transmitter for Joint Communication and Sensing Simon Nellen ¹ , Garrit Schwanke ¹ , Sebastian Lauck ¹ , Milan Deumer ¹ , Maria C. Santos ² , Robert Kohlhas ¹ ¹ Fraunhofer Heinrich Hertz Institute, ² Universitat Politècnica de Catalunya (UPC)	EuMC22-2 Detecting Intracranial Hemorrhage via Wearable Microwave Imaging: Ex Vivo Human Study Nadim Conti ¹ , Pablo Giaccaglia ¹ , Valentina Lidoni ¹ , Alessia Rosa ¹ , Valentina Marandici ¹ , Jody Filippo Capitanio ² , Carmine Antonio Donofrio ² , Antonio Fioravanti ³ ¹ Rilemo S.R.L., ² IRCCS Ospedale San Raffaele, ³ ASST Cremona	EuMC23-2 S-Band Power Amplifier Design Based on a Bare Die Device Osian Jones ¹ , Taylor Barton ¹ ¹ University of Colorado - Boulder
11:50 – 12:10	EuMC20-3 Orthogonal-Port Isolation in Wide-Scan Triangular-Lattice Dual-Polarized mmWave Arrays Using Unbalanced-Fed Patch Antennas Theodoros Pavlidis ¹ , Artem R. Vilenskiy ² , Thomas Schäfer ¹ , Ahmed A. Kishk ³ , Marianna Ivashina ¹ ¹ Chalmers University of Technology, ² XPANCO, ³ Satcube AB, ⁴ Concordia University	EuMC21-3 A 3-13 GHz MZM LNA/Driver for Radio-over-Fiber Links in 22-nm CMOS FDSOI sareh bavandi ¹ , Jierui Fu ¹ , Hongwen Yu ¹ , Kamran Entesari ¹ ¹ TEXAS A&M UNIVERSITY	EuMC22-3 MRI Receive Coil Based on a Two-Turn Spiral Resonator with 3D-Printed Filament Matthew Band ¹ , William Mathieu ¹ , Milica Popović ¹ , Reza Farivar ¹ ¹ McGill University	EuMC23-3 50-W GaN-on-Si Doherty Power Amplifier at 7 GHz Alexander Deublein ¹ , Christian Musloff ² , Michael Loose ³ , David Riess ³ , Aldo Ruggiu ¹ , Jan-Felix Etzel ¹ , Robert Weigel ¹ , Georg Fischer ¹ , Norman Franchi ¹ ¹ Institute for Smart Electronics and Systems, Friedrich-Alexander-Universitaet Erlangen-Nuernberg, ² Infineon Technologies AG, ³ Nokia Technology Center Ulm
12:10 – 12:30	EuMC20-4 Reducing mutual coupling effects using centered slots array with 3D printed ridged waveguides Shandipsing Robee ¹ , Christian Person ¹ , Anne-Charlotte AMIAUD ¹ , Thomas Merlet ¹ ¹ IMT Atlantique, France, ² THALES LAS, Elancourt, France	EuMC21-4 Microwave Frequency Measurement of Multi-Tone Signals Using a Programmable Photonic Processor Georgios Lymparakis ¹ , Yu Zhang ¹ , Xiangfeng Chen ¹ , Lukas Van Iseghem ¹ , Iman Zand ¹ , Hasan Salmanian ¹ , Joris Van Kerrebrouck ² , Antonio Ribeiro ¹ , Guy Torfs ¹ , Wim Bogaerts ¹ ¹ Photonics Research Group IMEC - Ghent University, ² IDLab, Ghent University - imec	EuMC22-4 Millimeter-Wave Radar-Based Unobtrusive Arrhythmia Classification Using Deep Learning Yuchen Li ¹ , Zichen Huang ¹ , Jie Cao ¹ , Xiaolei Xu ² , Qishan Chen ¹ , Li Zhang ¹ , Changzhan Gu ¹ ¹ Shanghai Jiao Tong University, ² Xinhua Hospital Affiliated to Shanghai Jiaotong University School of Medicine	EuMC23-4 A 915-MHz 1-kW High-Efficiency Continuous-Mode GaN Power Amplifier with In-Package Matching and Diamond-Copper Heat Dissipation Jian Lu ¹ , Haoyu Liu ¹ , Chenglong Li ¹ ¹ Suzhou Watech Electronics Co.,Ltd.
12:30 – 12:50	EuMC20-5 A 50 dBi Gain E-Band Planar Phased Array for 10-Gb/s Wireless Backhaul Using Phase Clustering Francesco Rosta ¹ , Lorenzo Bastia ¹ , Tommaso Tiberi ¹ , Diego Masotti ¹ , Alessandra Costanzo ¹ ¹ Alma Mater Studiorum - Universita di Bologna	EuMC21-5 Ultra-stable X-Band Photonic Microwave Source in a 3HU Rack System Achieving Mid-10E-15 Stability Benjamin Rauf ¹ , Michele Giunta ¹ , Marc Fischer ¹ , Ronald Holzwarth ¹ ¹ Menlo Systems GmbH		EuMC23-5 Planar Ultra-Wideband and High-Efficiency Coaxial-Less GaN High-Power Amplifier Victor Bregon ¹ , Anthony Ghiotto ² , Jose De Oliveira ² , Christophe Goujon ¹ , Guillaume Mouginot ¹ ¹ Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ² Thales SIX, Le Barp, ³ Direction Générale de l'Armement

WEDNESDAY 11:10 – 12:50

ROOM

Room 13

EuMC24

Next-Generation Backscatter Tags and Harmonic Radar Systems

Chair: Jiafeng Zhou¹

Co-Chair: Nuno Borges Carvalho²

¹University of Liverpool, ²University of Aveiro / Instituto de Telecomunicações

11:10 – 11:30

EuMC24-1

Semi-Supervised Pedestrian Identification Using CNN-BiLSTM Network with Mean Teacher Training

Linqi Zhao¹, Yuqi Sha¹, Wai-Wa Choi¹, Pedro Cheong¹

¹The University of Macau

11:30 – 11:50

EuMC24-2

Dual-Stream Backscatter Transmission Using Tags with 3-Load

Yishan Wang¹, Gonçalo Martins², Jayakrishnan Methapettyparambu Purushothama¹, Wei Gong², George Goussetis¹, Nuno B. Carvalho², Yuan Ding²

¹Heriot-Watt University, ²Universidade de Aveiro, ³University of Science and Technology of China

11:50 – 12:10

EuMC24-3

A Fully SDR-based Interferometric Harmonic Radar for Locating Passive Harmonic Transponders

Moritz Schabinger¹, Thomas Schaechtle¹, Fabian Höflinger¹, Stefan Johann Rupitsch¹

¹University of Freiburg, ²Fraunhofer EMI

12:10 – 12:30

EuMC24-4

An Ultra-Low-Power Microwave Rectifier at -20 dBm for Battery-Free IoT Node

Haoming He¹, Liping Yan¹, Changjun Liu¹

¹Sichuan University

12:30 – 12:50

EuMC24-5

Experimental Validation of a Tuner-Based Single-Path Dual-Band Backscatter Tag for FDD Communication

Jonathan Okocha¹, Matthias Rudolph¹

¹Brandenburg University of Technology (BTU)

Room 14

EuMC25

Advanced On-Wafer Calibration and Characterization Techniques for mmWave and Sub-THz Technologies

Chair: Gia Ngoc Phung¹

Co-Chair: Jon Martens²

¹Physikalisch Technische Bundesanstalt (PTB), ²Anritsu

EuMC25-1

Instrumentation Evolution: Defining the Next Generation of mmWave Products and Applications

Andrei Rumiantsev¹

INDUSTRIAL KEYNOTE

¹MPI Corporation

EuMC25-2

Single Sweep Characterization of InP HEMT with a Novel 250 MHz - 250 GHz On-Wafer mTRL Design

Huihua Cheng¹, Andrej Rumiantsev², Suren Singh¹, Xiaobang Shang², Chong Li¹

¹University of Glasgow, ²MPI Corporation, Taiwan, ³Keysight Technologies, USA, ⁴National Physical Laboratory, UK

EuMC25-3

Accurate Modeling of On-Wafer Standards for Characterization of InP HBTs Using 16-Term Calibration

Abhijeet Kanitkar¹, Ralf Doerner¹, Wolfgang Heinrich¹, Thomas Flisgen¹

¹Ferdinand-Braun-Institut, ²Brandenburg Technical University Cottbus, Cottbus

EuMC25-4

Impact of Surface-Wave Modes on ISS Calibration and Transmission Line Characterization

Arash Masrouei¹, Louis Delait¹, Jean-Pierre Raskin¹, Dimitri Lederer¹

¹ICTEAM, Université catholique de Louvain, Belgium

EuMC25-5

Benchmarking TRL, LRM, and LRRM On-Wafer Calibrations for Silicon Technologies at D-Band

Aniello Franzese¹, Batuhan Sutbas¹, Seyyid Dilek¹, Farabi Ibne Jamal¹, Sebastian Schulze¹, Dirk J. Hagen¹, Dirk Wolansky¹, Marco Spirito¹, Corrado Carta¹

¹IHP - Leibniz Institute for High Performance Microelectronics, ²TU Delft

Room 17

EuMC26

Advanced Modeling Methods for Active and Integrated Circuits

Chair: Alessandra Costanzo¹

Co-Chair: Almudena Suarez Rodriguez²

¹Università di Bologna, ²Universidad de Cantabria

EuMC26-1

Fast, Low-Cost Passive Load-Pull Measurements Using AI Load-Pull Extrapolation and Switched Impedance Network

Jonathan Swindell¹, Oliver Jarvis¹, Austin Egbert¹, Adam Goad¹, David Cox¹, Charles Baylis¹, Robert Marks¹

¹Baylor University

EuMC26-2

Optimizing Finger Geometry and Electrode Layout for Enhanced Millimeter Wave Device Characteristics

Bilal Pirzada Pirzada¹, Mohamed Mokhtar¹, Samir El-Ghazaly¹

¹University of Arkansas

EuMC26-3

Machine Learning based Surrogate Models of Inductors Integrated in BiCMOS Technologies

Romain Demarchi¹, Giansello Frederic¹, Foissey Ophélie¹, Charbuillet Clément¹, Rodriguez Sebastian², Mounayer Jad¹, Chinesta Francisco¹, Bila Stephane¹, Dominique Baillargeat¹

¹STMicroelectronics, France, ²PJMM Lab, Arts et Métiers Institute of Technology, Paris, France., ³XLIM, University of Limoges, ⁴CNRS@CREATE, CREATE Campus, Singapore

EuMC26-4

Few-Shot Adaptation of RF Power Amplifier Behavioral Models Across Operating Conditions

Peter Palanjian¹, Sergey Shaboyan¹, Lavanya Rau¹

¹Epirus, Inc.

EuMC26-5

Spatial Sensitivity Maps for Post-Design Robustness in GA-Optimized Microwave Circuits via Cross-Run SHAP Analysis

Takuma Akada¹, Kazuhiro Fujimori¹

¹Okayama University

WEDNESDAY 14:10 – 16:50

Exhibition Hall

EuMC-P03

EuMC Poster Session 3

Chair: Kamal Samanta¹

Co-Chair: JING Jianwei²

¹AMWT Ltd UK, ²Kyoto University, Japan

Best Poster Award
presented at the EuMC
Closing Ceremony

EuMC-P03-1

Iterative Algorithm for Near-Field Beam Shaping with Phased Arrays of Practical Element Patterns

Junyi Huang¹, Pin Li¹, Yafeng Wang¹, Yuqi Tan¹, Ang Liu¹, Shen Dong¹, Qiang Cheng¹, Yuhao Yang¹, Linghao Xia¹

¹Nanjing Research Institute of Electronics Technology

EuMC-P03-5

A Circuit-level Co-Design Methodology for a Waveguide-Integrated Power Amplifier at mm-Wave Frequencies

Yixiao Wei¹, Piyush Kaul¹

¹Eindhoven University of Technology

EuMC-P03-9

Phase Change Calibration for S-Parameter Applications with many Ports in Cryogenic Environment

Karsten Kuhlmann¹, Jaime Ohlmann², Frauke Gellersen¹

¹Physikalisch-Technische Bundesanstalt (PTB), ²TU Braunschweig

EuMC-P03-13

Joint Blind Phase Calibration and Direction of Arrival Estimation Using Convex Optimization

Shipeng Liu¹, Geert Leus¹, Arie GC Koppelaar², Juan Osorio², Kostas Doris²

¹Delft University of Technology, The Netherlands, ²NXP Semiconductors Eindhoven

EuMC-P03-2

Waveguide-Fed Fully Dielectric Rod Antenna with Pyramidal Horn and Inside Tapered Hollow for Wideband Impedance Matching

Stefan Simion¹

¹MTA - Ferdinand I

EuMC-P03-6

Site-specific signal strength predictions in a TETRA communication system

Maximilian Spahn¹, Anne-Catherine Probst¹, Maximilian Wölfl¹, Ferdinand Keil¹, Ulrich Bochtler¹

¹University of Applied Sciences Aschaffenburg, ²KAITEC GmbH

EuMC-P03-10

Measurements of Dielectric Materials Using a TRL-Calibrated VNA-Based WR-15 Material Characterization Kit Without Time-domain Gating

Tae-Weon Kang¹, Hyunji Koo¹, Chihyun Cho¹, Jae-Yong Kwon¹

¹Korea Research Institute of Standards and Science (KRISS)

EuMC-P03-14

Design of a Reconfigurable Antenna for 2D Wide-Angle Scanning Multi-Mode Arrays

Aria Modaber¹, Diego Caratelli², Bart Smolders¹, Gabriele Federico¹

¹Eindhoven University of Technology, ²Antenna Company

EuMC-P03-3

An Ultra-Low Profile Wideband Circularly Polarized Cylindrical Dielectric Resonator Antenna for mmWave V2V/V2X Communications

Ammar Al-Sammak¹, Mohammad Eissa¹, Salam Khamas¹

¹University of Sheffield

EuMC-P03-7

Scan Loss Characteristics of Patch-Based Phased Array Topologies: An Empirical Analysis

Petar Peshev¹, Diego Caratelli¹, Gabriele Federico², Bart Smolders¹

¹The Antenna Company, Eindhoven University of Technology, ²Eindhoven University of Technology

EuMC-P03-11

The Design of a 2x2 MIMO Transparent Antenna Array

Aline C. de Souza¹, Johan Skatt¹, Robert F. Praino, Jr.²

¹Cambridge Consultants, ²CHASM Advanced Materials, Inc.

EuMC-P03-4

Enhanced X-band Microwave Absorption via Surface-Functionalized ZnO Nanoparticles in Epoxy Nanocomposites

Karim Benzaoui¹

¹Research Center Development

EuMC-P03-8

Wideband Layered Dielectric Resonator Antenna for Millimeter-wave Applications

Sofia Vasconcellos¹

¹Faculty of Electrical and Computer Engineering, University of Campinas (Unicamp).

EuMC-P03-12

Design and Development of a High-Gain Four-Element Antenna Array for 28 GHz mmWave 5G Applications

Fayyadh Ahmed¹, Salam Khamas¹

¹University of Sheffield

WEDNESDAY 14:10 – 16:10

ROOM	Room 1	Room 4	Room 6	Room 7
	EuMC27 Smart Antennas, SatCom Apertures, and Array Characterization Chair: Akram Alomainy¹ Co-Chair: Qammer H. Abbasi² ¹Queen Mary University of London, ²University of Glasgow	EuMC28 Innovative Additive Fabrication Techniques Chair: Nicolas Delhote¹ Co-Chair: Talal Skaik² ¹XLIM Research Institute, University of Limoges, Limoges, France, ²Filtronic	EuMC29 Special Session on Green Energy Transmitting and Harvesting RF/Millimetre-wave/Microwave Devices and Internet of Things Sensors Chair: Sunday C. Ekpo¹ Co-Chair: Z. Elsaraf¹, N. Karimian¹, M. Uko¹ ¹Manchester Metropolitan University	EuMC30 Digital Linearization Techniques Chair: Pere L. Gilabert¹ Co-Chair: Anding Zhu (TBC)² ¹Universitat Politècnica de Catalunya, ²University College Dublin
14:10 – 14:30	EuMC27-1 ResNet-based Root-MUSIC for Accurate mmWave DOA Estimation under Gain/Phase Mismatches Yuval Ginzberg¹, Alon Zuareztz¹, Emanuel Cohen¹ ¹Technion - Israel Institute of Technology	EuMC28-1 A Print-in-Place Approach for Realizing On-Chip Air-Core Micro-Inductors Enabled by Micro-3D Printing Genaro Soto-Valle¹, William Samo¹, Fernando Pastrana Aguirre¹, Nikolas Roeske¹, Marvin Joshi¹, Manos M. Tentzeris¹ ¹Georgia Institute of Technology	EuMC29-1 Antenna Booster Technology Meets Nature: Empowering Forest Resilience through Green Connectivity Jaume Anguera¹ ¹Ignion	EuMC30-1 Complexity Reduction in RF Power Amplifier Behavioral Models by Zero-Gating Jorge Muñoz-Bautista¹, Thomas Eriksson¹, Koen Buisman¹ ¹Chalmers University of Technology
14:30 – 14:50	EuMC27-2 Estimating Mutual Coupling in Linear Patch Antenna Arrays Using an EEP-Based Method Ramonika Sengupta¹, Jacki Gilmore², Annie Cuyt³ ¹Eindhoven University of Technology (TU/e), ²Stellenbosch University, ³University of Stirling	EuMC28-2 Inkjet-printed Bandpass Filters Using Double-sided-shortened Folded Waveguide Resonators Berkay Dogan¹, Finbarr Waldron², Dimitra Psychogiou¹ ¹School of Engineering, University College Cork, Cork, T12 K8AF, Ireland, ²Tyndall National Institute, Cork, T12 R5CP, Ireland, ³Tyndall National Institute, University College Cork, Ireland	EuMC29-2 Nanostructured Optical Supersubstrors for Energy Harvesting, Infrared Emitters, Heat Management in Spacecraft and Mimicking Flat Lensing José Anguita¹ ¹University of Surrey	EuMC30-2 Dual-Loop Learning Control Architecture for Efficient Digital Predistortion Dimuthu Lesthuruge¹, Bilal Khan¹, Nuutti Tervo¹, Marko E. Leinonen¹, Nandana Rajatheva¹ ¹University of Oulu
14:50 – 15:10	EuMC27-3 Design of a Wideband Unit Cell for Ka-Band SatCom Transmitarrays Luis DE LA CRUZ PAINADO¹, André Barka¹, Hamza Kaouch² ¹ONERA, FR, ²LAPLACE/Toulouse-INP	EuMC28-3 Additively-Manufactured Coaxial Transmission Lines Konstantinos Keramidis¹, Ghassen Brinis², Dimitra Psychogiou¹ ¹University College Cork and Tyndall National Institute, ²Stryker	EuMC29-3 Green Radio Frequency-Free-Space Optics Subsystems Design Considerations for 5G/6G Satellite-Cellular-Wi-Fi Applications M. Uko¹ ¹Manchester Metropolitan University	EuMC30-3 Neural Network-Based Nonlinear Interpolation for Digital Predistortion With Bandlimited Feedback for Wideband Power Amplifiers Bilal Khan¹, Dimuthu Lesthuruge¹, Praneeth Susarla¹, Marko E. Leinonen¹, Aarno Pärssinen¹, Nuutti Tervo¹ ¹University of Oulu
15:10 – 15:30	EuMC27-4 A Modular Stripline Series-Fed Antenna Array for Ku-Band Satellite Communications Ageela Saghir¹, Rossella Gaffoglio², Giuseppe Musacchio Adorisio³, Giorgio Giordanengo³ ¹Advanced Computing, Photonics & Electromagnetics, Fondazione LINKS, Torino, Italy, ²Fondazione LINKS, Torino, Italy	EuMC28-4 Low-Complexity 3D-Printed Monolithic Dielectric Cover-Lens Structure for Flexible Gain Enhancement of Sub-THz On-Chip Antennas Leonhard Hahn¹, Tobias Bader¹, Tim Pfähler¹, Christian Carlowitz¹, Gerald Gold¹, Martin Vossiek¹ ¹Friedrich-Alexander Universität Erlangen-Nürnberg	EuMC29-4 Hybrid Substrates Development for Ultrawideband Transvester-enabled RF/Microwave/Millimetre-wave Transceiver and Transponder Applications Sunday C. Ekpo¹ ¹Manchester Metropolitan University	EuMC30-4 Spatially-Aware Digital Pre-Distortion of Massive MIMO Transmitters Mohamed Hamid¹, Ömer Gemici¹, David Astely¹, Ulf Gustavsson¹, Sara Hesami¹, Shipra Shipra¹, Thomas Eriksson¹ ¹Ericsson AB, ²Chalmer University of Technology
15:30 – 15:50	EuMC27-5 Frequency Diverse Array-Based Virtual Point Source Feed for Virtual Parabolic Reflector Antennas and its Equivalent Radiating Aperture Realisation Altunkan Hizal¹, Ramazan Cetiner¹, Hayrullah Yildiz² ¹ASELSAN, ²Baskent University, Ankara/Turkey	EuMC28-5 Toward the Tiniest 3D Printed RF Interconnects for sub-THz Applications Hiba Lahlimi Alami¹, Cyril Guines¹, Nicolas Delhote¹, Aurelien Perigaud¹, Damien Passerieux¹, Sébastien Rougier¹, Stéphane Billa¹, Pedro Rynkiewicz² ¹Xlim - UMR 7252 - CNRS- Limoges University, ²French space agency (CNES)	EuMC29-5 Green Connectivity Solutions for Sustainably Designed and Manufactured Drones and Other Low-Altitude Flying Assets Balaji Perumal¹ ¹Anya Consultancy Services	EuMC30-5 Feasibility Study of Using Air-Comp for DPD Adaption in MIMO System Linearization Minghan Liu¹, Siqi Wang², Julien Sarrazin¹, Aziz Benlarbi Delai¹ ¹Sorbonne Université
15:50 – 16:10		EuMC28-6 3D-Printed Sub-THz Chip-to-Chip Interconnect Using Planar Dielectric Image Line Technology Leonhard Hahn¹, Tobias Bader¹, Johannes Fleischmann¹, David Panusch¹, Johannes Ringel¹, Christian Carlowitz¹, Martin Vossiek¹ ¹Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg		EuMC30-6 Out-of-Band Weighted Blind Digital Post-Distortion for Non-linear RF Receivers Under Strong Adjacent Channel Interference Shipra Shipra¹, Siqi Wang², Thomas Eriksson¹ ¹Chalmers University of Technology, Gothenburg, Sweden, ²Lab. de Génie Electrique et Electronique de Paris (GeePs), Sorbonne Université, CNRS, Paris, France, ³Lab. GeePs, CentraleSupélec, Université Paris-Saclay, CNRS, Gif-sur-Yvette, France

WEDNESDAY 14:10 – 16:10

ROOM	Room 13	Room 14	Room 17
	EuMC31 Focused Session on Advanced Rectifiers and Rectennas for Microwave Power Transmission Chair: Changjun Liu¹ Co-Chair: Simon Hemour² ¹Sichuan University, ²IMS Bordeaux (U.Bordeaux)	EuMC32 Techniques for Material Characterization: From Waveguide Alignment to Permittivity Measurement Chair: Denis Barataud¹ Co-Chair: Francesca Schenkel² ¹Xlim - UMR 7252 - CNRS- Limoges University, ²Ruhr-Universität Bochum	EuMC33 Recent Advances in Electromagnetic Theory and Computational Numerical Techniques Chair: Alessandro Galli¹ Co-Chair: Anthony Ghiotto² ¹Sapienza University of Rome, ²University of Bordeaux
14:10 – 14:30	EuMC31-1 A Simplified Frequency-Power-Efficiency Measurement Technique for Microwave Rectifiers with 3D Efficiency Mapping Neil Buchanan¹, Kieran Rainey² ¹Queen's University Belfast, ²Queens University Belfast	EuMC32-1 Comparison of Rectangular Waveguide Interface Alignment Performance at sub-THz Frequencies James Skinner¹, Daniel Koller², Nick Ridler¹ ¹National Physical Laboratory (NPL), UK, ²Virginia Diodes Inc	EuMC33-1 Recent Advances in Vector-Fitting Based Neuro-TF Methods for EM Parametric Modeling Feng Feng¹, Jinyi Liu¹, Qi-Jun Zhang² ¹Tianjin University, ²Carleton University
14:30 – 14:50	EuMC31-2 Nitrogen-Implanted Edge-Terminated β-Ga2O3 Schottky Barrier Diodes for High-Voltage Microwave Rectifier Applications Xiaochen Yu¹, Jiafeng Zhou¹, Chaoyun Song², Haoran Wang³, Roy King-Yuen Wong³ ¹University of Liverpool, ²King's College London, UK, ³National Tsing Hua University	EuMC32-2 Spatial Dependent Permittivity Determination Using Complex Source Beam Focusing Irwin Barengolts¹, Manuel Funk¹, Javagar Mahendran¹, Ali Al-Tayar¹, Tobias Körner¹, Kristof Dausien¹, Christian Schulz¹, Ilona Rolfes¹, Jan Barowski¹ ¹Institute of Microwave Systems, Ruhr University Bochum, Bochum, Germany	EuMC33-2 Practical Application of Randomized Space Mapping Joaquín Valencia¹, Belén Perelló-García², Francisco Pastor-Naranjo³, Jose-Vicente Morro Ros³, Marco Guglielmi¹, Vicente Enrique Boria-Esbert⁴ ¹Team (Technical Univ. Valencia), ²Technical university of Valencia
14:50 – 15:10	EuMC31-3 Fully Integrated, 11 Watt, S-Band GaN MMIC Active Rectifier Ayush Bhatta¹, Greg Medwig¹, Shahid Ali Khan¹, Spyridon Pavlidis¹, David Ricketts¹ ¹North Carolina State University, USA	EuMC32-3 Complex Permittivity Characterization Using a Backscattering Approach Compatible with Low-loss RF Dielectrics Mohsen Shafeghati¹, Etienne Perret¹ ¹Univ. Grenoble Alpes, Grenoble INP	EuMC33-3 MNN-Incorporated Common-Pole MOR-based Neuro-TF Method for EM Parametric Modeling of Microwave Components Jinyi Liu¹, Feng Feng¹, Xiaolong Li¹, Ke Liu¹, Jiali Zhang¹, Qi-Jun Zhang² ¹Tianjin University, ²Carleton University
15:10 – 15:30	EuMC31-4 A 3.5 W Rectified DC Output Power Quasi-Vertical Diamond SBD in 2.45 GHz-Band Kosuke Saito¹, Takuma Seki¹, Ryunosuke Saito¹, Tomoyuki Furuichi¹, Yuji Kato¹, Hitoshi Umezawa², Noriharu Suematsu¹ ¹Research Institute of Electrical Communication, Tohoku University, ²Ookuma Diamond Device Co., Ltd. Japan	EuMC32-4 Impact of the Ambient Relative Humidity on the Relative Permittivity of PCB Substrates Rasmus Mentzer¹, Nico Weiss¹, Alexander Kölpin¹ ¹Institute of High-Frequency Technology, Hamburg University of Technology	EuMC33-4 Modal Representation of Asymmetric Coupled Transmission Lines Using TRL-Constrained Rotation Koki Mochida¹, Satoshi Tanaka¹, Takeshi Yoshida¹, Shuhei Amakawa¹, Minoru Fujishima¹ ¹Hiroshima University
15:30 – 15:50	EuMC31-5 A 2.45/5.8 GHz Dual-Band Rectenna Using Independent Matching Networks for RF Energy Harvesting Kai Song¹, Changjun Liu¹, Liping Yan¹ ¹Sichuan University	EuMC32-5 A Microwave Oscillator for High Sensitivity Liquid Characterization Melania St.Cyr¹, Azin Zarrasvand², Negar Reiskarimian¹ ¹Massachusetts Institute of Technology, ²Draper	EuMC33-5 A RT-FDTD Hybrid Framework for Electromagnetic Wave Propagation in Multiscale Environments Huseyin Kayihan Comert¹, Aristeidis Lamprianidis², Antonios Giannopoulos³, Yun Chen¹, Amelie Hagelauer⁴ ¹Huawei Heisenberg Research Center Munich, Germany, ²Independent Researcher, ³The University of Edinburgh, ⁴Fraunhofer Institute for Electronic Microsystems and Solid State Technologies EMFT
15:50 – 16:10			EuMC33-6 The Role of Apertures on Electric Field Diffusion in Unstirred Enclosure Jun-Yeong Choi¹, Jung-Hoon Han¹, Jae-Wook Lee¹ ¹Korea Aerospace University

WEDNESDAY 14:10 – 16:10

ROOM Room 8 - 11

EuRAD01
EuRAD Opening

14:10 – 14:40 Welcome Address: Opening of the European Radar Conference 2026

David Greig^{*}

^{*}Leonardo UK

14:40 – 15:25 Air Defence & Self Protection Radars: How Future Battlefield Radars are Combining Defence & Automotive Technology

André Hanewinkel ^{*}

^{*}Hensoldt Sensors GmbH

Modern Warfare is defining new requirements for battlefield radar sensors in frontline operations. Combat vehicles and their crew are facing threats from infantry to UAVs over missiles to projectiles, while they are moving through the field. Detecting various kinds of targets in parallel over certain kinds of radar cross sections and speeds in parallel, is the new challenge for radar sensor engineering. This Keynote Speech is reviewing, how a combination of classical air defence radar architecture, new AESA Hardware, AI-Algorithms plus automotive technology is enriching next generation radar sensors, to keep pace with this evolution on the battlefield.

15:25 – 16:10 Beyond Monostatic Limits: A Global LBMР Approach to GEO Tracking and Detection

Marco Martorella^{*}

^{*}University of Birmingham

Space Domain Awareness (SDA) is entering a phase where scalability, sensitivity, and global collaboration are no longer optional, they are operational imperatives. This keynote presents the evolution and demonstration of a novel Large Baseline Multistatic Radar (LBMР) concept, which leverages geographically distributed transmitting and receiving assets to enhance detection and tracking performance in the geostationary orbit (GEO) regime. By pairing high-power transmitting radars with highly sensitive passive receiving systems, including radio telescopes and large-aperture satellite communication antennas, we establish a bistatic and multistatic sensing architecture that improves signal-to-noise ratios and introduces spatial diversity. This approach enables the detection and characterization of smaller, more distant objects in MEO/GEO that are beyond the reach of conventional monostatic radar systems. The LBMР initiative builds directly on collaborative efforts within the NATO Science and Technology Organisation (STO), particularly through the Sensing Technology (SET)

Panel activities (SET-293 and SET-340), which have already federated a multinational network of sensors and expertise. This keynote traces the journey from conceptual framework to real-time operational demonstration, highlighting how existing, dual-use infrastructure can be repurposed to deliver high-impact SDA capabilities without the need for costly new deployments. Key technical challenges, including synchronization across large baselines, waveform compatibility, and advanced signal processing for weak target detection, are addressed, with emphasis on the algorithms and methodologies enabling coherent integration across heterogeneous systems. The presentation will showcase multiple real-data examples collected over the past six years, illustrating detection performance and visual analytics outputs. Ultimately, this work demonstrates a scalable and cost-effective pathway for expanding global SDA capacity, particularly for nations with limited resources, by harnessing the latent potential of existing assets through coordinated, multistatic operation.

WEDNESDAY 16:50 – 18:30

ROOM	Room 4	Room 7	Room 14	Room 17
	EuMC34 RF Exposure Modeling and Characterization of Biological Materials Chair: Katia Grenier ¹ Co-Chair: Micaela Liberti ² ¹ LAAS-CNRS, ² Sapienza University of Rome	EuMC35 Load-Modulated Power Amplifiers Chair: José Carlos Pedro ¹ Co-Chair: Anna Piacibello ² ¹ Universidade de Aveiro - IT, ² Politecnico di Torino	EuMC36 Advanced Characterization of RF Devices and Systems Chair: Mauro Marchetti ¹ Co-Chair: Marco Spirito ² ¹ Maury Microwave, ² Delft University of Technology	EuMC37 Antenna/Metasurfaces Design and Imaging Techniques Chair: Jakub Sorocki ¹ Co-Chair: Nicolò Delmonte ² ¹ AGH University of Science and Technology, ² Dept. of Electrical, Computer and Biomedical Engineering, University of Pavia
16:50 – 17:10	EuMC34-1 The pros and cons of the scanning field probe and infrared imaging methods for APD evaluation Massinissa ZIANE ¹ , Lukman HENDRAJAYA ² , Maxim Zhadobov ³ , Artem BORYSKIN ⁴ ¹ NOKIA , ² IETR - UMR CNRS 6164 - UNIVERSITÉ DE RENNES, ³ WAVELIS	EuMC35-1 Multi-Subharmonic Switching Driving for GaN Digital Class-E Doherty Power Amplifiers Deguang Sun ¹ , Giulia Bartolotti ² , Anna Piacibello ² , Vittorio Camarchia ² , Andreas Wentzel ¹ ¹ Ferdinand-Braun-Institut, ² Politecnico di Torino	EuMC36-1 Dynamic Range Comparison of SFCW and FMCW Waveforms for Vector Network Analysis Ali Al-Tayar ¹ , Justin Romstadt ² , Vincent Lange-Nowak ² , Nils Pohl ² , Ilona Rolfes ² , Jan Barowski ¹ ¹ Institute of Microwave Systems, Ruhr University Bochum, ² Institute of Integrated Systems, Ruhr University Bochum	EuMC37-1 Propagation-Compensated Fourier Neural Operator for High-Resolution Near-Field Reconstruction Hyunlim Lee ¹ , Wonhyo Kim ¹ , Chihyun Cho ² , Youngwook Kim ¹ ¹ Sogang University, ² Korea Research Institute of Standards and Science (KRISS)
17:10 – 17:30	EuMC34-2 Impact of Electromagnetic Wave Coupling on Bacillus anthracis Multi-Cell Models: Implications for DNA Release and Inactivation Pathways Amir Ghassabi ¹ , Giulia Risca ¹ , Martina Persechino ¹ , Shivangi Shukla ² , Heungjae Choi ³ , Catrin F. Williams ² , Francesca Apollonio ¹ , Micaela Liberti ¹ ¹ Sapienza University di Roma, ² Cardiff Univeristy	EuMC35-2 A 4-6 GHz GaN MMIC Switchless-Class-G Power Amplifier Mitigating Gain and Efficiency Collapse at Saturation Shun Wan ¹ , Guansheng Lv ² , Wenhua Chen ¹ , Dehan Wang ¹ , Wenming Li ² ¹ Tsinghua university, ² Beijing Institute of Technology, China, ³ ZTE Corporation	EuMC36-2 Development and Experimental Validation of an SDR-Based Near-Field Measurement System for 5G mmWave Antennas Kazuha Ito ¹ , Kazuhiro Fujimori ¹ , Takuma Akada ¹ , Yuhji Akiyama ¹ , Toshiyasu Tanaka ² ¹ Graduate School of Natural Science and Technology, Okayama University, ² T&A Co., Ltd.	EuMC37-2 Formulas for the Reflection Phase in THz Devices based on Homogenized Metasurfaces Stella Ventucci ¹ , Stella Ventucci ¹ , Edoardo Negri ² , Paolo Burghignoli ¹ , Dimitrios Zografopoulos ³ , Walter Fuscaldo ⁴ , Alessandro Galli ¹ ¹ Sapienza University of Rome, Italy, ² CNR-IMM, Consiglio Nazionale delle Ricerche, Rome, Italy, ³ Aristotle University of Thessaloniki, GR, Thessaloniki
17:30 – 17:50	EuMC34-3 Surface-Wave Skin Characterization with a Flexible Vivaldi Antenna: Experimental Validation Shangyang Shang ¹ , Milad Mokhtari ¹ , Milica Popović ¹ ¹ McGill University	EuMC35-3 A 2-GHz 150W Load-modulated PA Achieving Above 50% Efficiency Across 20-dB Back-Off Range Wang Liu ¹ , Luís Côtimos Nunes ² , Filipe Barradas ² , Pedro Miguel Cabral ² , José Carlos Pedro ¹ , Qiang Liu ¹ ¹ College of Electrical and Information Engineering, Hunan University, Changsha, China, ² Instituto de Telecomunicações, Universidade de Aveiro	EuMC36-3 Characterization of High-Power RF Saturation in UTC-PDs Using a Pulsed-Laser Measurement Technique amirmohammad miran zadeh ¹ , Nikolaos Poupouridis ¹ , Andrea Pertoldi ² , Florian Emaury ² , Sara Hamzeloui ¹ , Rinchin Choki Bhutia ¹ , Olivier J. S. Ostinelli ¹ , Colombo R. Bolognesi ¹ ¹ ETHZ, ² Menhir Photonics	EuMC37-3 A Self-Inclusive Polarimetric Finite-Array Coupling Network for Scan-Dependent Active Reflection Coefficient Prediction Jeff Massman ¹ ¹ Analog Devices Inc.
17:50 – 18:10	EuMC34-4 Electric-Field Probe Design for Microwave-Based Non-invasive Leukemia Detection Koyuki Makabe ¹ , Masaya Tamura ¹ ¹ Toyohashi University of Technology	EuMC35-4 Compact Low-Cost Three-Stage Load-Modulated Power Amplifier Design Using Generalized Coupler Pengyu Yu ¹ , Kwok-Keung Michael Cheng ¹ , Jieen Xie ¹ ¹ The Chinese University of Hong Kong	EuMC36-4 A Temperature-Controlled Noise Parameter Measurement Framework for Low-Frequency Lunar-Based Radio Telescopes Luuk Kool ¹ , Rehan Akmal ¹ , David Prinsloo ² , Elmine Meyer ¹ , Ulf Johannsen ¹ ¹ TUe, ² ASTRON Netherlands Institute for Radio Astronomy	EuMC37-4 AlphaGo for Antennas: a Generative Machine Learning Framework for Inverse Topology Synthesis and Optimization of Planar Antennas Xiaobo Wang ¹ , Moein Nazari, Suomin Cui, Gang Kang, Jiang Zhu, Djordje Tujkovic, Zhongde Wang, Jian Liu ¹ Cadence Design Systems
18:10 – 18:30		EuMC35-5 A Q-Band GaN Doherty-Like OLMBA with Single RF Input Daje Weber-Trebesch ¹ , Christian Friesicke ¹ , Leon Hertle ¹ , Thomas Maier ¹ , Fouad Benkhelifa ¹ , Rüdiger Quay ¹ ¹ Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics	EuMC36-5 Wafer-Level Cryogenic Noise Parameters Measurement System Daniil Frolov ¹ , Jean-Olivier Plouchart ¹ , Utku Soylu ¹ ¹ IBM T. J. Watson Research Center	EuMC37-5 PPW-Based Decoupling Technique for the Analysis of Integrated Lens Antennas Erik Speksnijder ¹ , Riccardo Ozzola ¹ , Andrea Neto ¹ ¹ Delft University of Technology, The Netherlands

WEDNESDAY 16:50 – 18:30

ROOM	Room 1	Room 6	Room 13
	EuRAD02 Enabling Technologies for Novel Sensing Systems Chair: Michail Antoniou¹ Co-Chair: David Greig² ¹Univerisity of Birmingham, ²Leonardo UK	EuRAD03 Advanced Automotive Radar Signal Processing Chair: Igal Bilik¹ Co-Chair: Kamel Haddadi² ¹Ben-Gurion University of the Negev, ²University of Lille, CNRS / IEMN	EuRAD04 AI-Based Enhancement of Radar Data Chair: Marina Gashinova¹ Co-Chair: Victoria Nockles² ¹University of Birmingham, ²The Alan Turing Institute
16:50 – 17:10	EuRAD02-1 Coherent Optical ISAR Imaging using Dual-Axis Motion Tracking Florentin Junghanns¹, Christian Waldschmidt¹, Mario Mueh¹ ¹Institute of Microwave Engineering, Ulm University	EuRAD03-1 Synthetic Automotive Radar Point Cloud Generation using a Conditional Variational Autoencoder Ankush Roy¹, Justin Dauwels¹, Francesco Fioranelli¹, Geethu Joseph¹, Ashish Pandharipande² ¹Delft University of Technology, The Netherlands, ²NXP / Eindhoven University of Technology (TU/e)	EuRAD04-1 X-Band SAR Semantic Segmentation for Scenario Recognition in Cognitive Radar Systems Amir Hosein Oveis¹ ¹RaSS Center – CNIT
17:10 – 17:30	EuRAD02-2 A Use Case for Quantum Radar Signal Processing: Opportunities and I/O Limitations Ronny Harmanny¹, Robin van Gaalen¹ ¹Thales Nederland B.V.	EuRAD03-2 PN-PCT: A Hybrid Point-based Architecture for Automotive Radar Semantic Segmentation Admitos Rafail Passadakis¹, Justin Dauwels¹, Francesco Fioranelli¹, Ashish Pandharipande² ¹Delft University of Technology, The Netherlands, ²NXP / Eindhoven University of Technology (TU/e)	EuRAD04-2 PINN-Inspired Unsupervised SAR Despeckling with Pixel-Wise Adaptive Weighting Seunghui Jang¹, Yeonjae Kim¹, Youngwook Kim¹ ¹Sogang University
17:30 – 17:50	EuRAD02-3 A Fully Digital SSB Modulated FMCW Radar Tag for K-Band Manuel Rechberger¹, Simon Heining¹, Georg Zachl¹, Harald Pretl¹, Christoph Wagner², Reinhard Feger¹ ¹Johannes Kepler University Linz, ²Silicon Austria Labs GmbH	EuRAD03-3 Investigation of Effects of Front Grill Installation on 77 GHz Automotive Radar with Over-the-Air Testing Muhammad Luqman Nazar¹, Masoumeh Pourjafarian¹, Christian Bornkessel¹, Matthias A. Hein¹ ¹Technische Universität Ilmenau	EuRAD04-3 Drone Classification via Micro-Doppler Signatures in Digital Terrestrial Television Passive Radar Zhenghang Wang¹, Andrea Quirini², Fabiola Colone², Tao Shan¹, Xingshuai Qiao¹, Tianrun Wang¹ ¹School of Information and Electronics, Beijing Institute of Technology, ²Department of Information Engineering, Electronics and Telecommunications, Sapienza University of Rome, ³Beijing University of Posts and Telecommunications
17:50 – 18:10	EuRAD02-4 Motion Compensation of a Mast-Mounted Interferometric Radar Using GNSS-Synchronized Inertial Sensors Lapo Miccinesi¹, Andrea Cioncolini¹, Alessandra Beni¹, Luca Bigazzi¹, Lorenzo Pagnini¹, Massimiliano Pieraccini¹ ¹Department of Information Engineering, University of Florence	EuRAD03-4 Bumper Reflection Mitigation for Automotive Radar Filip Alexandru Rosu¹, Gabriela Enescu¹, Andrei Anghel¹, Silviu Ciocchina² ¹NXP Semiconductors, ²National University of Science and Technology POLITEHNICA Bucharest	EuRAD04-4 Deep Unfolded Gridless Sparse Recovery without Convex Relaxation for Bistatic Airborne Radar Clutter Suppression Weijun Huang¹, Tong Wang¹, Weichen Cui², Shenghua Zhou¹ ¹National Key Laboratory of Radar Signal Processing, ²State Key Laboratory of Aerospace Intelligent Control Technology
18:10 – 18:30	EuRAD02-5 RIS-Modulated Tag for Sensor Applications Using Low-Cost 24 GHz CW Radar Farid Morabet¹, Marc Lázaro Martí², Ramon Villarino², David Gírbau Sala¹, Antonio Ramon Lazaro² ¹Universitat Rovira i Virgili, ²Universidad Rovira i Virgili	EuRAD03-5 Robust DoA Estimation Based on SBL under Practical Error Factors in Automotive Radar Teppei Yoshida¹, Shingo Jinno¹, yoshie kobayashi¹, Yufeng Fu¹, Sungwoo Cha¹ ¹MIRISE Technologies Corp.	EuRAD04-5 A Clutter Suppression Algorithm via U-Net-structured Attention Deep Network for Airborne Radar Runze Hu¹ ¹Xidian University, China

THURSDAY 08:30 – 10:30

ROOM	Room 1	Room 6	Room 7	Room 9
	EuMC38 Metasurface and Leaky-Wave Antennas Chair: Stephen Hanham¹ Co-Chair: Kamil Yavuz Kapusuz² ¹Imperial College London, London, UK, ²imec	EuMC39 Design and Characterization Techniques Chair: Bahare Mohamadzade¹ Co-Chair: Dimitra Psychogiou² ¹CSIRO, ²University College Cork and Tyndall National Institute	EuMC40 LNAs, Phase Shifters, and Frequency Multipliers Chair: Nils Weimann¹ Co-Chair: Almudena Suarez Rodriguez² ¹University of Duisburg Essen, ²Universidad de Cantabria	EuMC41 Reconfigurable and MIMO Antennas Chair: Bart Smolders¹ Co-Chair: Xiaoming Chen ¹Eindhoven University of Technology (TU/e)
08:30 – 08:50	EuMC38-1 A flipped 3D-printed bull's eye antenna with dielectric-filled metal grooves Frederike Bartels¹, Dominik Langer¹, Sarah Klass¹, Alexander Kölpin¹ ¹Institute of High-Frequency Technology, Hamburg University of Technology, Germany	EuMC39-1 Antenna Characterization Methodology for Backside-Radiating D-Band Integrated Dielectric Resonator Antenna Array Using Teflon Fixture Kanaka Joy¹, Muhammad Faisal Bashir¹, Thomas Vol⁶, Jens Lehmann¹, Domke Jörg¹, Sascha Mehl¹, Elizabeth Bekker², Akanksha Bhutani², Matthias Wietstruck² ¹Leibniz-Institut für innovative Mikroelektronik, ²Karlsruhe Institute of Technology	EuMC40-1 Comparative Study of Residual Phase Noise Performance for various frequency Doubler Architectures Irfan Ashiq¹, Nicholas El-Takach², Sushil Kumar² ¹National Instruments, ²NI/Emerson	EuMC41-1 Tunable RF-Frontend UE Architecture Design Methodology for Beyond 5G System Ji-Young Kim¹, Sungjun Cho¹, Yeong-Ju Seo¹, Chanhee Lee¹, Haechan Kang¹, Jong-Won Yu¹ ¹Korea Advanced Institute of Science and Technology
08:50 – 09:10	EuMC38-2 Aperture Field Synthesis and Impedance Modulation of a Multi-beam and Dual Band Metasurface Subhadrita Ghosh¹, Gopika Reghunadhan², SWARNAD-IPTO GHOSH¹, Chinmoy Saha², Okan Yurduseven¹ ¹Queen's University Belfast, ²Indian Institute of Space Science and Technology, Thiruvananthapuram	EuMC39-2 Analysis of Echoic Conditions, Signal-to-Noise Ratio, and Angle of Arrival Effects on Active Phased Array Calibration Muhammad Rizqi¹, Guilherme Theis², Yanki Aslan¹ ¹TU Delft, MS3 / Robin Radar Systems, ²Robin Radar Systems, ³TU Delft, MS3	EuMC40-2 Linearly Controlled Phase Shifter using Folding Circuits with Polarity Reversal Switches Yotaro Mune¹, Anji Miura¹, Fuka Kamei¹, Hideyuki Nosaka¹ ¹Ritsumeikan University	EuMC41-2 Rotating Polarization Multiplexing toward Single-Antenna MIMO Systems Takashi Maehata¹, Eiji Mochida¹ ¹Sumitomo Electric Industries Ltd. Japan
09:10 – 09:30	EuMC38-3 E-Band Fully Metallic Frequency-Scanning Slotted-Waveguide Antenna for Automotive Radar Ferran Zafrilla-Magraner¹, Alejandro García-Tejero¹, Miguel Ferrando-Rocher², Jose I. Herranz-Herruzo², Francesco Merli¹ ¹HUBER+SUHNER AG, ²Team - Universitat Politècnica de València	EuMC39-3 Design of an Ultra-Wideband Plane Wave Generator for Low-Frequency Antenna Measurements Xinzhong Li¹, Jungang Miao¹ ¹Beihang University (BUAA)	EuMC40-3 A Frequency-Reconfigurable Filtering Low-Noise Amplifier for 5G New Radio Refarming Bands Ruipeng Zhang¹, Jiteng Ma¹, Qufei Qian¹, Xiaoqiang Gu¹, Andrew C. M. Austin¹ ¹University of Bristol	EuMC41-3 Reconfigurable Circularly Polarized Antenna Array with Reconfigurable Scattering Characteristics Jiachen Wu¹, Yuchen Gao¹, Wen Jiang¹, Jie Liu¹ ¹Xidian University
09:30 – 09:50	EuMC38-4 Analysis of a Simple Surface Wave Guiding Method and Application to Planar Leaky-Wave Antennas Qifeng Shen¹, Sadia Riaz², Alois Freundorfer², Symon K. Podlichak¹, Yahia Antar¹ ¹The University of Edinburgh, ²Queen's University, ³The Royal Military College of Canada	EuMC39-4 Vector Spherical Harmonics Reconstruction of Active Phased Array Radiation Patterns from Sparse Measurements Máté László Iványi¹, Tworit Dash¹, Yanki Aslan¹, Marco Spirito¹, Claire Migliaccio², Jean-Yves Dauvignac², Laurent Brochier², Alexander Yarovoy¹ ¹Delft University of Technology, ²University Cote d'Azur	EuMC40-4 Variable Gain Phase Shifter Using Folding Circuits with Gilbert Cell Multipliers Ryuma Naruki¹, Yotaro Mune¹, Anji Miura¹, Fuka Kamei¹, Hideyuki Nosaka¹ ¹Ritsumeikan University	EuMC41-4 Reconfigurable All-Digital Transmitter with Multi-User Support and FPGA-based Beamforming Ricardo Nunes¹, Luis Almeida¹, Tiago Varum¹, Arnaldo Oliveira¹ ¹Universidade de Aveiro / Instituto de Telecomunicações
09:50 – 10:10	EuMC38-5 Preliminary Design of Ultrawide-band Flat Leaky Lenses Erik Speksnijder¹, Cesare Tadolini¹, Paolo Sberna¹, Riccardo Ozzola¹, Andrea Neto¹ ¹Delft University of Technology, The Netherlands	EuMC39-5 Design of a Compact Ka-Band Dynamic Scattering Array Based on Monopoles Via-Etched on a Planar Substrate for Future 6G Networks Simone Trovarello¹, Michele Cocchi¹, Giulia Battistini¹, Diego Masotti¹, Alessandra Costanzo¹ ¹University of Bologna	EuMC40-5 Analysis and Design of a 10.7-12.7 GHz GaN LNA with Integrated LC-Ladder-Network-based Notch Filters for Ku-band Satellite Communications Wei Huang¹, Quan Pan¹, Xiaohu Fang¹ ¹Southern University of Science and Technology, Shenzhen, China	EuMC41-5 A 5.8-GHz Single-Element 4-Port Dual-Polarized MIMO DRA With Inter-Modal Decoupling via Null-Point Placement Haechan Kang¹, Young-Jun Lim¹, Hyeon-Jeong Cho¹, Sungjun Cho¹, Yeong-Ju Seo¹, Jong-Won Yu¹ ¹Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
10:10 – 10:30	EuMC38-6 Additively Manufactured OAM Generator Metasurface with Risley Prism for Stratgic Beam Steering and Communication Akhilesh Kumar¹, Amit K Singh¹, Aakash Bansal¹, William Whittow² ¹Indian Institute of Technology, Patna, ²Loughborough University, Loughborough	EuMC39-6 Dual-Polarized Dynamic Metasurface Antenna Based on Degenerate Modes Vitor Carvalho de Almeida¹, Ramez Askar¹, Michael Peter¹, Wilhelm Keusgen¹ ¹Fraunhofer Heinrich Hertz Institute, ²Technische Universitaet Berlin	EuMC40-6 A 2.5-3.5 GHz Active Cold Noise Source Joseph Dunbar¹ ¹Univ. of Colorado, Boulder	EuMC41-6 Compact, Wideband, Circularly-Polarized Reconfigurable Metasurface Antenna Zhentian Wu¹, chen chen¹, Xiaoming Chen¹, Xin Fang¹ ¹Anhui University

THURSDAY 08:30 – 10:30

ROOM	Room 13	Room 17	Room 4	Room 8
	EuMC42 Reconfigurable Intelligent Surfaces Chair: Maria García-Vigueras¹ Co-Chair: Esteban Menargues² ¹IETR, INSA Rennes, ²Swissto12 SA	EuMC43 Advanced Millimeter-Wave and Sub-THz Sensing, Imaging, and Communication Systems Chair: Alexander Kölpin¹ Co-Chair: Fabian Lurz² ¹Hamburg Uni. of Technology, ²Otto-von-Guericke Uni. Magdeburg	EuRAD05 Advanced Automotive Radar Signal Processing Chair: Kamel Haddadi¹ Co-Chair: Anum Pirkani² ¹University of Lille, CNRS / IEMN, ²The University of Birmingham	EuRAD06 Radar System Simulators Chair: Hugh Griffiths¹ Co-Chair: Martin Vossiek² ¹University College London, ²Friedrich-Alexander University Erlangen-Nürnberg (FAU)
08:30 – 08:50	EuMC42-1 Demonstration of Coverage Area Expansion by a Morphic RIS Using an Elastic Substrate at 140 GHz Band Yuki Tankawa¹, Atsushi Sanada¹ ¹The University of Osaka	EuMC43-1 All-Electronic 240 Gbps Over-the-Air Communication Link Demonstration at 300 GHz Benjamin Schoch¹, Simon Haussmann¹, Lukas Gebert¹, Aleks Dyskin¹, Elad Mentovich¹, Axel Tessmann¹, Jean-Pierre Teyssier¹, Ingmar Kallfass¹ ¹Institute of Robust Power Semiconductor Systems (ILH), University of Stuttgart, ²NVIDIA, ³Fraunhofer Institute for Applied Solid State Physics (IAF), ⁴Keysight Technologies	EuRAD05-1 Tracking-aided Ego-motion Estimation for Automotive MIMO Radar Taoyue Wang¹, Sen Yuan¹, Alexander Yarovoy¹, Francesco Fioranelli¹ ¹TUDELFT	EuRAD06-1 Measurement-based Enhanced Digital Radar Twin for High-fidelity Radar Simulation Oliver Sura¹, Patrick Fenske², Desar Mejdani¹, Peter Mergenthaler¹, Max Heidbrink¹, Tim Pfahler¹, Marcel Hoffmann¹, Martin Vossiek¹ ¹Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg, ²fiveD GmbH
08:50 – 09:10	EuMC42-2 Experimental Validation of a Ka-Band VQ2-Switched RIS Unit Cell with Embedded Bias Routing and Beam-Steering Demonstration Áfsaneh Hojjati-Firoozabadi¹, Raafat R. Mansour¹ ¹University of Waterloo	EuMC43-2 Ku-Band Satellite Signals for Rain Rate Estimation: Performance Limits and 215-Link Validation Haofan Dong¹, Ozgur B. Akan¹ ¹University of Cambridge	EuRAD05-2 Motion-Adaptive 360° Multi-Radar Imaging Using Self-Sustained Doppler Beam Sharpening Max Heidbrink¹, Marc Reinecke¹, Oliver Sura¹, Martin Vossiek¹ ¹Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg	EuRAD06-2 Point-to-Point: Optimizing Radar Models via Attribute-Sensitive Metrics to Bridge the Reality Gap Markus Schmidt¹, Agnes Widera², Sarah Neugebauer¹, Moritz Kahlert¹, Claas Tebrügge¹, Torsten Bertram¹ ¹HELLA GmbH & Co. KGaA, ²RWTH Aachen University, Germany, ³TU Dortmund University, Germany
09:10 – 09:30	EuMC42-3 Over-the-Air Characterization of a Reconfigurable Intelligent Surface Using Time-Domain Gating Giovanni Lasagni¹, Marco Badii¹, Stefano Maddio¹, Stefano Selleri¹, Monica Righini¹, Giovanni Collodi¹, Alessandro Cidonali¹ ¹Università degli Studi di Firenze	EuMC43-3 PMMW Imaging of Ship Turbulent Wake: Simulation and Measurement Verification Huimin Xiong¹, Yayun Cheng¹, Kunmiao Huang¹, Nannan Wang¹, Jiahui Fu¹ ¹Harbin Institute of Technology	EuRAD05-3 Improved Range Separability and Maximum Velocity for Automotive FMCW Radar via Frequency-Stepped Chirp Alexandru Girdianu¹, Filip Alexandru Rosu¹, Andrei Anghel¹ ¹NXP Semiconductors, ²Research Center for Spatial Information- CEOSpaceTech, Politehnica University of Bucharest	EuRAD06-3 Validation of SARCASTIC v2.0 Simulated Synthetic Aperture Radar Data Against Digitally Twinned Laboratory Measurements Michael Woollard¹, Daniel Andre², Hugh Griffiths¹, Matthew Ritchie¹ ¹University College London, ²Cranfield University, UK
09:30 – 09:50	EuMC42-4 A 28-GHz Reconfigurable Intelligent Surface with Continuous Phase Control: Implementation and Experimental Validation Spandan Manna¹, Florian Reher¹, Karim El Isa¹, Amar Al-Bassam¹, Dirk Heberling¹ ¹Institute of High Frequency Technology, RWTH Aachen University, ²Fraunhofer FHR (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR)	EuMC43-4 A Fully-Integrated 61 GHz ISM-Band CW SIMO Medical Radar for Multi-Patient Monitoring Batuhan Sutbas¹, Vladica Sark¹, Yanhua Zhao¹, Ayse Ecem Bezer², Uwe Maaß², Alexander Gäbler¹, Robert Holzschuh¹, Hui Lu¹, Mohamed Hussein Eissa¹, Wolfgang Heinrich¹, Corrado Carta¹, Gerhard Kahmen¹ ¹IHP Leibniz-Institut für Innovative Mikroelektronik, ²Fraunhofer IZM, ³Medizinische Universität Lausitz - Carl Thiem, ⁴Brandenburgische Technische Universität, ⁵Ferdinand Braun Institut (FBI), ⁶Technische Universität Berlin	EuRAD05-4 A Generic Virtual-Transmitter Decoder for Velocity Disambiguation in DDMA MIMO FMCW Radar Léa Volpin¹, Betrand Le Gal², Guillaume Ferré², Dominique Delbecq¹ ¹IMS Bordeaux / NXP Semiconductors, France, ²IRISA Rennes, ³IMS Bordeaux, ⁴NXP Semiconductors, France	EuRAD06-4 From Lidar Point Clouds to Semi-Synthetic Radar Representations in Automotive Scenes Avinash Nittur Ramesh¹, Aitor Correas-Serrano¹, Maria A. Gonzalez Huici¹ ¹Fraunhofer FHR
09:50 – 10:10	EuMC42-5 Non-line-of-sight Multi-Polarization 802.15.3d Link enabled by RIS Dutin Frédéric¹, Rita Younes¹, Pascal Szriftgiser¹, Victor Torres¹, Jorge Teniente², Itziar Maestrojuán Biurrun¹, Chun-Lan Qin¹, Greg Jue¹, Guillaume Ducournau¹ ¹Univ. Lille, ²Public University of Navarre, ³Keysight Technologies	EuMC43-5 A low-complexity Range-Dependent Resampling Technique for Accurate Large-Scale Motion Sensing Based on FMCW Radar Systems Yiyan Cao¹, Jiayu Zhang¹, Changzhan Gu¹ ¹Shanghai Jiao Tong University	EuRAD05-5 OFDM Radar Processing Scheme with Improved Robustness to Off-Grid Doppler Frequency Shift Ruoyu Feng¹, Marc Bauduin¹, André Bourdoux¹ ¹imec	EuRAD06-5 ARIFOMA: A Traffic-Driven Simulation Framework for Automotive Radar Interference Evaluation Arianit Preniqi¹, Oliver Lang¹, Stefan Schmalz¹, Reinhard Feger¹ ¹Johannes Kepler University Linz, ²Infinicon Technologies AG
10:10 – 10:30	EuMC42-6 A 140-GHz GaAs MMIC Reconfigurable Metasurface With Hot-Via Interconnects for Scalable RIS Implementation Shuping Li¹, Yi-En Kao², Yu-Hsiang Cheng², Jung-Tao Chung², Hsi-Tseng Chou², Chung-Tse Michael Wu² ¹Rutgers University, ²National Taiwan University, ³Win Semiconductors	EuMC43-6 Solving Beam-Compensated Sub-THz Volumetric Imaging via Differentiable Programming Lukas Furtmüller¹, Philipp Plöckinger¹, Reinhard Feger¹ ¹Johannes Kepler University Linz	EuRAD05-6 Interference Detection Method for Automotive Radar Gabriela Enescu¹, Filip Alexandru Rosu¹, Adriana Brigalda¹, Pavel Agrigoroaei¹, David Bethge¹ ¹NXP Semiconductors	EuRAD06-6 A Modular Simulation Architecture for C-UAS Evaluation Tim Kinnunen¹, Per Grahn¹, Johan Appelgren¹, Tommy Johansson¹, Fredrik Näsström¹ ¹Swedish Defence Research Agency (FOI)

THURSDAY 08:30 – 10:30

ROOM	Room 12
	EuRAD07 AI for Cognitive Radar, Waveform Intelligence & EW Chair: David Greig¹ Co-Chair: Carmine Clemente² ¹Leonardo UK, ²University of Strathclyde
08:30 – 08:50	EuRAD07-1 Learned Pre-Distortion of Diverse Radar Waveforms Amos Hebb¹, Alexander Yarovoy¹, Francesco Fioranelli¹ ¹Delft University of Technology
08:50 – 09:10	EuRAD07-2 Towards a Radar Foundation Model: Efficient Multi-task Deinterleaving of Radar Pulse Trains Leo Zeitler¹, Ian Groves¹, Edward Gunn¹, Adam Hosford², Jarrod Williams¹, Varun Chhabra¹, Victoria Nockles¹ ¹The Alan Turing Institute, ²Dstl
09:10 – 09:30	EuRAD07-3 A Principled Empirical Game-theoretic Framework with Deep-RL for Cognitive Jamming Against Radar Emma Hawes¹, Gregory Palmer¹, Daniel J. B. Harrold¹, Bashar Ahmad¹, Paul O'Shaughnessy¹ ¹BAE Systems
09:30 – 09:50	EuRAD07-4 Deep Reinforcement Learning for Cognitive LPI Radar in Contested Spectrum Environments Afonso Sénica¹, Paulo Marques², Mário Figueiredo³ ¹Instituto de Telecomunicações - Universidade de Lisboa (IST-UL), ²Instituto Superior de Engenharia de Lisboa, ³Instituto Superior Técnico
09:50 – 10:10	EuRAD07-5 Deep Learning for Narrowband Inter-Radar Interference Mitigation with Hardware Impairments Yudai Suzuki¹, Xiaoyan Wang¹, Masahiro UMEHIRA¹, Hao Zhou² ¹Ibaraki University, ²University of Science and Technology of China
10:10 – 10:30	EuRAD07-6 Learning Electromagnetic Scattering Representations: Physics-Driven GAN for HRRP Extrapolation Zhishuang Lin¹, Xiaoli Gao¹, Jianan Yan¹, Min Zhang¹ ¹Xidian University

THURSDAY 10:30 – 12:50

Exhibition Hall

EuRAD-PO1

EuRAD Poster Session

Chair: Kamal Samanta¹

Co-Chair: Aleksanteri Vattulainen²

¹AMWT Ltd UK, ²University of Strathclyde, Glasgow, United Kingdom

Best Poster Award
presented at the EuRAD
Closing Ceremony

EuRAD-PO1-1

Formation Flying Architecture for Multi-UAV SAR Experiments

Sofia Judith Sanchez Urresta¹, Alexis Fernando Mariño Salguero¹, Stefan V. Baumgartner¹, Gerhard Krieger¹

¹Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)

EuRAD-PO1-5

Parallel Fast Factorized Backprojection with NUFFT for SAR Imaging on Tightly Coupled CPU-GPU

Masato Gocho¹, Masayoshi Tsuchida¹

¹Mitsubishi Electric Corporation

EuRAD-PO1-9

Segmentation-based detector for mm-wave radar human detection

Dingyang Wang¹, Alexander Yarovsky¹, Francesco Fioranelli¹

¹TU Delft

EuRAD-PO1-13

Comparison of Approaches to Road Texture Sensing with mm-Wave Automotive RADARs

Neil John Lord¹, Fhatuwani Luvhengo², Reinhardt von Brandis-Martini², Tinus Stander²

¹Council for Scientific and Industrial Research (CSIR), ²University of Pretoria, South Africa

EuRAD-PO1-17

DOA Estimation in Coherent Interference Environments Using Vortex Beamforming

Shikang Li¹, Ang Liu¹, Yafeng Wang¹, Yuhao Yang¹, Pin Li¹

¹National Key Laboratory of Radar Detection and Sensing, China

EuRAD-PO1-2

Millimeter Wave Radar Based Pedestrian Activity Classification with Multi-dimensional Point Cloud Data

Takeru Matsuoka¹, Shouhei Kidera¹

¹The University of Electro-Communications

EuRAD-PO1-6

Efficient Joint TDOA and DOA Estimation in IR-UWB Radar for Multi-Person Localization

Chaïma CHABBAT¹, Abdelmajid MAALI¹, Mohamed Salah AZZAZ¹

¹Ecole Militaire Polytechnique

EuRAD-PO1-10

On Embedded Radiation Pattern Effects in MIMO Radar and Their Mitigation Using Dummy Antennas

Niklas Frewer¹, Bartosz Tegowski¹, Alexander Kölpin¹

¹Hamburg University of Technology (TUHH)

EuRAD-PO1-14

Investigation of Range Sidelobe Levels for FDA-MIMO Radar Systems via Analytical Ambiguity Functions

Durul Akdemir¹, Gökhan Muzaffer Güvensen², Ali Özgür Yılmaz², Sencer Koc²

¹AELSAN, ²Middle East Technical University

EuRAD-PO1-18

Blockchain-Based Decentralized Task Allocation in Integrated Sensing and Communication Networks

Xianzhe Xu¹, Xingwei Ye¹, Luofang Jiao¹, Qiang Cheng¹, Linghao Xia¹, Yuhao Yang¹

¹Nanjing Research Institute of Electronics Technology

EuRAD-PO1-3

Automatic Location, characterisation, and classification of vibrating maritime targets using high-order features

Laura Parra Garcia¹, Malcolm Macdonald¹, Carmine Clemente¹

¹University of Strathclyde, Glasgow, United Kingdom

EuRAD-PO1-7

Utilizing Non-Line-of-Sight Radar Features for Process Condition Characterization in Forging

Yuyao Jiang¹, Artem Alimov¹, Sebastian Härtel¹, Markus Gardill¹

¹BTU Cottbus-Senftenberg, Chair of Electronic Systems and Sensors, ²BTU Cottbus-Senftenberg, Chair of Hybrid Manufacturing

EuRAD-PO1-11

Performance Analysis of a Fractional Fourier Domain Detector for Electronic Warfare

Aline de Oliveira¹, Canisio Barth¹, Fabian Backx¹

¹Brazilian Navy Research Institute, ²Aeronautics Institute of Technology

EuRAD-PO1-15

Adaptive Beamforming with Rotating 2D Antenna

Thomas Schuster¹

¹Hensoldt Sensors GmbH

EuRAD-PO1-19

Heartbeat Detection using CW Radar on the Edge

Jakob Strutz¹, Alexander Kölpin², Kay Bierzynski¹

¹Infineon Technologies AG, ²Technische Universität Hamburg (TUHH)

EuRAD-PO1-4

Sparse Estimation for the Detection of Multiple Scatterers in SAR Tomography

Pia Addabbo¹, Diego Reale², Antonio Paucillo³, Gianfranco Fornaro², Danilo Orlando¹

¹Università Telematica Giustino Fortunato, ²National Research Council-Institute for the Electromagnetic Sensing of the Environment (CNR-IREA), Italy, ³Department of Information Engineering, University of Pisa, Italy

EuRAD-PO1-8

Backprojecting Gradients: Differentiable SAR Imaging for UAV Autofocus

Michael Fritzenwallner¹, Ahmed Hashem¹, Andreas Haderer¹, Reinhard Feger¹

¹Christian Doppler Laboratory for Distributed Microwave and Terahertz Systems for Sensors and Data Links, ²Joby Austria GmbH

EuRAD-PO1-12

Correlator bank optimization for sparse beamspace recovery using MIMO radars with analog correlators

Iosif Vardakis¹, Ashish Pandharipande², Nitin Jonathan Myers¹

¹TU Delft, ²NXP, ³TU Delft

EuRAD-PO1-16

Array Design on Curved Surfaces for Near-Field MIMO Imaging Radar

Gabriel Schnoering¹, Halil Durmuş²

¹FTES AG, ²Fujikura Technology Europe Turkey

THURSDAY 11:10 – 12:50

ROOM

Room 1

EuMC44

Antennas for Next-Generation Millimeter-Wave Communication and Sensing

Chair: Kamil Yavuz Kapsuz¹

Co-Chair: Jin Zhang²

¹imec, ²Queen Mary University of London

11:10
–
11:30

EuMC44-1

On-Board Spherical Dielectric Resonator for Concurrent Antenna and High-Q Resonator Operation

Ahmed Nasheed¹, Jan Hesselbarth¹

¹Universität Stuttgart

11:30
–
11:50

EuMC44-2

A Stacked Cavity-Backed Slot Antenna with Selective Frequency-Shifting Vias for Dual-band Operation in Metal Enclosure

Yun-sung Kim¹, Hyeon-Jeong Cho¹, Yeong-Ju Seo¹, Haechan Kang¹, Ji-Young Kim¹, Jong-Won Yu¹

¹Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea

11:50
–
12:10

EuMC44-3

Gain, Efficiency and Bandwidth Enhancement of mmWave Planar Antenna Array using Corrugated Aperture and Wave Guided CPW Transmission Line

Mohammed Aborahama¹, Ahmed Metwally Hegazy¹, Omar M. Ramahi¹, Raafat R. Mansour¹

¹University of Waterloo

12:10
–
12:30

EuMC44-4

DGS-enhanced 5G NR FR3 Antenna Development and Validation for Joint Communication and Sensing

Merve Tascioglu Yalcinkaya¹, Padmanava Sen¹, Yash Richhariya¹, Gerhard Fettweis¹

¹Barkhausen-Institut gGmbH

12:30
–
12:50

EuMC44-5

A Compact Dual-Band Patch Antenna with Radiation Performance Enhancement for 6G Upper Mid-band and mmWave Sensing Applications

Mid Abu Sufian¹, Downon Lee¹, Keunhoe Lee¹, Girdhari Chaudhary¹, Yongchae Jeong¹

¹Jeonbuk National University

Room 7

EuMC45

Advances in Oscillators and Phase-Locked Loops

Chair: Matthias Rudolph¹

Co-Chair: Florinel Balteanu²

¹Brandenburg University of Technology Cottbus-Senftenberg (BTU), ²Skyworks Solutions Inc.

EuMC45-1

A 0.5-V 207-GHz Push-Push Oscillator With Highly-Scaled Mesa Achieving 190.8 dBc/Hz FoM in 70-nm GaAs pHEMT Technology

Chih-Ju Wu¹, Xu Jiang¹, Jung-Tao Chung², Austin Ying-Kuang Chen², Chung-Tse Michael Wu¹

¹National Taiwan University, ²Win Semiconductors, ³University of California, Santa Cruz

EuMC45-2

PLL-Based Control of Dielectric Resonator Oscillator with High Bandwidth and Dynamic

Robin Kaesbach¹, Marcel van Delden¹

¹Ruhr University Bochum

EuMC45-3

A Novel Low-complexity gm-boosted Oscillator Architecture for Millimeter-Wave Applications

Mohamad El Chaar¹, Gustavo Misawa Hama², Florence Podevin¹, Antonio Augusto Lisboa de Souza³, Ariana Lacorte Caniato Serrano⁴, Gustavo Pamplona Rehder⁴, Sylvain Bourdel⁵

¹CEA-LETI, ²TIMA Laboratory, Grenoble INP, CNRS, University of Grenoble Alpes, ³Federal University of Paraíba, ⁴LME Laboratory, Escola Politécnica da Universidade de São Paulo

EuMC45-4

Reconfigurable Lock/Unlock Oscillator Dynamics for Short-Range Microwave Sensing

Hanaa El Moudden¹, Franco Ramirez¹, Almudena Suarez Rodriguez¹

¹Universidad de Cantabria

EuMC45-5

Multi-Loop YTO Controlling for Wideband and Agile Frequency Synthesizer

Lukas Polzin¹, Nils Pohl¹, Thomas Musch¹, Marcel van Delden¹

¹Ruhr University Bochum

Room 13

EuMC46

Metasurfaces and Metamaterials

Chair: Enrique Márquez-Segura¹

Co-Chair: Alejandro García-Tejero²

¹Universidad de Málaga,

²HUBER+SUHNER AG

EuMC46-1

A High-Gain Metasurface Antenna for Linearly Polarized mmWave Wireless Links

Marcello Zucchi¹, Andrea Scarabosio¹, Giuseppe Musacchio Adorisio¹, Rossella Gaffoglio¹, Giorgio Giordanengo¹, Fabio Morgia², Francesco Verni², Matteo Alessandro Francavilla², Giuseppe Vecchi³

¹Fondazione Links, ²Huawei Milan Research Center, ³Politecnico di Torino

EuMC46-2

A Semi-Transparent Flexible Dual-band Metantenna for Wearable Applications

Yingrui Lu¹, Zhenzhen Jiang¹, Zijian Dong¹, Mark Leach¹

¹Xi'an Jiaotong Liverpool University

EuMC46-3

Multiband CPW-fed Slot Antennas Loaded with CRLH Unit Cells

Nour Elwagdy¹, Tamer Abueffadl², Amr Safwat²

¹Faculty of Engineering, Ain Shams University, ²Nile University, School of Engineering and Applied Sciences

EuMC46-4

Broadband Reconfigurable Reflectarray Antenna Based on Metasurface

Jiaqing Li¹, Hao Wang¹, Guohong Du¹, Ximing Li¹, Fengling Peng¹

¹Chengdu University of Information Technology

EuMC46-5

Metasurface for Simultaneous Transmit-Receive Operation: Phase Quantisation and Optimisation

Yihan Ma¹, Yibing Guo¹, Qi Luo¹, Leiyan Qin², Wei Hu², Lehu Wen¹, Yonggang Zhou⁴

¹University of Hertfordshire, ²Xidian University, China, ³Brunel University London, ⁴Nanjing University of Aeronautics and Astronautics

Room 17

EuMC47

Components for Microwave and THz Sensing

Chair: Simon Hemour¹

Co-Chair: Jasmin Grosinger²

¹IMS Bordeaux (U.Bordeaux), ²Universität Siegen

EuMC47-1

Thermal Dynamics in Microwave Interferometric Nano and Micro-particle Suspension Sensing

SEVDA SEYYEDMASOUMIAN¹, Maede Chavoshi¹, Tomislav Markovic², Bart Nauwelaers³, Dominique Schreurs¹

¹KU Leuven, ²Faculty of Electrical Engineering and Computing, University of Zagreb

EuMC47-2

All-dielectric Terahertz near-field probe for high-resolution non-destructive inspection of integrated circuits

Ashish Kumar¹, Muhsin Ali², Daniel C. Gallego², Guillermo Carpintero¹

¹Universidad Carlos III de Madrid, Leganes, Madrid, Spain, ²Leapwave Technologies SL

EuMC47-3

Planar Microwave Sensor with Tunable Sensitivity and Linearity

Nazmia Kurniawati¹, Paris Véléz², Pau Casacuberta¹, Xavier Canalias¹, Ferran Martín¹

¹Universitat Autònoma de Barcelona

EuMC47-4

Design and Evaluation of a Crosspolar Surface Dipole Antenna for Tracing Applications

Eduard Gramlich¹, Nicholas Karsch¹, Jonas Schorlemer¹, Birk Hattenhorst¹, Marcel van Delden¹, Ilona Rolfes¹, Thomas Musch¹

¹Ruhr University Bochum, Germany, ²pi-Labs GmbH

EuMC47-5

Characterization of a 300 GHz Monopulse Multimode Antenna for THz-Link Alignment

Mark Johannes Neff¹, Maximilian Hecke¹, Simon Haussmann¹, Keizo Inagaki², Hugh Gibson³, Ralf Henneberger⁴, Arata Ogaki⁵, Shintaro Hisatake⁶, Tetsuya Kawanishi⁷, Ingmar Kallfass⁸

¹University of Stuttgart, ²National Institute of Information and Communication Technology, ³GMD EURL, ⁴RPG Radiometer Physics GmbH, ⁵Waseda University, ⁶Gifu University, Gifu, Japan

THURSDAY 11:10 – 12:50

ROOM	Room 4	Room 8	Room 12	Room 15
	EuRAD08 Radar-Based Mapping, Localization, and Sensing for Autonomous Platforms Chair: Christian Waldschmidt¹ Co-Chair: Igal Bilik² ¹Ulm University, ²Ben-Gurion University of the Negev	EuRAD09 Direction of Arrival Estimation Chair: Laura Anitori¹ Co-Chair: Reinhard Feger² ¹CNIT RASS, ²Johannes Kepler University Linz	EuRAD10 AI for Detection, Tracking and Multi-Modal Perception Chair: Stephen Harman¹ Co-Chair: Leo Zeitler² ¹Thales UK, ²The Alan Turing Institute	EuRAD11 Special Session EMSIG – The UK Radar Society and UK Radar Ecosystem Chair: Carmine Clemente¹ Co-Chair: Darren Coe² ¹University of Strathclyde, ²QinetiQ
11:10 – 11:30	EuRAD08-1 Occupancy Grid Mapping Using a Single-Channel Sub-6 GHz FMCW Radar Max Basler¹, Sven Thäle¹, Ron Riekenbrauck¹, Daniel Laqua¹, Timo Grebner¹, Christian Waldschmidt¹ ¹Institute of Microwave Engineering, Ulm University	EuRAD09-1 Resilient Radar Target Resolvability in Narrow Angular Sectors via Dual-Regularized IAA Ryuhei Takahashi¹, Tsubasa Terada¹, Hassan Mansour², Petros Boufounos² ¹Mitsubishi Electric Corporation, ²Mitsubishi Electric Research Laboratories	EuRAD10-1 From Classification to Tracking: A Unified Learning Framework for Imaging Radar Point Clouds Zhifei Wang¹, Xiao WANG¹, Zenghui Li¹, Huiqiang Zhou¹, Hongquan Liu¹ ¹Calterah Semiconductor Technology Co., Ltd.	EuRAD11-1 The EMSIG and its activities in the UK Carmine Clemente¹ ¹University of Strathclyde
11:30 – 11:50	EuRAD08-2 CohMap: Radar-Based Mapping Algorithm using Coherence Weighting and MIMO-SAR Processing Daniel Louback S. Lubanco¹, Ahmed Hashem¹, Reinhard Feger¹ ¹Johannes Kepler University Linz	EuRAD09-2 Circular Arc Array Design for Peak Sidelobe Level Minimization in Wide-FOV Radar Systems Masoud Dorvashi¹, Oliver Lang¹, Reinhard Feger¹ ¹Johannes Kepler University Linz - JKU	EuRAD10-2 Spatio-Temporal Mamba for Detection of Small Targets in Cluttered Radar Environments Harry Braam¹, Phillip van Dorp², Bas Jacobs², Ronny Guendel² ¹University of Twente, ²TNO	EuRAD11-2 Panel Discussion Philip Clark¹, Marina Gashinova², Aled Catherall³, Stephanie Ford⁴, Sam Stevenson⁵ ¹BAE Systems, ²University of Birmingham, ³PlexTek, ⁴Defence Science and Technology Laboratory, ⁵Leonardo
11:50 – 12:10	EuRAD08-3 Attitude and Rotational Ego-motion estimation for Air Taxis using Automotive MIMO Radar Vignesh Gopalan Jeyaraman¹, Gunnar Briesel¹, Patrick Wallrath¹ ¹Fraunhofer Institute for High Frequency Physics and Radar Techniques (FHR)	EuRAD09-3 Ghost Suppression and Weak Target Detection by Switching Prior on SBL-based DoA Estimation Yufeng Fu¹, Shingo Jinno¹, yoshie kobayashi¹, Sungwoo Cha¹ ¹MIRISE Technologies Corporation	EuRAD10-3 Self-supervised training of a detector with airborne maritime radar data Christian Blackman¹, Murat Uney², Yalin Zheng¹, David Greig³ ¹University of Liverpool, ²University of Edinburgh, ³Leonardo UK	
12:10 – 12:30	EuRAD08-4 Harmonic Tag Based AGV Localization for Automated Parcel Handling at 61/122 GHz Patrick Kwiatkowski¹, Irfan Fachrudin Priyanta², Dirk Höning³, Steffen Hansen⁴, Sönke Kauffmann⁴, Tobias T. Braun¹, Nils Pohl¹ ¹Ruhr University Bochum, ²TU Dortmund University, ³Fraunhofer Institute for Material Flow and Logistics IML, ⁴Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR	EuRAD09-4 An Efficient Hardware-Oriented 2D DoA Engine Based on Conditional DML and DBF Fusion Peng Zhang¹, Yang Li², Jie Zhu², Bo Wang², Dixian Zhao¹ ¹Southeast University (China), ²Purple Mountain Laboratories	EuRAD10-4 Improving Adverse Weather Detection through Radar-Centric Early Fusion with Lidar Features Christof Leitgeb¹, Thomas Puchleitner¹, Daniel Watzenig² ¹Infineon Technologies AG, ²Graz University of Technology, Austria	
12:30 – 12:50	EuRAD08-5 Investigation of Forward Looking SAR for Advanced Road Debris Detection Theresa Noegel¹, Marc Reinecke¹, Oliver Sura¹, Max Heidbrink¹, Martin Vossiek¹ ¹Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany	EuRAD09-5 Synthetic Aperture Based Ghost Image Suppression for Sparse Array Millimeter Wave Radar Seungjae Lee¹, Shouhei Kidera¹ ¹The University of Electro-Communications	EuRAD10-5 Hybrid Classification-Regression Network for Multi-Target DOA Estimation Mingjie Shi¹, Xin Zhang², Yu Su², Xuefeng Yin¹, Gang Li², Xuyang Li² ¹Tongji University, ²SINPRO Intelligent Technology(shanghai) Co., Ltd.	

THURSDAY 14:10 – 16:10

ROOM	Room 17	Room 6	Room 7	Room 13
	EuMC/EuRAD01 Special Session UKRI/EPSRC Selected Research Projects in mmWave and THz Research Chair: Djuradj Budimir¹ ¹University of Westminster	EuMC48 Channel Characterization and OTA Testing Chair: Marianna Ivashina¹ Co-Chair: Alexander Kölpin² ¹Chalmers University, ²Hamburg University of Technology	EuMC49 Front-End and Transceiver Modules, System-in-Pack- age Technologies Chair: Franco Ramirez¹ Co-Chair: Cristina Andrei² ¹Universidad de Cantabria, ²Brandenburg Technical University Cottbus-Senftenberg	EuMC50 Periodic and Quasi-Periodic Structures Chair: Maria García-Vigueras¹ Co-Chair: Guillaume Ducournau² ¹IETR, INSA Rennes, ²University of Lille
14:10 – 14:25	EuMC/EuRAD01-1 Transmission Channels Measure- ments and Communication System Design for Future MM-wave Com- munications (mm Wave TRACCS) Izzat Darwazeh¹ ¹University College London	EuMC48-1 Photonic Vector Network Ana- lyzer for Agile Channel Sounding Across the Sub-THz Spectrum Ramez Askar¹, Garrit Schwanke¹, Timo Noack², Nico Vieweg², Thomas Puppe², Sebastian Müller², Albrecht Neudecker², Robert Kohlhas², Michael Peter², Gerd Hechtischer², Taro Eichler² ¹Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute, HHI, ²Rohde & Schwarz GmbH & Co. KG, ³Optica Photonics SE	EuMC49-1 A Hybrid CMOS/GaAs D-band Multi-Channel RX System-in- Package Abdelaziz Hamani¹, José-Luis González-Jiménez², Florent Gamand², Vincent Gidel², Alexandre Siligaris², Guillaume Ducournau², Francesco Foglia Manzillo², Antonio Clemente², Renaud MOUROT¹, Eric MERCIER², Emmanuel Froger², Christophe Gaguere², Michel Ramez² ¹University of Grenoble Alpes, ²MC2-Technologies, ³University of Lille, ⁴Nokia, ⁵EPROM	EuMC50-1 Compact and Asymmetric Dipole Antenna Array Exhibiting High Mutual Coupling via Leaky-Wave Radiation Behavior Jae-Young Lee¹, Jae-Young Lee², Taehyung Kim¹, Wonbin Hong⁴ ¹Electronics and Telecommunications Research Institute (ETRI), ²University of Science and Tech- nology, Korea, ³ANSYS Korea, ⁴Pohang University of Science and Technology (POSTECH)
14:25 – 14:40	EuMC/EuRAD01-2 All Analogue Full-duplex Dual- receiver Radio for Wideband Mm-wave Communications Dariush Mirshekar-Syahkal¹, Djuradj Budimir² ¹University of Essex, ²University of Westminster	EuMC48-2 Characteristics of the Sub-THz Radio Channel at 158 and 300 GHz in a Street Canyon Scenario Alper Schultze¹, Michael Peter¹, Wilhelm Keusgen², Taro Eichler² ¹Fraunhofer Heinrich Hertz Institute, ²Technische Universität Berlin, ³Rohde & Schwarz	EuMC49-2 Enabling Circuits for 6G FR3 RF Front-End Modules Florinel Balteanu¹ ¹Skyworks Solutions Inc.	EuMC50-2 Reflective Surfaces in D Band on Quartz and PET substrates Dylan Leborgne¹, Amani Cherif¹, Mohamed Hindi¹, Frederic Dutrin¹, Guillaume Ducournau², Olivier Lafond², Xavier Castel², Ronan Sauleau¹ ¹Institut d'Electronique et des Technologies du numérique- Université de Rennes, ²IEMN - CNRS 8520
14:40 – 14:55	EuMC/EuRAD01-3 On-wafer microwave metrology for future industrial applications (On-Micro) Zhirun Hu¹ ¹University of Manchester	EuMC48-3 Blind Maximum Ratio Combining via Second-Order Statistics under Unequal Noise Powers Constantin Wimmer¹, Marco Krondorf¹ ¹HTWK Leipzig	EuMC49-3 A Q-band Manchester-Encoded 1-Bit BPDSM Transmitter with SB-APDNP Passive Tripler Yuki Fujiya¹, Ryunosuke Saito¹, Ryosei Miyagawa¹, Tomoyuki Furuichi¹, Noriharu Suematsu¹ ¹Research Institute of Electrical Communication, Tohoku University	EuMC50-3 Design Method of Topological Waveguides Using Two 2-D Hexagonal Distributed Transmis- sion Line Models Hayato Osuna¹, Tsutomu Nagayama¹, Seiji Fukushima¹, Toshio Watanabe¹ ¹Kagoshima University
14:55 – 15:10	EuMC/EuRAD01-4 Beyond-Diagonal Reconfigurable Intelligent Surfaces Bruno Clerckx¹ ¹Imperial College London	EuMC48-4 A Novel Technique for Antenna Radiation Pattern Measurement With Incoherent Signal Sources Sarah Klass¹, Bartosz Tegowski¹, Alexander Kölpin¹ ¹Hamburg University of Technology (TUHH), Institute of High-Frequency Technology	EuMC49-4 Packaged High Power broad- band Front-End for Q-band 36- 42GHz 5G TN & NTN solutions Mohammed Ayad¹ ¹United Monolithic Semiconductors SAS	EuMC50-4 Metallo-Dielectric Hard-Soft EBG Structure for E-band Auto- motive Radar Applications Felix Liu¹, Alejandro Garcia-Tejero², Oskar Zetter- ström¹, Oscar Quevedo-Teruel², Francesco Merli² ¹HUBER+SUHNER AG, KTH - Royal Institute of Technology, ²HUBER+SUHNER AG, ³KTH - Royal Institute of Technology
15:10 – 15:25	EuMC/EuRAD01-5 Microplastic sensors based on terahertz metasurface SaeJune Park¹ ¹Queen Mary University of London	EuMC48-5 Characterization of a Fully Integrated 100GHz Electronic Beamsteering Gap-Waveguide Phased-Array Front End in Reverberation Chamber Pavlo Krasov¹, Viktor Chernikov¹, Magnus Franzén¹, Stefano Vindemmio², Lawrence Moore², Anders Fransson², Marianna Ivashina¹ ¹Chalmers University of Technology, ²Bluetest AB, ³Ericsson AB	EuMC49-5 An All-Digital Frequency- Agile RF-PWM Modulator for Software-Defined Transmitters Deguang Sun¹, Andreas Wentzel¹ ¹Ferdinand-Braun-Institut	EuMC50-5 Design of Plasma-Enabled Reconfigurable Electromagnetic Absorbers Krushna Kanth Varikuntla¹, Babar Abbasi Muham- mad Ali², Okan Yurduseven² ¹Queen's University Belfast, ²Queen's University Belfast
15:25 – 15:40	EuMC/EuRAD01-6 Active intelligent Reconfigurable surfaces for 6G wireless COM- munications (AR-COM) Qammer H. Abbasi¹ ¹University of Glasgow	EuMC48-6 Antenna Array Embedded Ele- ment Efficiency Measurements Using Reverberation Chamber Yared Leul Hagos¹, Thijs Brouwers², Tudor Popa², Bart Smolders², Diego Caratelli¹, Sander Bronckers¹ ¹Eindhoven University of Technology (TU/e), ²The Antenna Company	EuMC49-6 Novel GaN-based Full-Duplex Front-End Topology Valerie Fetzer¹, Andreas Wentzel¹, Deguang Sun¹, Megha Krishnaji Rao¹, Thomas Hoffmann¹, Patrick Scheele¹, Matthias Rudolph¹ ¹Ferdinand Braun Institut (FBH), ²Brandenburg University of Technology Cottbus-Senftenberg (BTU), Ferdinand-Braun-Institut gGmbH, Leibniz- Institut für Hochstfrequententechnik (FBH)	EuMC50-6 Tunable Waveguide Bragg Filter using Liquid Crystal Filled Unit Cells Tobias Bader¹, Simon Pietschmann², Gerald Gold² ¹Friedrich Alexander University of Erlangen- Nürnberg, ²Friedrich-Alexander-Universität Erlangen-Nürnberg
15:40 – 15:55	EuMC/EuRAD01-7 EPSRC Microwave, Millimetre- Wave and THz Project Portfolio and Future Strategic Directions and Ambitions Stephanie Russin¹ ¹UKRI Engineering and Physical Sciences Research Council			

THURSDAY 14:10 – 16:10

ROOM	Room 1	Room 4	Room 12
	EuRAD12 Joint Sensing and Communi-cations Chair: Matthew Ritchie¹ Co-Chair: Faruk Uysal² ¹University College London, ²TNO	EuRAD13 Medical and Health Applica-tions Chair: Francesco Fioranelli¹ Co-Chair: Aled Catherall² ¹TU Delft, ²PlexTek	EuRAD14 Radar Beamforming and Frontend Technologies Chair: Ronny Harmanny¹ Co-Chair: Daniel Andre² ¹Thales Nederland B.V., ²Cranfield University UK
14:10 – 14:30	EuRAD12-1 Performance Improvement of OFDM-Based Forward Scatter Radar using Golay Codes: Experi-mental Validation Abdollah Ajorloo¹, Andrea Quirini¹, Fabiola Colone¹, Pierfrancesco Lombardo¹ ¹Sapienza University of Rome	EuRAD13-1 Reduction of Radar Channel Spa-tial Variability in Medical Radar Applications by Means of Large Antenna Arrays Bartosz Tegowski¹, Alexander Kölpin¹ ¹Hamburg University of Technology (TUHH)	EuRAD14-1 Fully Digital Beamforming Receiver with Improved Spur Suppression Using Fractional Frequency Dispersion Atsuro SAMBAYASHI¹, Osamu Wada¹, Nobuhiko ANDO¹ ¹MitsubishiElectric Corporation
14:30 – 14:50	EuRAD12-2 Multibeam Sensing with Dedi-cated Slot in Cellular-based ISAC Systems Taewon Jeong¹, Xueyun Long¹, Lucas Giroto², Umut Utku Erdem¹, Thomas Zwick¹ ¹Karlsruhe Institut of Technology (KIT)/ Institute of Radio Frequency Engineering and Electronics (IHE), ²Nokia Bell Labs Stuttgart	EuRAD13-2 A DSIL Low-IF Radar System With a Dual-Triplet Non-Uniform Circular SRR for On-Wrist Vital Sign Sensing Chinnmaya Tripathy¹, Hsuan-Yung Chen¹, Hao-Cheng Wang¹, Kuan-Yuan Lee¹, Mohammed Nurain Mustaque¹, Tzzy-Sheng Horng¹, Hao-To Wang² ¹National Sun Yat-Sen University, ²National Taiwan Normal University	EuRAD14-2 Terabit-per-Second Real-Time Chirp Synthesizer: An Ultra-Wide-band Multi-Channel DDS Approach for RFSoc Radar Platforms Christian Gesell¹, Lukas Paulus¹, Simone Steinhäuser¹, Julian Aguilar¹, Christian Waldschmidt¹ ¹University of Ulm
14:50 – 15:10	EuRAD12-3 Analytical PSLR and ISLR Expres-sions for OTFS Radar Performance Evaluation Sirine Hamrouni¹, Jean-Yves Baudais², Stéphane Méric¹, Adnane Cherif¹ ¹IETR INSA of Rennes, ²IETR INSA RENNES, France, ³ATISSE Laboratory, Science Faculty of Tunis, University of Tunis El Manar	EuRAD13-3 Remote Respiratory Detection Us-ing a Single UAV-Mounted FMCW Radar with Digital Beamforming Khaldoon Ishmael¹, Ethan Chee², Sean Maika A Harding³, Sean Tadekawa², Victor M. Lubecke³, Olga Boric-Lubecke² ¹Naval Information Warfare Center Pacific, ²NIWC, ³UHM, ⁴University of Hawaii at Manoa, College of Engineering	EuRAD14-3 A 120/240 GHz Dualband FMCW Radar Frontend Maurice Schepers¹, Christian Bredendiek¹, Peter Knott² ¹Fraunhofer FHR, Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR, Wachtberg, Germany, ²Chair of Radar Systems En-gineering, Institute of High Frequency Technology, RWTH Aachen University, Aachen, Germany
15:10 – 15:30	EuRAD12-4 An ISAC field demonstrator System Roland Oechslin¹, Timon Schmid², Andreas Zutter² ¹armasuisse, ²Precisionwave AG	EuRAD13-4 A TDD-Enabled FMCW Radar System with Self-Interference Mitigation for Vital Sign Detection Sarina Sabouri¹, Anantha Chandrakasan¹, Negar Reiskarimian¹ ¹Massachusetts Institute of Technology	EuRAD14-4 A Fully-Digital NCO-Based Direct Digital Synthesis Architecture for Wideband Transmit Beamforming Fabia Arshad¹, Andrea Quirini¹, Pierfrancesco Lombardo¹ ¹Sapienza University of Rome, Italy
15:30 – 15:50	EuRAD12-5 A System-Level Simulation for Multi-TRP 5G NR ISAC: Resolving Spatial and Velocity Ambiguities Xinze Lyu¹, Philipp Geuer¹, Joerg Huschke¹, Christo-pher Möllén¹, Johannes Nygren¹, Aleksandar Ichkov¹, Rui He¹, Narendar Madhavan¹ ¹Ericsson Research	EuRAD13-5 A Pulse Conversion-based Heart Rate Estimation Method for Concurrent Multi-Beam Passive Radar Ziyin Xu¹, Heng Zhao¹, Junyu Wang¹, Shuaiming Huang¹, Hong Hong¹ ¹Nanjing University of Science and Technology	EuRAD14-5 Implementation of Phased Array Noise Radar and FMCW Radar Sys-tems on AMD’s Radio Frequency System-on-a-Chip based sensor Colin Horne¹, Matthew Ritchie¹, Andrew Stove², Nial Peters¹ ¹University College London, ²Stove Specialties, ³Plextek Services UK
15:50 – 16:10			EuRAD14-6 Large-Aperture mmWave MIMO Cascaded Radar Seifallah Jurdak¹, Mustafa ALANI², James Birchall³ ¹Bristol Research & Innovation Laboratory, Toshiba Europe Ltd., Bristol, UK, ²Bristol Research & Innova-tion Laboratory, Toshiba Europe Ltd, Bristol, UK, ³Electro-Technical, Bristol, UK

THURSDAY 16:50 – 18:30

ROOM

Room 8 - 11

EuMW03

EuMW/EuMC Closing

16:50 Session Welcome

17:00 Nick Ridler¹
¹EuMC Chair

17:00 The Critical Role of RF/Microwave Engineering in Quantum Technology

17:30

Tobias Lindstrom¹
¹National Physical Laboratory (NPL)

Quantum technologies have rapidly progressed from academic research to emerging commercial applications. Many of these technologies rely on RF and microwave signals for device control and readout. While early prototypes could leverage equipment originally developed for the telecom market, the accelerating scale of, in particular, quantum computing is now increasingly demanding purpose-built, high-performance solutions capable of managing thousands of microwave channels.

Looking ahead, in a few years, there will be error corrected quantum computers requiring extremely low latency feedback and high instruction bandwidth, placing unprecedented demands on instrumentation, interconnects, and packaging. These challenges will push RF and microwave engineering to new performance limits.

This presentation will briefly explain how RF and microwave engineering underpins quantum technologies, outline the current state of the field, and discuss the expected demands over the next 5-10 years.

17:30 Development of RF and Microwave Solutions for Quantum Control and Measurement

18:00

Alisa Danilenko¹
¹Keysight Technologies Inc., USA

Quantum computing continues to attract intense interest across both research and industry, but for these systems to become practically useful, quantum processors must scale far beyond their current size. As qubit counts grow, the methods used for their control and read out must scale accordingly. In this presentation, the need for RF and microwave control and measurement signals in quantum computing will be described, with an emphasis on superconducting qubit architectures. Current approaches to implementing this control will then be discussed, examining how control systems are evolving, and must continue to evolve, to meet the demands of increasingly complex quantum processor units.

18:00 EuMC Best Paper Awards

18:15 Jiafeng Zhou¹, Roberto Gómez-García²
¹EuMC TPC Chair, ²EuMC TPC Co-chair

18:15 Closing Remarks

18:25 Stephen Harman¹
¹EuMW 2026 General Chair

18:25 Invitation to EuMW 2027

18:30 Paolo Colantonio¹
¹EuMW 2027 General Chair

THURSDAY 16:50 – 18:30

ROOM

Room 1

EuRAD15

Distributed Radar Synchronisation and Sensing

Chair: Elisa Giusti¹

Co-Chair: Michail Antoniou²

¹CNIT, ²University of Birmingham

Room 4

EuRAD16

Industrial and Civilian Applications

Chair: André Bourdoux¹

Co-Chair: Nils Pohl²

¹IMEC, ²Ruhr University Bochum

Room 12

EuRAD17

MIMO Radars: Array Design, Target Detection, DOA Estimation

Chair: Fabiola Colone¹

Co-Chair: Matthew Ritchie²

¹Sapienza University of Rome, ²University College London

Room 13

EuRAD18

AI for Short Range Radar Applications

Chair: Julien Le Kercnec¹

Co-Chair: Christos Ilioudis²

¹University of Glasgow, ²Cranfield University

16:50
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17:10

EuRAD15-1

Impact of Distributed MIMO Radar Placement and Configuration on 3D Human Reconstruction

Kuitong Lou¹, Dingyang Wang¹, Alexander Yarovoy¹, Francesco Fioranelli¹

¹Delft University of Technology

EuRAD16-1

Child Presence Detection in Vehicles: A Study on the Effectiveness of UWB Radar Antenna Concepts with Infant Test Dummies

Christoph Hermann¹, Walther Pachler¹, Filippo Casamassima¹, Erich Leitgeb¹, Harald Witschnig¹

¹Infineon Technologies Austria AG, Graz, Austria, ²Graz University of Technology, Austria

EuRAD17-1

Preliminary Experimental Results of a MIMO Forward Scatter Radar using Frequency Division

Abdollah Ajorloo¹, Stefano Amato Ciciretti¹, Matteo Zorzi¹, Carlo Bongianni², Fabiola Colone¹

¹Sapienza University of Rome, ²School of Advanced Defence Studies, Rome, Italy

EuRAD18-1

A Self-Supervised Continual Foundation Model for Configuration-Agnostic Radar Gesture Recognition

Tobias Sukianto¹, Matthias Wagner², Wei Liu³, Sarah Seifi¹, Cecilia Carbonelli², Mario Huemer²

¹Infineon Technologies AG / Johannes Kepler University Linz, ²Johannes Kepler University Linz, ³Infineon Technologies AG

17:10
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17:30

EuRAD15-2

How Submillimetre Mounting Errors Degrade Beamforming in Coherent Radar Networks

Martin Grünbacher¹, Mayeul Jeannin², Matthias Wagner³, Mario Huemer³

¹Infineon Technologies, Austria / Johannes Kepler University Linz, ²Infineon Technologies AG, Johannes Kepler University Linz

EuRAD16-2

"ICDUWB-26" Dataset for Infant In-Car Detection Using Ultra-Wideband Radar

Lukas Klantschnig¹, Filippo Casamassima¹, Christoph Hermann¹, Harald Witschnig¹, Franz Pernkopf²

¹Infineon Technologies Austria AG, ²Signal Processing and Speech Communication Laboratory, Graz University of Technology, Austria

EuRAD17-2

Detector-less Coherent Integration-based Doppler Division MIMO Decoder

Filip Alexandru Rosu¹, Adriana Brigalda¹

¹NXP Semiconductors

EuRAD18-2

Smart Infrastructure Monitoring based on Ground Penetrating Radar with Explainable and Green AI

Ingrid Ullmann¹, Vasileios Belagiannis²

¹Institute of Microwaves and Photonics, Friedrich-Alexander-Universität Erlangen-Nürnberg, ²Chair of Multimedia Communications and Signal Processing, Friedrich-Alexander-Universität Erlangen-Nürnberg

17:30
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17:50

EuRAD15-3

Comparison of a Signal-Processing-Synchronized Radar Network and a Repeater-Based Radar Network

David Werbunat¹, Julian Aguilar¹, Christina Bonfert¹, Christian Waldschmidt¹

¹Ulm University

EuRAD16-3

Measurement Uncertainty in Vital Sign Detection with Frequency-Comb Continuous-Wave Radar on Unmanned Aerial Vehicles

Dominik Martin Spale¹, Gunnar Gidion¹, Eric Maier², Katrin Schmitt², Stefan Johann Rupitsch¹

¹University of Freiburg, ²Fraunhofer Institute for Physical Measurement Techniques (IPM)

EuRAD17-3

Electromagnetically Informed DoA Resolution Analysis of Bumper-Integrated 77 GHz Automotive MIMO Radar

Adrian Lamoral-Coines¹, Yanki Aslan¹, Alexander Yarovoy¹, Rabia Syeda¹, Nikita Petrov¹

¹TU Delft, MS3, ²NXP

EuRAD18-3

Parametric Modeling of Cardiac Radar Signatures via Symbolic Regression

Kristina Hess¹, Bartosz Tegowski¹, Frederik Vollmer¹, Alexander Kölpin¹

¹Hamburg University of Technology (TUHH), Hamburg, Germany

17:50
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18:10

EuRAD15-4

Target Detection Performance of a Synchronized Distributed Bistatic Radar System at V-band

Takumi Harada¹, Lijia Liu¹, Atsushi Kanno¹

¹Nagoya Institute of Technology

EuRAD16-4

Detecting Defects Inside Non-unity Refractive Index Material Based on THz SAR Imaging

Nancy Mary Rozario¹, Yevhen Ivanenko¹, Mats I. Pettersson¹, Vanja Lindberg¹, Viet Thuy Vu¹

¹Blekinge Institute of Technology

EuRAD17-4

Compact Near-Field Calibration of Sparse MIMO Array Radar via Two-Range Interferometric Processing

Seo-Ryeong Choi¹, Hyun-Hwan Choi¹, Yong Tae¹, Sungho Lee¹, Sangwook Nam¹, Byung-Sung Kim¹

¹Sungkyunkwan University, ²Korea Electronics Technology Institute, Seoul National University

EuRAD18-4

Resolving Spatial Ambiguity in FMCW Radar for In-Air Writing Using Class-Conditioned Diffusion

Salah Abouzaid¹, Nils Pohl²

¹Ruhr University Bochum, ²Ruhr University Bochum / Fraunhofer FHR

18:10
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18:30

EuRAD15-5

Frequency and Phase Synchronization Method for Distributed Wireless Sensor Network based on Dynamic Diffusion Kalman Filter

Yonglin Yu¹, Jun Wang¹, Xueyin Geng¹, Bin Yang¹

¹Beihang University

EuRAD16-5

On-Axis Power Density of Superquadric Reflectors in the Fresnel Region for Harmonic Radar Tracking Applications

Dominique Henry¹, Julia Dillard¹, Mathieu Lihoreau², Hervé Aubert¹

¹LAAS-CNRS, ²CRCA-CBI, CNRS

EuRAD17-5

Design of Sparse Modular MIMO Radar Arrays under Coherent, Quasi-Coherent, and Incoherent Operation

Christian Kurtscheid¹, Aitor Correas-Serrano¹, Jan Schröder¹, Maria A. Gonzalez Huici¹

¹Fraunhofer FHR

EuRAD18-5

Temporal Fusion Strategies for Human and Vehicle Classification using miniature mmWave Radar

Christos Ilioudis¹, Alessio Balleri¹, Damien Clarke², Aled Catherall¹

¹Cranfield University, ²Plextek Ltd

FRIDAY 08:30 – 10:30

ROOM	Room 1	Room 4	Room 6	Room 12
	EuRAD19 Defence and Multistatic Radar Imaging Chair: Stefan Scholl¹ Co-Chair: Marco Martorella² ¹Fraunhofer FHR (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR), ²Univ. of Pisa	EuRAD20 Applied Signal Processing and Systems Chair: Kevin Chetty¹ Co-Chair: Andrea Quirini² ¹University College London, ²Sapienza University of Rome	EuRAD21 Applications of High-Resolution SAR Systems Chair: Pia Addabbo¹ Co-Chair: Ilaria Nasso² ¹Università Telematica Giustino Fortunato, ²Sapienza University of Rome	EuRAD23 Cognitive Techniques, Sensor Tasking and Machine Learning Chair: Mayazzurra Ruggiano¹ Co-Chair: Fatemeh Norouzan² ¹Thales Nederland B.V., ²University of Birmingham
08:30 – 08:50	EuRAD19-1 Blind Radar Pulse Transient Restoration via BRSR-OpGAN Ana Claudia Soares Simoes¹, Mariane Rembold Petraglia² ¹Brazilian Navy Research Institute, ²Federal University of Rio de Janeiro	EuRAD20-1 Coherent Band Combination for a Multi-Band Radar from 24 to 182 GHz using Compressed Sensing Nico Riese¹, Christina Bonfert¹, Alexander Grathwohl¹, David Werbunat¹, Christian Waldschmidt¹ ¹Ulm University	EuRAD21-1 Range Resolution of Narrowband Near-field SAR Marcin Wachowiak¹, André Bourdoux², Sofie Pollin¹ ¹imec, KU Leuven, ²imec	EuRAD23-1 Enhancing Automotive Radar Point Clouds through Cognitive Modulation Adaptation Yun Kuan Su¹, Benedikt Lösch¹, Nicolai Kern¹, Alexander Yarovsky¹, Francesco Fioranelli² ¹Robert Bosch GmbH, ²Delft University of Technology
08:50 – 09:10	EuRAD19-2 Low-Complexity Radar Emitter Classification for Sub-Nyquist Sampling Receivers Stefan Scholl¹ ¹Fraunhofer FHR (Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR)	EuRAD20-2 High-Resolution Motion Tracking in Automotive Crash Tests Using mm-Wave Harmonic Radar Steffen Hansen¹, Gunnar Briese¹, Jonas Siegfried Jehle², Armin Gabler², Dominic Funke², Christian Krebs², Jan Wessel¹, Nils Pohl² ¹Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR, ²BMW Group, ³Ruhr-Universität Bochum	EuRAD21-2 Realistic Ray-Tracing-Based Simulation of Wave Propagation Through Dielectrics for Subsurface Radar Imaging Applications Peter Mergenthaler¹, Ingrid Ullmann¹, Christian Schüßler¹, Johanna Bräunig², Konstantin Root², Georg Schnattinger³, Marcel Hoffmann², Martin Vossiek¹ ¹Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg, ²fiveD GmbH, ³Rohde & Schwarz GmbH & Co. KG	EuRAD23-2 Subarray-Based Scheduling and Resource Allocation for Multi-Function Radar via Reinforcement Learning Mohammadhossein Alishahi¹, Raviraj S. Adve¹, Zhen Ding¹, Peter W. Moo² ¹University of Toronto, ²Radar Sensing and Exploitation Section, Defence Research and Development Canada (DRDC), Ottawa, Canada
09:10 – 09:30	EuRAD19-3 Blind Receiver Scheduling for Electronic Support Using Machine Learning Vaibhav Sekhar¹, Gottfried Lechner², Khoa Nguyen¹, Simon Faulkner¹ ¹Defence Science and Technology Group, ²Adelaide University	EuRAD20-3 Millimeter Wave Radar Image Correlation Based Pedestrian Detection in Mobile Radar Platform Shunsuke Tanaka¹, Shouhei Kidera¹ ¹The University of Electro-Communications	EuRAD21-3 A 77GHz Compact Fully Polarimetric SAR Imaging System for Non-Destructive Test Qiusui Xiang¹, Kamran Entesari¹, zibo gong¹, Mohamad Mahdi Rajaei Rizi¹ ¹Texas A&M University	EuRAD23-3 Temporal Graph Neural Network for ISAC Target Detection and Tracking Saeedeh Maboud Sanaei¹, Marcus Großmann², Markus Landmann¹, Thomas Dallmann¹ ¹Ilmenau University of Technology, ²Fraunhofer IIS
09:30 – 09:50	EuRAD19-4 Parameter-Level Spin Estimation of Space Targets Using Multi-Perspective InISAR Bangjie Zhang¹, Marco Martorella¹, Marina Gashinova¹ ¹University of Birmingham	EuRAD20-4 Joint Memory and Matrix Optimization for JDL STAP with Non-Homogeneous Detection on Embedded MPSoC Yu-Chieh Chu¹, Jen-Ming Wu² ¹National Tsing Hua University, ²National Tsing Hua University	EuRAD21-4 Implementation of a Wideband L-band FMCW SAR for High-Resolution UAV-Borne Imaging Chanhee Lee¹, Yongsun Yoo², Junhyun Kim¹, Yeong-Ju Seo¹, Yun-sung Kim¹, Jong-Won Yu¹ ¹Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea, ²Korea Aerospace University	EuRAD23-4 Open-Set Radar Jamming Pattern Recognition via Ensemble Multiple Time-Frequency Features Binbin Chen¹, Guodong Jin¹, Yu Wang¹, Daiyin Zhu¹ ¹Nanjing University of Aeronautics and Astronautics
09:50 – 10:10	EuRAD19-5 Reduced Resource Data Acquisition Method for Bistatic Space-to-Ground SAR using Sentinel-1 as a Transmitter of Opportunity for MicroSTAR Reev Dass¹, Willie Nel¹, Hebert Tema¹, Cullen Stewart-Burger¹, Walidi van der Lingen¹ ¹Council for Scientific and Industrial Research (CSIR)	EuRAD20-5 CW Doppler Radars for Displacement Detection: Phase Interaction from Multiple Moving Targets Fabrizio Lorenzo Carcione¹, Victor M. Lubecke², Olga Boric-Lubecke², Emanuele Cardillo¹ ¹University of Messina, Italy, ²University of Hawaii at Manoa, College of Engineering	EuRAD21-5 Platform Velocity Estimation from Sub-Aperture Range-Doppler Maps Using Cross-Range Consistency Optimization Ahmed Hashem¹, Michael Fritzenwallner¹, Reinhard Feger¹ ¹Johannes Kepler University Linz	EuRAD23-5 Lightweight Object Detection with Long-Term Temporal Fusion for 4D Automotive Radar bin tan¹, Yu Su¹, Wanwan Zhao¹, Xin Yang¹, Gang Li¹, Xuyang Li¹ ¹SINPRO (Shanghai) Intelligent Technology Co., Ltd.
10:10 – 10:30			EuRAD21-6 A Framework for High-Resolution Forward-Looking Imaging of High-Speed Moving Platforms Lingyun Ren¹, Di Wu¹, Yu Wang¹, Daiyin Zhu¹ ¹Nanjing University of Aeronautics and Astronautics	

FRIDAY 08:30 – 10:30

ROOM	Room 14 EuRAD24 SAR Imaging and Moving Target Refocusing Chair: Debora Pastina¹ Co-Chair: Laurent Ferro-Famil² ¹Sapienza University of Rome, ²ISAE-SUPAERO, Université de Toulouse
08:30 – 08:50	EuRAD24-1 Improving Moving Target Imaging With Multistatic Synthetic Aperture Radar Francis Watson¹, Daniel Andre² ¹University of Manchester, ²Cranfield University
08:50 – 09:10	EuRAD24-2 Non-Coherent Video Circular SAR for Moving Target Detection and Refocusing Cao Hong Phuc Nguyen¹, Xiaojing Huang¹, J. Andrew Zhang¹ ¹University of Technology Sydney
09:10 – 09:30	EuRAD24-3 Joint Estimate of Acceleration and Velocity of Moving Targets by using Along-track SAR Formations Giulia Pisani¹, Debora Pastina¹, Pierfrancesco Lombardo¹ ¹Sapienza University of Rome
09:30 – 09:50	EuRAD24-4 Forward-Looking SAR Imaging of Non-Cooperative Moving Targets Giulio Meriadri¹, Adnan Al Baba², Marc Bauduin², Maria-Sabrina Greco³, Fabrizio Lombardini⁴, Fulvio Gini⁵, André Bourdoux⁶ ¹imec and University of Pisa, ²imec, ³University of Pisa
09:50 – 10:10	EuRAD24-5 Satellite-Based Bistatic SAR/ISAR Techniques for Maritime Situational Awareness Fabrizio Santi¹, Ilaria Nasso¹ ¹Sapienza University of Rome
10:10 – 10:30	EuRAD24-6 Phase and Timing Synchronization Technique for Distributed Synthetic Aperture Radar Systems Greta Zefi¹, Ilgin Seker², Robert M. Beauchamp³, Eric Loria⁴, Carmine Clemente⁵ ¹University of Strathclyde, Glasgow, United Kingdom, ²NASA-Jet Propulsion Laboratory, California Institute of Technology, ³NASA Jet Propulsion Laboratory, ⁴NASA Jet Propulsion Laboratory, ⁵University of Strathclyde

FRIDAY 11:10 – 12:50

ROOM	Room 1	Room 4	Room 6	Room 12
	EuRAD25 Space Domain and Space Situational Awareness Chair: Pierfrancesco Lombardo ¹ Co-Chair: Faruk Uysal ² ¹ Sapienza University of Rome, ² TNO	EuRAD26 Geoscience, Weather and Environmental Remote Sensing Chair: Felix Yanovsky ¹ Co-Chair: André Bourdoux ² ¹ National University Kyiv Aviation Institute, Kyiv, Ukraine, ² IMEC	EuRAD27 Activity, Behavior and Infrastructure Monitoring Chair: Martin Vossiek ¹ Co-Chair: Bashar Ahmad ² ¹ Friedrich-Alexander University Erlangen-Nürnberg (FAU), ² BAE Systems	EuRAD28 Detection and Tracking Chair: Fabrizio Santi ¹ Co-Chair: Mohammed Jahangir ² ¹ Sapienza University of Rome, ² University of Birmingham, UK
11:10 – 11:30	EuRAD25-1 Sensitivity Analysis for Space-Based ISAR, MIMO-ISAR, and Phased-MIMO-ISAR Imaging Anum Pirkani ¹ , Alexander Fernihough ¹ , Marco Martorella ² , Marina Gashinova ¹ ¹ University of Birmingham	EuRAD26-1 Joint Estimation of Fall Velocity, Radial Wind, and Median Drop Diameter from Doppler Spectra of a Fast-Scanning Weather Radar Tworit Dash ¹ , Oleg Krasnov ¹ , Hans Driessen ¹ , Alexander Yarovoy ¹ ¹ Delft University of Technology	EuRAD27-1 Towards a Radio-Frequency Native Skeletal Model Chengyang Zhang ¹ , Chuanwei Ding ¹ , Heng Zhao ¹ , Qing Zhou ¹ , Xiaohua Zhu ¹ , Hong Hong ¹ ¹ Nanjing University of Science and Technology, China	EuRAD28-1 Detection of Wildlife-Snares using UAV-Borne SAR Tim Köhler ¹ , Alexander Grathwohl ¹ , Stephen Paine ² , David Gaynor ³ , Christian Waldschmidt ¹ ¹ Institute of Microwave Engineering, Ulm University, ² University of Cape Town, ³ University of Pretoria, South Africa
11:30 – 11:50	EuRAD25-2 Semantic Learning of Satellite Morphology using in-orbit Inverse Synthetic Aperture Radar Ian Groves ¹ , Gruffudd Jones ² , Yao Ge ² , Marco Martorella ² , Marina Gashinova ² , Victoria Nockles ¹ ¹ The Alan Turing Institute, ² University of Birmingham, UK	EuRAD26-2 Multi-Frequency K/Ka/W-Band Radar Calibration and Doppler Characterization of Rain Using Disdrometer-Radiometer Data Fusion Felix Yanovsky ¹ , Aleksander Pitertsev ¹ , Herman Russchenberg ¹ , Christine Unal ¹ ¹ National University Kyiv Aviation Institute, Kyiv, Ukraine, ² Delft University of Technology	EuRAD27-2 Fall Prediction from Micro-Doppler Signature of Human Gait: A Proof of Concept Fabrizio Lorenzo Carcione ¹ , Paolo Brasiliano ² , Elena Bergamini ² , Emanuele Cardillo ¹ ¹ University of Messina, Italy, ² University of Bergamo	EuRAD28-2 Unscented GM-PHD Filter for Tracking of Multiple Pedestrians with an FMCW Radar Mohcine Hamoumi ¹ , François Horlin ¹ , François Quitin ¹ , Jérôme Louveaux ² , Nihad Elhag ¹ ¹ ULB, ² UCLouvain
11:50 – 12:10	EuRAD25-3 Sub-THz ISAR Characterisation of Resident Space Objects During Proximity Operations Gruffudd Jones ¹ , Ian Groves ² , Yao Ge ² , Bangjie Zhang ¹ , Leah-Nani Alconcel ¹ , Marco Martorella ² , Victoria Nockles ¹ , Marina Gashinova ¹ ¹ EESE, University of Birmingham, ² The Alan Turing Institute, ³ University of Birmingham	EuRAD26-3 Multitaper Spectral Estimation Based on Burg Band Prediction Error Weighting for UHF Hydrological Radar Flow Velocity Measurement Jinxun Jiang ¹ , Qing Zhou ² , DePeng Wang ² , Chuanwei Ding ¹ , Heng Zhao ¹ , Hong Hong ¹ , Xiaohua Zhu ² ¹ Nanjing University of Science and Technology, ² School of Electronic and Optical Engineering, Nanjing University of Science and Technology, China	EuRAD27-3 A Minimum-Burden Framework for Weakly Supervised Through-Wall Radar Activity Labelling Matt Ash ¹ , James Brown ¹ ¹ Supersense Technologies Ltd	EuRAD28-3 Airborne Bistatic Radar Detection with Long Integration Times Using Quadratic Time Delay Model and Keystone Transformation Olof Forssén ¹ , Tomas McKelvey ¹ , Mats Viberg ¹ , Patrik Dammert ¹ ¹ Chalmers University of Technology, ² Saab AB and Chalmers University of Technology
12:10 – 12:30	EuRAD25-4 Joint Range and Spin Rate Estimation of Tumbling Space Targets Using OFDM Radar Haofan Dong ¹ , Ozgur B. Akan ¹ ¹ University of Cambridge	EuRAD26-4 Monitoring River Freeze-Thaw State using Polarimetric GNSS-R Ankit Regmi ¹ , Leo-Juhani Meriö ² , Pertti Ala-aho ³ , Marko E. Leinonen ¹ ¹ Center for Wireless Communications, University of Oulu, ² Finnish Environment Institute (SYKE), ³ Water, Energy and Environmental Engineering, University of Oulu	EuRAD27-4 Escalator-Aided Millimeter-Wave ISAR Imaging for Walk-Through Security Screening: Feasibility Study Isao Matsushima ¹ , Masato Gocho ¹ , Norihiro Togo ² , Tadashi Oshima ¹ ¹ Mitsubishi Electric Corp., ² Mitsubishi Electric Engineering Company Limited	EuRAD28-4 Detection of Targets with Unknown Coherence Time Tomas McKelvey ¹ , Ciaran Hoskins ¹ , Patrik Dammert ¹ ¹ Chalmers University of Technology, ² University of Strathclyde, ³ Saab AB
12:30 – 12:50	EuRAD25-5 Edge Computing Requirements for Spaceborne Sub-THz ISAR: A Real-Time Processing Analysis for SDA Yao Ge ¹ , Bangjie Zhang ¹ , Gruffudd Jones ¹ , Ian Groves ² , Victoria Nockles ¹ , Iain Styles ¹ , Marco Martorella ² , Marina Gashinova ¹ ¹ University of Birmingham, UK, ² The Alan Turing Institute, ³ Queen's University Belfast	EuRAD26-5 Experimental Validation of a 77 GHz FMCW Radar for Water Surface Velocity Measurement in a Controlled Open Channel Estelle Yvana EYENGA ABATE ¹ , Alain CRAVE ² , Stéphane Méric ¹ , María García-Vigueras ³ , Gilles PICOULT ¹ ¹ ETR, INSA Rennes, ² Univ Rennes, CNRS, Géosciences Rennes	EuRAD27-5 A Time Domain Method for Estimating Wind Turbine RPM Using a Monostatic Pulse Doppler Radar George Mathai ¹ ¹ Lund University and Ericsson AB	EuRAD28-5 Region-Based Dynamic Object Detection and Tracking in Cluttered Environments Anum Pirkani ¹ , Aleksandr Bystron ² , Marina Gashinova ² ¹ The University of Birmingham, ² University of Birmingham

FRIDAY 13:50 – 15:50

ROOM Room 7 - 9

EuRAD29 EuRAD Closing

13:50 Session Welcome

14:00 David Greig¹
¹Leonardo UK

15:45 Closing Remarks & Invitation to EuRAD 2027

15:50 David Greig¹
¹Leonardo UK

14:00 ESA Activities on Advanced SAR Signal Processing Techniques
–
14:45 and Applications for Security

Michela Corvino¹

¹European Space Agency

This keynote will present recent and ongoing ESA funded activities on advanced SAR signal processing techniques for security applications. With the increasing availability of high-resolution and agile spaceborne SAR data, advanced processing methods are opening new possibilities to extract information that goes far beyond conventional SAR imaging products. The keynote will provide an overview of key research areas including Inverse SAR (ISAR), micro-Doppler, VideoSAR, distributed SAR processing, SAR polarimetry, and data fusion with non-EO sources, together with emerging approaches for target motion estimation and feature extraction. Examples from ESA-funded projects will illustrate how these techniques can support applications such as maritime surveillance, moving target analysis, infrastructure monitoring, and broader situational awareness for safety and security, aiming to offer a concise view of current technological trends, recent achievements, and future directions in advanced SAR signal processing for operational security-related services.

14:45 Challenges Facing Modern RADAR Development

15:30 Phil Clark¹

¹BAE Systems

This keynote will discuss some of the challenges facing modern RADAR development, in terms of evolving target types, operating environments and operational constraints. Meeting these challenges through architectural improvements and novel signal processing techniques offers hope, and opportunities for aspiring RADAR designers.

15:30 Awards Ceremony – EuRAD Best Paper Awards

15:45 David Greig¹
¹Leonardo UK

Welcome from Workshop/Short Course Chair

We are delighted to welcome you to the Workshops and Short Courses Programme of the 29th European Microwave Week (EuMW2026), taking place in London, United Kingdom, from 4–9 October 2026.

The Workshops and Short Courses programme has been carefully designed to provide participants with in-depth technical insight into both established and emerging areas spanning microwave components and materials, advanced integrated circuit designs, radar and remote sensing, and next-generation 6G communications. This year's programme features 24 workshops and 8 short courses delivered by leading experts from academia and industry, covering a broad spectrum of topics, including:

- Microwave, mm-wave, and THz technologies
- 6G, AI-driven RF design, and integrated sensing
- Radar, remote sensing, and space applications
- Circuits, Devices and Semiconductor Technologies
- Antennas, Propagation and Measurement Techniques
- Photonics and Emerging Materials Technologies
- Sustainable RF Systems, Packaging, Power and Thermal Management

We extend our sincere appreciation to all organisers, presenters and contributors whose dedication and expertise have made this programme possible. Their continued efforts ensure the high technical quality and relevance that define the EuMW technical programme year after year.

The workshops and short courses are scheduled throughout the week in coordination with three EuMW conferences:

- EuMIC: Sunday – Monday
- EuMC: Sunday – Monday and Thursday
- EuRAD: Thursday – Friday

To enhance accessibility and flexibility for attendees, all presentation materials will be made available digitally during the conference. Please note that printed copies of the workshop and short course notes will not be provided. Registered participants will receive further information regarding access to the materials closer to the event.

We hope the programme will provide an engaging and rewarding experience for all attendees, and we look forward to welcoming you to London for an exciting and inspiring EuMW2026.



DR FATEMEH NOROUZIAN

Workshop & Short Course Chair

University of Birmingham, United Kingdom

SUNDAY 08:30 – 12:50**Challenges and Payoffs in Next-Generation SATCOM: Multi-Band, Multi-Orbit, Multi-Constellation Ground Terminals**Chair: Ryan Jennings¹Co-Chair: Dean White¹¹Qorvo**Room 6**

The promise of next-generation SATCOM lies in seamless global connectivity powered by multi-orbit, multi-constellation networks across LEO, MEO, and GEO. With Ka-band adoption accelerating and Q/W-band expansion on the horizon, the ground segment urgently needs to evolve. Yet technical barriers—massive array density, extreme thermal load, and prohibitive cost curves—remain unsolved. This course explores the critical technical and architectural challenges of delivering affordable, power-efficient ground terminals capable of supporting multi-band operations, digital beam steering, and 6G-aligned traffic requirements. Panelists will explore both the pain points and the strategic payoffs of success, including high-throughput edge access, unlicensed Q/W-band opportunities, and advanced mobility

for defence and commercial users. Topics covered: - Power/thermal tradeoffs in 6K-8K element Q-band phased arrays; - Hybrid analog/digital beamforming architectures; - System packaging and frequency co-design for LEO/MEO/GEO; - Integration strategies for multi-band RF front-ends; - Case studies on phased array pathfinding and cost optimization

SS01
EuMC**PROGRAMME****Welcome and Course Introduction**Dean White¹¹Qorvo**Deploying RF Subsystems for Next-Generation SATCOM Ground Terminal**Tudor Williams¹¹Filtronic**Beyond a Single-Orbit, Unlocking the Value of Multi-Band, Multi-Constellation SATCOM User Terminals**Mark Steel¹¹NexSAT**Network agnostic multi-orbit antennas; lessons learned from our first 1000 aircraft installations**Nick Zawistowski¹¹BAE**SATCOM Terminal Solutions for Mobility and Mission Use**Maria Grana Varela¹¹Insta**Building the RF Foundation for Advanced SATCOM Ground Terminals**Ryan Jennings¹¹Qorvo

SUNDAY 08:30 – 18:30

Fundamentals of Microwave PA Design

Chair: Paolo Colantonio¹Co-Chair: Rocco Giofrè¹¹University of Roma Tor Vergata**Room 7****SS02**
EuMIC

Semiconductor Power Amplifiers are key components in radio frequency and microwave transmitter systems. They have received a great deal of attention and development effort over the last decades and are still a hot topic in research area. This short course aims to provide a comprehensive overview of all aspects of fundamental semiconductor microwave power amplifier design. It is an introductory course, aimed at graduate engineers who have moved into the field of RF design, as well as to microwave designers who aim to deeply understand the power amplifier basic concepts. This short course features a range of presentations and will provide a comprehensive overview and basic understanding on recent important progress and novel state-of-the-art achievements in semiconductor

power amplifiers. Very recent advances in semiconductor amplifiers and their applications will also be covered. Starting from the fundamental concepts on semiconductor devices, the core of a power amplifier design, the theoretical foundations of a power amplifier design are discussed. It will include fundamental concepts and state-of-the-art results on actual designs of a range of semiconductor power amplifiers using existing foundries. The load pull technique is also addressed and focused on the designer perspective. The presentations will also cover a variety of advanced topics, and will provide the attendees with a clear overview of the main streams of current and important research trends worldwide in this field, as the Doherty architecture and the more recent load modulation power amplifier design

concepts. The short course will also focus on the major challenges, such as stability (small and large signal) and how to address these in amplifier design. Finally, accounting for the linearity issue, a basic overview on linearization techniques and their adoption to properly mitigate the amplifier distortion effects will conclude the short course.

PROGRAMME

Semiconductor devices for PAs

Ilitcho Angelov¹¹Chalmers University (Sweden)

PA theoretical foundation

Paolo Colantonio¹¹University of Roma Tor Vergata

Design and model-oriented Load Pull techniques: from basic CW to wideband and double pulsed Load Pull systems

Marco Pirola¹¹Politecnico di Torino (Italy)

Design and model-oriented Load Pull techniques: from basic CW to wideband and double pulsed Load Pull systems

Gustavo Avolio¹¹Maury Microwave, Eindhoven, The Netherlands

A practical guide to first-time-right integrated microwave PA design

Gijs van der Bent¹¹TNO Radar Technology Department (The Netherlands)

X-parameters high-power PAs modeling for System Level Analysis

Alessandro Cidronali¹¹University of Florence (Italy)

The Doherty Power Amplifier

Rocco Giofrè¹¹University of Roma Tor Vergata (Italy)

Balanced PAs: an old trick revival

Roberto Quaglia¹¹Cardiff University (UK)

Balanced PAs: an old trick revival

Aleksander Bogusz¹¹Cardiff University (UK)

Linear and Nonlinear Stability Analysis of Power Amplifiers

Giorgio Leuzzi¹¹University of L'Aquila (Italy)

Linearization techniques overview

Pere L. Gilabert¹¹Universitat Politècnica de Catalunya (UPC-Barcelona Tech.), Spain

MONDAY 08:30 – 12:50

Modern SatCom Waveforms and Payload Performance: Linearity, PAPR, Spectrum Compliance, and Advanced Signal Analysis

Chair: Aidin Taeb¹

Co-Chair: Raj Sodhi²

¹Keysight RF Solution Engineer, ²Keysight product Manager

Room 2

Next-generation satellite communication systems are rapidly evolving toward flexible, high-throughput, and software-defined payloads that integrate advanced waveform processing with increasingly complex phased-array architectures. While DVB-S2/S2X remains the dominant broadcast and broadband standard, many operators and research groups are investigating custom OFDM-based or adaptive waveforms to support dynamic beam steering, multi-beam operations, and on-board digital channelization. These innovations introduce new engineering challenges, including high PAPR sensitivity, nonlinear distortion in power amplifiers, multi-carrier interference, and beam-dependent performance degradation in large phased-array systems. This half-day short course brings together experts from

academia, industry, and test & measurement to explore the intersection of waveform design, payload hardware constraints, phased-array effects, and modern signal-analysis techniques. Topics may include DVB-S2/S2X PLFrame characterization, OFDM waveform adaptability, PA/DPD behavior under wideband high-PAPR conditions, array-level nonlinearity, beamforming impairments, and realistic end-to-end validation workflows for SatCom payloads. Measurement-focused sessions will demonstrate state-of-practice analysis methods—ranging from vector-domain DVB-S2/S2X demodulation and modulation-quality metrics to spectrum-domain nonlinearity and DPD-related evaluations using X-Apps. These techniques support both single-carrier and multi-beam payload scenarios, providing deep insight into time,

frequency, modulation, and spatial domains.

SM01
EuMC

PROGRAMME

Signal Quality and Spectrum Compliance in DVB-S2/S2X and Emerging SatCom Waveforms: Advanced Characterization Using the 89600 VSA

Raj Sodhi¹

¹Keysight product Manager

Power Amplifier Characterization with Digital Pre-Distortion: Wideband Linearity, PAPR Stress, and X-App Measurements

Aidin Taeb¹

¹Keysight RF Solution Engineer

Emulation-Driven Design and Testing of Power Amplifiers for Large Scale Beamforming Transmitters

Slim Boumaiza¹

¹Professor at University of Waterloo

The Application of Digital Predistortion in Enhancing Data Throughput for Space-Based Ku-Band Radio Systems in LEO

Aurora Nowicki¹

¹Hardware Test Engineering at Kepler Communications

MONDAY 14:10 – 18:30**Harnessing Phase Information to Improve RF Measurements**Chair: Markus Lörner¹Co-Chair: Thorsten Lück¹¹Rohde & Schwarz**Room 2****SM02**
EuMC

Precision is paramount in the microwave technology sector, where even small measurement inaccuracies can significantly affect device performance. This workshop, “Harnessing Phase Information to Improve RF Measurements” focuses on reliable characterization methods incorporating both amplitude and phase data – a critical need as RF devices become increasingly complex. Participants will learn to maximize the capabilities of modern test and measurement (T&M) instruments, including vector network analyzers (VNAs) and vector signal analyzers/generators (VSAs/VSGs), through a deep understanding of phase references and traceable calibration. This ensures confidence in measuring uncertainties and compliance with industry standards. The session features practical applications like time

domain transformation and frequency-converting circuit measurements, addressing real-world challenges faced by the microwave community. By fostering collaboration and knowledge sharing, we aim to empower professionals to enhance measurement accuracy and drive innovation. Ultimately, this workshop is vital for advancing the understanding and application of phase information in microwave technology.

PROGRAMME**Why defined phases matter and how to achieve them**Markus Lörner¹¹Rohde & Schwarz**Advanced measurement techniques with defined phases on multichannel signal analyzers**Florian Ramian¹¹Rohde & Schwarz**Advanced measurement techniques with defined phases on VNAs**Thorsten Lück¹¹Rohde & Schwarz**Characterizing electronic and optoelectronic pulse generators for traceable broadband phase referencing**Heiko Füsler¹¹Physikalisch-Technische Bundesanstalt (PTB)**Reliable Measurements of Modulated Signals: Establishing Traceability**Bryan Bosworth¹¹NIST Communications Technology Laboratory**Frequency-Agile Phase settings for High-Performance Beamforming**Peter Moosbrugger¹¹Qorvo**Behavioral Modeling via Time-Domain Signal Analysis**Mauro Marchetti¹¹Maury

THURSDAY 14:10 – 18:30

Brief INCOMPLETE History of Radar

Chair: Eric Mokole¹

¹Retired, U.S. Naval Research Laboratory

Room 15

STh01
EuRAD

In this short course, a brief and incomplete history of radar from publicly accessible resources is presented. The discussion is divided into 5 time periods (1865-1930, 1930-1945, 1945-1992, 1992-2007, 2007-present), with the major emphasis on developments through WWII (1945). Only selected highlights will be presented from 1946 to the present. No individual or nation has had access to all historical information, because such knowledge was (and often still is) considered sensitive with regard to each country's national security and was withheld from publicly releasable venues. Historically, radar-enabling technological developments often occurred simultaneously and independently in different countries, unbeknownst to the other countries. The 1865-1930 segment discusses the theoretical and experimental foundations of radar (radar pre-history). The date 1865 corresponds Maxwell's publication, "A dynamical theory of the electromagnetic field." During

the second period (1930-1945), serious developments of operational radars that were secretly initiated in many countries simultaneously and independently in anticipation of World War II (WWII) are discussed. The period (1945-1992) covers post WWII to the dissolution of the Soviet Union and witnessed the Cold War, the space race, and publication of theoretical concepts that put radar design on a better quantitative foundation. From 1945-1950, progress in radar technology slowed considerably and radar innovation plateaued, because efforts focused principally on WWII developments like monopulse-tracking, moving-target-indication, and phased-array radars. Military and civilian radar developments significantly increased, with widespread use in meteorology, air traffic control, aviation, planetary observation, etc. Major improvements were achieved through significantly better signal-processing software/hardware. Some new radar types were invented (SAR,

ISAR, space, ultrawideband). The period 1992-2007 corresponds roughly to the advent of 2nd generation (2G) digital cellular technology; much of its technology base, hardware miniaturization, and increased computer memory/speed formed the foundation for waveform-diverse systems like digital array radar, software-defined radar, micro-Doppler, joint RF functionality, and multifunctional radar. The start of the period from 2007-present is arbitrarily chosen to reflect the beginning of the tremendous growth of bandwidth-intensive communication applications. Discussed topics include spectrum EMC, spectral harmony, RF convergence, distributed systems, and notions of software-defined and cognitive radars. Two final sections present closing observations and a set of references.

PROGRAMME

Brief INCOMPLETE History of Radar

Eric Mokole¹

¹Retired, U.S. Naval Research Laboratory

FRIDAY 08:30 – 12:50

Integrated Sensing and Communications: Fundamentals, State-of-the-Art and the Road Ahead

SF01
EuRAD

Chair: Maria-Sabrina Greco¹

Co-Chair: Christos Masouros²

¹U. Pisa, ²UCL

Room 10

The emergence of applications such as smart cities, urban security, smart mobility, and infrastructure monitoring, demands next-generation networks with multi-functional capabilities beyond communication to address 6G KPIs like ultra-high data rates, precise localization, low latency, and energy efficiency, while aligning with the UN's Sustainable Development Goals. Spectrum congestion has been a major bottleneck in the network design, and for more than a decade, spectrum sharing, co-existence and dynamic spectrum licensing has been the prevalent paradigm. The proposed Short Course overviews the emerging wireless technology of Integrated Sensing and Communications (ISAC), that is shifting the paradigm from co-existence to co-design. The timeliness of this Short Course is underlined by the

global push by academia, industry, and standards bodies to incorporate ISAC into 6G and beyond. Delegates will benefit from insights into ISAC's foundational principles, practical implementation strategies, and how it underpins emerging applications like intelligent transportation, WiFi sensing, and perceptive mobile networks. It offers a comprehensive view of how ISAC technologies can address spectrum congestion, improve sustainability, and create new opportunities in wireless network design, appealing to researchers, industry professionals, and early-stage scholars. The Short Course will cover the below content: • Motivation: emerging wireless applications demanding ISAC and the potential for a sustainable provision; • Basics on Radar; • Basics on Communications; • Signalling design: Sensing/

Communication-Centric ISAC Designs; • Signalling design: Joint waveform design for ISAC, beamforming ISAC designs, pareto framework, and hardware efficient ISAC; • Network level ISAC design and optimization; • Distributed ISAC: Synchronisation issues and solutions; • Security challenges and opportunities for ISAC, and state of the art secure ISAC techniques; • Cognitive sensing techniques for ISAC; • MIMO Radar cognitive beamforming; • Experimentation and proof-of-concept results

PROGRAMME

Short course Part A

Christos Masouros¹

¹UCL

Short course Part B

Maria-Sabrina Greco¹

¹U. Pisa

FRIDAY 08:30 – 12:50

Digital Twins for Radar Systems: Modeling, Simulation, and AI Applications

Chair: Giorgia Zucchelli¹

¹MathWorks

Room 16

SF02
EuRAD

Digital twins are transforming radar system development by providing virtual representations that mirror real-world radar operations. In this short course, we introduce the concept of digital twins for radar applications, focusing on how these virtual models enable rapid design, analysis, and optimization of radar systems before building costly prototypes. Participants will learn how digital twins integrate antenna arrays, RF front-ends, and advanced signal processing algorithms—including AI and deep learning—into a unified simulation environment. We begin with the basics of modeling a radar's front-end and antenna array, showing how electromagnetic simulations inform system-level performance. Next, we explore scenario modeling, where digital twins simulate radar operation in

realistic environments, accounting for terrain, atmospheric conditions, interference, and clutter. Through hands-on examples, we demonstrate how to use digital twins to evaluate radar coverage, beamforming, and beam-steering techniques, and how these models help predict system performance in complex, large-scale tracking scenarios. The course also introduces AI-assisted target classification, where digital twins generate synthetic radar data to train and evaluate machine learning and deep learning algorithms. We discuss the advantages of using digital twins for rapid prototyping, performance trade-off analysis, and cognitive radar development in crowded RF environments. Throughout, we use MATLAB to illustrate practical workflows, emphasizing how digital twins balance modeling fidelity,

analysis speed, and optimization needs. By the end, attendees will understand how digital twins accelerate radar innovation, reduce development costs, and improve real-world system performance.

PROGRAMME

Introduction to Digital Twins for Radar Systems

Giorgia Zucchelli¹

¹MathWorks

Modeling Antenna Arrays and RF Front-Ends

Giorgia Zucchelli¹

¹MathWorks

Scenario Simulation: Environment, Clutter, and Propagation

Steven Thomsett¹

¹MathWorks

AI and Machine Learning for Radar Data Analysis

Steven Thomsett¹

¹MathWorks

FRIDAY 08:30 – 12:50

Beyond Vision: 4D Radar and Sensor Fusion AI for Robust Perception

Chair: Seung-Hyun Kong¹

Co-Chair: Dong-Hee Paek¹

¹KAIST

Room 17

SF03
EuRAD

4D millimeter-wave (mmWave) imaging radar has rapidly emerged as a key sensing modality for autonomous systems, offering robust 3D spatial perception with radial velocity measurement under all weather and lighting conditions. Unlike cameras and LiDAR, 4D radar maintains reliable performance in rain, fog, snow, and dust, making it an indispensable component of next-generation perception systems. However, effectively leveraging 4D radar data for AI-based perception remains challenging due to its inherent sparsity, noise, and low angular resolution compared to other sensor modalities. This short course is an updated and significantly expanded version of our tutorials previously presented at IEEE IV 2024 (<https://www.ieee-iv-4dradar.org/>) and IEEE ICRA 2025 (<https://sites.google.com/view/icra25-4dradar-tutorial>), incorporating the latest research advances in 4D radar perception and multi-modal fusion AI. The course begins with an introduction to 4D radar fundamentals and data representations essential for AI-based approaches. It then covers 4D radar perception AI in depth, including backbone design, 3D object detection, occupancy prediction, and radar-based SLAM. The course further explores multi-modal sensor fusion, presenting advanced methods for integrating 4D radar with cameras and LiDAR through feature-level fusion, knowledge distillation, auto-labeling, and generative data augmentation. Finally, the course addresses emerging topics and future directions, including foundation models, adverse weather perception, edge deployment, and applications beyond automotive domains such as

robotics, UAVs, and industrial environments. This course is designed for researchers and engineers across RF/microwave and AI communities seeking to bridge the gap between radar hardware expertise and modern deep learning-based perception. No prior deep learning experience is required.

PROGRAMME

Introduction to 4D Radar for AI-Based Perception

Seung-Hyun Kong¹

¹KAIST

4D Radar Perception AI

Dong-Hee Paek¹

¹KAIST

Multi-Modal Sensor Fusion AI

Dong-Hee Paek¹

¹KAIST

Emerging Topics & Future Directions

Seung-Hyun Kong¹

¹KAIST

SUNDAY 08:30 – 18:30**Additive Manufacturing of Microwave Components and Systems**Chair: Tinus Stander¹Co-Chair: Cristiano Tomassoni²¹University of Pretoria, ²University of Perugia**Room 1****WS01**
EuMC

Additive manufacturing has firmly established itself as a valuable tool for rapid prototyping and cost-effective low-volume production of RF, microwave and mm-wave devices and systems. While powder bed fusion techniques remain important in direct printing of metal components, metallization of 3D printed photopolymers and thermoplastics have created new opportunities with significant cost and weight advantages. This workshop brings together additive manufacturing experts from academia and industry to showcase new design and manufacturing techniques, as well as equipment and materials, for additively manufactured microwave components. The workshop also highlights application of these designs in a variety of industries. Key technologies included in this year's workshop are

micro-stereolithography for sub-THz components, sustainable multi-layer printed electronics and polymer jetting, while design-for-print and wearable electronics design strategies will also feature prominently.

PROGRAMME**Metal 3D Printed Filters and Antenna Feeders**Yi Wang¹¹University of Birmingham**Monolithic Metallic Additive Manufacturing for High-Frequency Microwave Components: From Design Methodology to Industrial Deployment**Pepe Rico¹¹Northern Waves**Multimaterial Additively Manufactured RF Electronics**Yang Yang¹¹University of Technology Sydney**RF components by Cyclic Olefin Thermoset vision-controlled jetting**Scott Twiddy¹¹Inkbit**From Nanoparticles to Functional Inks: Additive Manufacturing of Microwave Components and Systems**Atif Shamim¹¹KAUST**Passive microwave components made by micro-SLA resin printing and metallic coating and their space qualification**Andreas Frölich¹¹Horizon Microtechnologies**Additive manufacturing of sub-THz passive components using new generations of printers**Nicolas Delhote¹¹XLIM**Recent advances in 3D printed dielectric-filled waveguides and waveguide components**Archibald Wishard Rohde¹¹University of Pretoria**From Silver Mirrors to Microwave Components**Dominik Langer¹¹Technische Universität Hamburg-Harburg

SUNDAY 08:30 – 18:30**Accurate Signals, Linear Amplifiers: Measurement Techniques from RF to Sub-THz**Chair: Osamu Kusano¹Co-Chair: Jan Verspecht¹¹Keysight Technologies**Room 17****WS02**
EuMC

As wireless systems advance toward higher frequencies and wider bandwidths for 5G-Advanced, 6G, and satellite communications, demands on signal generation accuracy and amplifier linearity continue to grow. Measurement techniques that work well at conventional RF bands often fall short at millimeter-wave and sub-THz frequencies, where mismatch effects, phase instability, and limited device power challenge established practices. This full-day workshop brings together measurement scientists from Keysight Technologies and researchers from academia and industry to address these challenges. Each presentation builds from fundamental principles before introducing advanced techniques, making the workshop accessible to engineers at all experience levels. The morning session

covers three core measurement techniques. The first explains how impedance mismatch degrades signal accuracy and introduces match-corrected signal delivery using embedded reflectometry. The second revisits the fundamentals of modulation quality assessment and proposes Equalized Channel Capacity as a universal, information-theoretic alternative to traditional EVM. The third covers the principles of phase coherence and demonstrates multi-channel signal generation techniques for MIMO and angle-of-arrival applications. The afternoon session features three invited presentations on advanced applications: Wideband PA linearization using analog pre-distortion, sub-THz measurement methodologies above 100 GHz, and digital pre-distortion for J-band (220–330 GHz) power amplifiers targeting

future 6G systems. Whether you are new to millimeter-wave measurements or an experienced RF engineer exploring sub-THz, this workshop offers practical knowledge of techniques that scale across frequency for next-generation wireless and sensing applications.

PROGRAMME**Match-Corrected Signal Delivery at the DUT Reference Plane**Randy Becker¹¹Keysight**Equalized Channel Capacity – A Universal Approach to Quantifying Modulation Quality**Jan Verspecht¹¹Keysight Technologies**Phase-Coherent Multi-Channel Signal Generation for MIMO and AoA Applications**Osamu Kusano¹¹Keysight Technologies**Accurate Analog Pre-Distortion Achieving DPD-Like Performance**Tommaso Cappello¹¹Villanova University**Linearity and Signal Purity Challenges in Sub-THz Measurements**Eric Bryeton¹¹Virginia Diodes, Inc. (VDI)**Digital Pre-Distortion for J-Band Power Amplifiers**Ibrahim Abdo¹¹NTT Corporation**Improving mmW Design Prediction Accuracy through the Use of Measured Broadband Permittivity and Conductivity**Yoshiyuki Yanagimoto¹¹EMLabs, inc

SUNDAY 08:30 – 18:30

Advances in microwave to THz biomedical sensing and imaging: application to skin and breast cancer

Chair: Daniel Segovia-Vargas¹

Co-Chair: Elliott Brown², Zachary Taylor³

¹UC3M, ²WSU, ³Aalto University.

Room 4

WS03
EuMC

From microwave to THz, RF sensor technology has displayed the ability to detect a number of medical maladies, including breast cancer, corneal disease, skin burns and cancers; and it provides real-time, contactless monitoring of physiological vital signs. Malady detection usually depends on a contrast mechanism, such as differences in hydration between healthy and tumorous cells. However, these mechanisms are often difficult to describe in terms of standard electromagnetic quantities, like complex dielectric function and scattering parameters. The core problem is that hydration involves both “bound” and “free” water. While the dielectric function of “free” water is described well by the Debye models up to THz frequencies, “bound” water is hard to measure and factor into effective-media models. One

objective of the Workshop is to address dielectric models of soft tissue that account for “bound” and “free” water. Another challenge in RF biomedical imaging is spatial resolution. Many of the maladies require positive detection of small tumors and other objects that are much smaller than the RF wavelength so cannot be resolved by traditional RF coupling, like antennas or quasi-optical components. To improve the resolution, various near-field-coupling techniques have been demonstrated, and THz radiation (sub-1-mm-wavelength) been employed to reduce the diffraction limits. However, increasing the RF frequency always increases the attenuation in soft tissue, so there is always trade-off between resolution, and depth-of-penetration, which needs to be quantified in RF biomedical sensors, and is one objective

of the Workshop.

PROGRAMME

New equipment for microwave and mm wave biomedical characterization

Youzhi Li¹

¹Keysight Technologies

THz time-domain detection and imaging for medical applications

Don Arnone¹

¹Teraview

New advances in THz skin cancer detection

Emma MacPherson¹

¹University of Warwick

Camera characterization

Zachary Taylor¹

¹Aalto U.

Portable system for Microwave breast cancer detection (MABIS)

Daniel Segovia-Vargas¹

¹UC3M

Skin burn imaging

Elliott Brown¹

¹WSU

Contact-less devices for vital sign monitoring

Chris Van Hoof¹

¹Katholieke Universiteit Leuven

New approach to inverse scattering problem

Lorenzo Crocco¹

¹CNR - IREA

Breast cancer imaging and phantoms development

SUNDAY 08:30 – 18:30**Antenna Technologies for Non-Terrestrial Networks and SATCOM Terminals**Chair: Teun van den Biggelaar¹Co-Chair: Naila Rubab²¹Antennex, The Netherlands, ²Antennex, The Netherlands Eindhoven University of Technology, The Netherlands**Room 8****WS04**
EuMC

The rapid expansion of next-generation satellite communication (SATCOM) systems is being propelled by Non-Terrestrial Networks (NTN), Low Earth Orbit (LEO), and Medium Earth Orbit (MEO) constellations, along with integrated space-air-ground architectures. These advanced SATCOM systems demand radio frequency payloads that can deliver high throughput, ultra-reliable links, low latency, and seamless beam mobility, challenging engineers to develop breakthroughs in antenna design, system integration, digital processing, and validation methods within strict SWaP-C constraints. This workshop offers a unique opportunity to explore the latest technological advancements shaping future SATCOM terminals. Sessions will cover system architecture and requirement flows for NTN user and gateway terminals,

alongside cutting-edge electromagnetic modeling and co-design strategies that unify RF, thermal, and mechanical considerations. The impactful role of artificial intelligence and machine learning in antenna synthesis, calibration, fault detection, and adaptive beam control will also be highlighted. Additional focus will be on integrated antenna technologies such as active phased arrays, RFIC/beamformer integration, and scalable manufacturing and packaging solutions suitable for mass deployment. Dedicated discussions on digital and hybrid beamforming, Doppler effects in high-dynamic LEO scenarios, and advanced signal processing techniques will emphasize strategies to optimize link performance. The workshop will conclude with insights into emerging over-the-air measurement and validation

techniques essential for certifying NTN terminals. By bridging design, production, and verification, this forum aims to catalyze innovation and encourage collaboration across the next-generation SATCOM antenna ecosystem.

PROGRAMME**Requirements and design of D2D constellations**Carolina Viganò¹¹Viasat, Switzerland**Advances in Antenna Technologies for SATCOM**Alessandro Garufo¹¹TNO, The Netherlands**AI/ML techniques for in-flight correction of Array Fed Reflector deformation**Martin Togstad¹¹Large Space Structures GmbH, Heriot-Watt University**Advances in Ridge Waveguide Phased Array Antennas: Scan Limits and Design Solutions**Sören Harms¹¹TU Eindhoven**Textile-based terrestrial user terminal antenna**Hoda Nematollahi¹¹ESA**Multiple Beam Forming Phased Array Architectures for NTN User Terminals**Yanki Aslan¹¹TU Delft**Emerging OTA measurement techniques for NTN terminals**Teun van den Biggelaar¹¹Antennex, The Netherlands

SUNDAY 08:30 – 18:30

Current Trends in MMW and THz components

Chair: Nicolas Delhote¹

Co-Chair: Aurelian Crunteanu¹

¹XLIM Research Institute, CNRS/ University of Limoges, France

Room 9

WS05
EuMC

This workshop provides an opportunity for presenters to share their work in multiple domains and application covered by the mm-wave and THz spectrum. A great part of this workshop will highlight extremely accurate manufacturing technologies able to comp with such high frequency, namely additive manufacturing, deep reactive ion etching (DRIE), ultra-precise deposition (UPD), structured glass technology, on laser-induced deep etching and micromachining. Based on these state of the art fabrication means, their potential is illustrated through extremely accurate interconnects and packaging, filters, couplers and power dividers. The application to antennas, MIMO front-end, metasurfaces for communications, beamsteering modules for 5G, 6G, radar and space applications as well as

integrated sensing and communication will be highlighted thanks to renowned speakers. Thanks to this workshop, the attendees will have a snapshot of up to date activities in these field all gathered in a full day workshop.

PROGRAMME

Silicon-micromachined devices for mm and sub-mm wave communication and sensing

Joachim Oberhammer¹

¹KTH Royal Institute of Technology, Sweden

Additively Manufactured FHE-Enabled Wireless/5G+ Ultrabroadband Components and Modules for IoT, SmartAg, Industry 4.0 and AI-enabling ISAC/JCAS Applications

Manos M. Tentzeris¹

¹School of ECE, Georgia Tech, USA

Functional Materials for Millimeter-waves and THz Agile Devices

Aurelian Crunteanu¹

¹XLim - UMR 7252 - CNRS- University of Limoges

Tentative: Structured glass technologies and 3D printing for mm-wave and THz components

Chad Bartlett¹

¹Department of Electronic Electrical and Systems Engineering School of Engineering University of Birmingham, UK

THz packaging: interconnects and antenna integration

Thomas Zwick¹, Elizabeth Bekker¹

¹Karlsruhe Institute of Technology (KIT), Germany

Multi-Diversities via Leaky and Standing Wave Radiations for Sensing and Communications

Steve Hang Wong¹

¹Department of Electrical Engineering, City University of Hong Kong

Monolithic Q/V/W feed chains for next generation feeder links

Maria Garcia-Vigueras¹

¹IETR and INSA Rennes, France

SUNDAY 08:30 – 18:30

Advanced power sensing for frequencies above 140GHz

Chair: Daniel Stokes¹

Co-Chair: Murat Celep¹

¹National Physical Laboratory (NPL) [UK]

Room 10

WS06
EuMC

With the increased use cases for high frequencies greater than 100 GHz, the need for metrological traceability has grown. This workshop focuses on one of the high frequency fundamental parameters, power. Specifically, the development of new sensors and sensing technologies needed to achieve primary level traceability and the systems used to disseminate this to end users. The workshop will cover topics such as:

- The design and fabrication of traceable power sensors.
- The fundamentals of testing and characterizing these new sensors.
- New measurement hardware developed by European National Measurement Institutes (NMI's) which allow for primary level SI traceability. -How this traceability is disseminated from NMI labs to end user artifacts.

Speakers will be from academic institutes, industry and several European NMI's.

PROGRAMME

140 - 220 GHz power sensor characterization at TUBITAK UME

Erkan Danaci¹

¹TUBITAK UME

Thermoelectric RF power transfer standards – calibration methods and comprehensive characterization

Marcel Thraenhardt¹

¹Rohde & Schwarz

Novel power measurement technologies: Challenges and commercial solutions above 140 GHz

Eric Breakenridge¹

¹Keysight Technologies (UK)

140 - 220 GHz power sensor characterization at NPL

Daniel Stokes¹

¹National Physical Laboratory (NPL) [UK]

Recent advances in microcalorimeter for use as microwave power standards at LNE

Doudou BA¹

¹LNE (France)

Design, Implementation, and Scalability of a 140 - 220 GHz metrology power sensor

Yi Wang¹

¹University of Birmingham

The dissemination of traceability for RF power up to 220 GHz at PTB

Karsten Kuhlmann¹

¹PTB

SUNDAY 08:30 – 18:30

Advances in cryogenic microwave design and measurement techniques of superconducting and spin qubits

Chair: Felice Francesco Tafuri¹

Co-Chair: Daryoush Shiri²

¹Keysight Technologies, Italy, ²Keysight Technologies, Singapore

Room 11

WS07
EuMC

This workshop addresses the cryogenic microwave engineering challenges of reading out superconducting and spin qubits with high fidelity and scalability. The morning session introduces key hardware solutions, including parametric amplifiers such as Josephson and traveling-wave designs, and advanced spectroscopic methods for spin-based qubits. These talks emphasize how amplification and noise performance impact system-level readout. The afternoon session focuses on design strategies of novel superconducting qubits, microwave resonator modelling, design challenges of large qubit chips, cryoCMOS chip design for spin qubits. We will also explore system-level noise modeling and integration approaches for high-density readout. The goal is to provide practical insights into device selection, circuit

design, and system optimization for next-generation quantum computing platforms.

PROGRAMME

High-Fidelity single-shot Readout of Superconducting Qubits

Felice Francesco Tafuri¹

¹Keysight Technologies, Italy

Hardware-accelerated Quantum Indicators for metrology of Josephson Microwave Amplifiers

Emanuele Enrico¹

¹Istituto Nazionale di Ricerca Metrologica (INRiM), Italy

Accurate Cryogenic S-parameter measurements for reflectometry-based Qubit Readout

Manoj Stanley¹

¹National Physical Laboratory (NPL) [UK]

Wiring up molecular spins with Microwave Circuit QED technology

Fernando Luis¹

¹INMA-CSIC, Spain

Practical microwave resonator measurement and modeling for Qubit Readout

Martin Weides¹

¹James Watt, School of Engineering, University of Glasgow, UK

Physics and Design principles of Minimon and Exotic superconducting Qubits

Rainer Dumke¹

¹Centre for Quantum Technologies (CQT), Singapore

Testing RF ASICs for scaling spin Qubit systems

James Kirkman¹

¹Quantum Motion, UK

Overview of Design Tools and challenges for superconducting Qubits

Aneirin Baker¹

¹National Quantum Computing Center (NQCC), UK

Noise and System Level simulation for Superconducting Qubit Readout

Daryoush Shiri¹

¹Keysight Technologies, Singapore

SUNDAY 08:30 – 18:30

Advances in AI-Driven Microwave Design: From devices up to system-level

Chair: Fábio Passos¹

Co-Chair: Simona Donati Guerrieri²

¹University of Lisbon, ²Politecnico di torino

Room 12

WS08
EuMC

The rapid integration of artificial intelligence (AI) and machine learning (ML) techniques into microwave engineering is transforming the way devices, circuits, and systems are conceived, optimized, and deployed. This workshop aims to provide a comprehensive overview of recent advances in AI-driven microwave design, spanning multiple abstraction levels—from antennas, passive and active devices, through circuits, up to subsystem/system level. At the device and component level, the workshop will address data-driven modeling, surrogate models, inverse design, and fast electromagnetic optimization for antennas and passive devices. Moving to the circuit and subsystem level, contributions will highlight AI-assisted synthesis and co-design methodologies from specifications to layout. At the system level,

the workshop will explore AI-enabled design and optimization of systems, including hardware-algorithm co-design and digital twins. This workshop aims to bridge microwave theory, electromagnetic simulation, and modern AI techniques, offering attendees a unified perspective on how AI can accelerate innovation, reduce design cycles, and enable next-generation microwave and mm-wave systems.

PROGRAMME

Introduction to ML/AI for microwave applications

Qi-Jun Zhang¹

¹Carleton University

Accelerating RF design, analysis, and optimization with AI

Giorgia Zucchelli¹

¹Mathworks

AI-driven design of RF passives and integrated circuits

Bo Liu¹

¹University of Glasgow

AI Enabling Discovery and Design of Radio and High-Frequency Wireless Chips Beyond

Kaushik Sengupta¹

¹Princeton University

Towards Generative AI for Analog and RF IC Design: From Spec to Layout

Sensen Li¹

¹University of Texas at Austin

Loadpull data into Circuit Simulator Using Artificial Neural Networks

Gustavo Avolio¹

¹Maury Microwave, Eindhoven, The Netherlands

Loadpull data into Circuit Simulator Using Artificial Neural Networks

Mauro Marchetti¹

¹Maury

Machine-Learning based Digital Predistortion Solutions for High-efficiency Power Amplifiers for Base Stations

Pere Gilabert¹

¹Universitat Politècnica de Catalunya

Digital twins and self-learning AI for RF and microwave

Dmitry Gnatyshak¹

¹Keysight

Digital twins and self-learning AI for RF and microwave

Majid Ahadi Dolatsara¹

¹Keysight

SUNDAY 08:30 – 18:30**Advanced IC Design for mm-Wave and Beyond**Chair: Alessandro Fonte¹Co-Chair: Luca Aluigi²¹SIAE Microelettronica, ²Huawei Technologies**Room 13****WS09**
EuMC/
EuMIC

Design and package of advanced integrated circuits operating at mm-Wave and sub-THz frequencies has become the central challenge in modern communication, radar, and satellite systems, as well as in emerging beyond-5G and early 6G scenarios. The continuous push toward higher data rates, wider bandwidths, and improved energy efficiency is driving IC designers to operate at increasingly higher frequencies, where conventional design assumptions often break down. This workshop focuses on critical aspects, key techniques, and practical insights for the design and integration of ICs at mm-Wave and sub-THz frequencies.

Core topics include high-frequency device and circuit modeling, power-efficient transmitter and receiver architectures, thermal and reliability issues, advanced integration and packaging strategies, and the impact of emerging technologies, materials, and fabrication processes. Particular emphasis will be placed on satellite communications and high-capacity wireless links, where mm-Wave and sub-THz solutions are rapidly transitioning from research to real-world deployment. The technical program consists of invited talks covering device-, circuit-, and system-level perspectives, followed by a focused mini panel session addressing

silicon versus III-V technologies, with an emphasis on performance limits, integration challenges, and system-level trade-offs. Participants will gain a realistic perspective on current limitations and future opportunities, and will leave with a clearer understanding of the challenges that must be addressed to enable robust, scalable, and high-performance and very high-frequency ICs.

PROGRAMME**Key MMIC Components for V-Band Inter-Satellite Links**Ernesto Limiti¹¹Dept. of Electronics Engineering University of Rome Tor Vergata, Rome, Italy**Transistor stacking and load-modulation: from low to high frequency**Vittorio Camarchia¹¹Department of Electronics and Telecommunications Politecnico di Torino Torino, Italy**Challenges in IC design for 6G: Fundamental SiGe BiCMOS Building Blocks**Guglielmo De Filippi¹¹Fondazione Chips-IT, Pavia, Italy**Sculpting mm Wave Performance: Passive Innovation, local-backside-etching advantages, and Sub THz practical insights**Aniello Franzese¹¹IHP – Leibniz-Institut für Innovative Mikroelektronik, Frankfurt (Oder), Germany**Design of a 39 GHz digital beam-forming TRX in 22FD SOI**Jerome Prouvee¹¹CEA LETI, Grenoble, France**Integrated Millimeter-Wave Avalanche Noise Sources for Cryogenic Applications**Federico Alimenti¹¹Department of Engineering, University of Perugia Perugia, Italy**From mm-Wave Measurements to Nonlinear Transistor Models: Challenges and Practice**Valeria Vadala¹¹University of Milano-Bicocca, Milan, Italy**From Switched-Beam Architectures to mm-Wave IC Limits: Practical Insights for Highly Integrated SatCom Terminals**Emilio Arnieri¹¹Millimeter-Wave Antennas and Integrated Circuit Laboratory (MAIC LAB) University of Calabria, Quattromiglia, Italy**System- and antenna-in-package design > 100 GHz: a practical approach with multiphysics simulation**Francesco Filice¹¹IMEC, Leuven, Belgium**Multi-Antenna Transceivers Exploiting Spatial Processing**Dominique Morche¹¹CEA LETI, Grenoble, France**MINI PANEL SESSION: Silicon vs. III-V Technologies: Implications for Millimeter-Wave IC Development**Alessandro Fonte¹¹SIAE Microelettronica, R&D Dept., Italy

SUNDAY 08:30 – 18:30

Exploring the Innovative Technologies and Circuits Driving the Transition to 6G

Chair: Florinel Balteanu¹

Co-Chair: Andrei Grebennikov²

¹Skyworks Solutions Inc. USA, ²Sumitomo, London, UK

Room 14



Research in 6G radio frequency (RF) technology is advancing rapidly in parallel with the widespread adoption of 5G. The integration of artificial intelligence (AI) is anticipated to necessitate higher data rates, thereby accelerating the development of 6G. Future 6G networks are expected to operate at higher frequencies, including 7-25 GHz for FR3 bands in mobile devices and up to 300 GHz for fixed wireless networks. These frequency ranges are critical for achieving enhanced data rates and improved connectivity. Progress in CMOS semiconductor technology, particularly at 2-nm feature sizes, is enabling advancements in smartphone applications. In conjunction with artificial intelligence, these developments are projected to further increase the demand for higher uplink data rates in 6G. This workshop will

examine current 5G RF cellular designs, challenges associated with the transition to 6G, and anticipated advancements in circuit architecture, semiconductor, and packaging technologies that will enable this evolution, including AI-assisted design.

PROGRAMME

From analog/RF SoC to 6G chip-let heterogeneously integrating III-V & Si technologies: Challenges & Perspectives

Frédéric Ganesello, Pascal Chevalier¹

¹ST Microelectronics, Grenoble, France

PA/Transmitter Design and Architecture for 6G – Leveraging AI-assisted design

Han Zhou¹, Victor Åberg², Gregor Lasser³, Christian Fager³

¹Tampere University, ²Lund University, Lund, Sweden, ³Chalmers University, Sweden

Advanced High-Efficiency GaN PA Module for FR3 massive MIMO Base-Stations

Kento Saiki¹, Shuichi Sakata¹

¹Mitsubishi Electric Corporation, Kanagawa, Japan

Trends and Challenges in Power Amplifier Linearization on the Path to 6G

Pere L. Gilabert¹

¹Universitat Politècnica de Catalunya, Barcelona, Spain

Time-Division Phased-Array Transceivers for 6G Massive MIMO

Kenichi Okada¹

¹Institute of Science, Tokyo, Japan

Radio Architectures and Technologies for FR3-6G Infrastructure

Rui Ma¹

¹pSemi Murata, Boston, MA, USA

6G FR3 Power Amplifier Design Considerations for Mobile Communications in B55X Technology

Paul Rezette¹, Nathalie Deltime², Eric Kerhervé³

¹INP/ENSEIRB-MATMECA, Bordeaux, France, ²INP/ENSEIRB-MATMECA Bordeaux, France, ³IMS Bordeaux

Transition to FR3-6G RF Front End Modules

Florinel Balteanu¹

¹Skyworks Solutions Inc. USA

MONDAY 08:30 – 18:30**On-Wafer Microwave Measurement Techniques for 6G and Beyond**Chair: Abhijeet Kanitkar¹Co-Chair: Xiaobang Shang²¹Ferdinand-Braun-Institut gGmbH (FBH), ²National Physical Laboratory (NPL)**Room 1****WM01**
EuMC

Accurate on-wafer measurements play an important role in the development of many established and emerging applications such as 6G communication, quantum computing, radar sensing. However, despite the significant progress made over the last decade in improving the accuracy of on-wafer measurements, several challenges remain to be overcome, particularly as frequency of operation increases. Through this interactive full-day workshop, international experts will share their experience and guide us through different aspects of on-wafer measurement techniques. The workshop addresses key aspects of advanced on-wafer measurement techniques, with a particular focus on precise material characterization for 6G and other emerging technologies. It covers recent advancements in automatic model-extraction

methods for novel calibration techniques, innovative approaches for leakage correction using TRL standards, and the growing importance of AI-assisted automatic probing and RF signal detection. The speakers will discuss methodologies for transferring the accuracy of multiline TRL calibration from industrial BiCMOS technologies to commercially available substrates, as well as provide a CMOS IC designer's perspective on on-wafer measurements. Key challenges in on-wafer S-parameter, noise measurements, characterization of advanced transistor technologies, and field-mapping techniques for 6G communication systems will be examined. The workshop will also feature recent experimental results, including single-sweep wafer-level measurements up to 250 GHz, and multi-mode differential de-embedding

and calibration results extending to 220 GHz. To summarize the workshop, we will initiate an open discussion to allow audience to interact with speakers. This will give everyone an opportunity to discuss the presented topics in detail and provide broad feedback on potential future topics.

PROGRAMME**Advancements in precise material characterisation up to 170 GHz towards 6G communications and other emerging technologies**Marzena Olszewska-Plachal¹, Bartłomiej Salski²¹QWED, ²Warsaw University of Technology**Transfer of mTRL Accuracy in industrial BiCMOS Technology to commercial Lumped-Element Calibrations up to 110 GHz**Gia Ngoc Phung¹, Uwe Arz², Samuel Nguyen Dinh An¹, Joao Carlos Azevedo Goncalves²¹Physikalisch Technische Bundesanstalt (PTB), ²STMicroelectronics, ³Institute of Electronics, Microelectronics and Nanotechnology (IEMN)**First Calibration and Measurement Results of a Novel Wafer-Level Single-Sweep 100 kHz-250 GHz System**Suren Singh¹, Andrej Rumiantsev²¹Keysight Technologies, ²MPI Corporation**A new perspective on on-wafer measurement technique with TRL calibration standards**Chong Li¹¹University of Glasgow**Automatic Model Extraction for the symmetric-reciprocal-match (SRM) VNA calibration**Michael Ernst Gadringer¹¹Institute of Microwave and Photonic Engineering, Graz University of Technology**AI-Assisted Probe Alignment and Measurement for Next-Generation RF Devices**Kamel Haddadi¹¹University of Lille**Recent progresses in on-wafer measurement with RF signal detection technique**Ryo Sakamaki¹¹National Institute of Advanced Industrial Science and Technology (AIST) and Hiroshima University**De-embedding topics related to broadband, differential on-wafer measurements**Jon Martens¹¹Anritsu Company**Multi-Mode Multi-Line Thru-Reflect-Line Calibration for On-Wafer Differential Measurements up to 220 GHz**Xinghao Tong¹, Lei Li¹, Antonio Morini², Marco Farina², James C. M. Hwang¹¹Cornell University, ²Marche Polytechnic University

Challenge of On-Wafer S-Parameters and Noise Measurements in an Industrial Environment for Advanced Silicon Devices

Joao Carlos Azevedo Goncalves¹, Samuel Nguyen Dinh An²

¹STMicroelectronics, ²Institute of Electronics, Microelectronics and Nanotechnology (IEMN)

A High-Precision 16-Term Calibration Approach for Bias-Dependent Characterization of Scaled InP HBTs

Ralf Doerner¹, Thomas Flisgen², Wolfgang Heinrich³, Abhijeet Kanitkar¹

¹Ferdinand-Braun-Institut gGmbH (FBH), ²Brandenburg University of Technology, ³Ferdinand-Braun-Institut gGmbH (FBH), Leibniz Institut für Höchstfrequenztechnik

Field Mapping Techniques Using Electro-Optic Sensing for Electronics and 6G Communications

Young-Pyo Hong¹

¹Korea Research Institute of Standards and Science (KRISS)

A CMOS IC Designer's Look at On-Wafer Microwave Measurements

Shuhei Amakawa¹

¹Hiroshima University

SUNDAY 14:10 – 18:30

Emerging components for sub-terahertz 6G applications

Chair: Fabrizio De Paolis¹

Co-Chair: Withawat Withayachumnankul²

¹European Space Agency, ²The University of Adelaide

Room 6

WS11
EuMC

The rapid push toward 6G is accelerating global interest in sub-THz (sub-terahertz) technologies, where frequencies between 100-300 GHz promise unprecedented data rates, ultra-low latency, and seamless integration of sensing and communication. Realising this vision requires a new generation of components and subsystems that deliver high performance, manufacturability, and reliability across both terrestrial and space-based platforms. This workshop brings together leading developments from industry, research institutions, and academia to provide a comprehensive overview of emerging sub-terahertz hardware technologies that will underpin future 6G systems. The program will highlight recent advances in semiconductor devices, photonic-electronic signal generation, high-frequency packaging,

micromachined waveguides, and calibration methodologies that enable robust operation at sub-terahertz frequencies. Emphasis will be placed on compact, power-efficient front-ends; scalable fabrication approaches; and architectures that support joint communication-sensing, beam steering, and high-capacity backhaul. Contributions from space-focused initiatives will illustrate how sub-terahertz components are being adapted for high-altitude platforms, satellite payloads, and inter-satellite links, where constraints on mass, thermal management, and radiation tolerance drive unique design trade-offs. By convening industrial players alongside leading research laboratories and universities, the workshop aims to foster cross-sector dialogue on technology readiness, standardisation challenges, and

pathways toward commercial deployment. Attendees will gain a clear understanding of the current state of the art, emerging trends, and the critical component-level innovations required to unlock the full potential of sub-terahertz 6G networks.

PROGRAMME

Preparing the future of 6G: D-Band technologies to meet the rising demand for higher data capacity

Tudor Williams¹

¹Filtronic

Enabling Sub-THz 6G Satellite Systems: V, W and D-Band Payload Technologies

Hui Wang¹

¹RAL Space

Advancing RF components and transceiver design from W-Band to D-Band

Mark Kelly¹

¹Celtonn

Photonic generation and detection of sub-THz waves

Withawat Withayachumnankul¹

¹University of Adelaide

Electronic metadevices for sub-terahertz 6G applications

Gabriele Gradoni¹

¹University of Surrey

Advanced photomixer concepts to enable photonics-assisted sub-THz MIMO wireless networks

Fabrizio De Paolis¹

¹European Space Agency

TBC

Theodore Reck¹

¹Virginia Diodes, Inc.

TBC

Tadao Nagatsuma¹

¹University of Tokyo

TBC

Jan Stake¹

¹Chalmers University of Technology

MONDAY 08:30 – 12:50

Open-source Toolchain in RF and Digital Design

Chair: Sergei Andreev¹

Co-Chair: Corrado Carta¹, Farabi Ibne Jamal²

¹IHP GmbH, ²IHP - Leibniz-Institut für innovative Mikroelektronik

Room 3

WM02
EuMC

The European Chips Act serves as a strategic roadmap to secure technological sovereignty by aiming for a 20% global market share in semiconductors by 2030. The goal is to minimize the geopolitical supply chain risks and foster a self-sufficient ecosystem. Democratization of hardware development through the development of open-source EDA tools is a key pillar in these aspects. This would lower the entry barriers for SMEs and researchers, and ultimately accelerate a collaborative and transparent era of European silicon innovation. There are multiple EU funded projects have started from last few years. These projects are set to offer robust process design kits (PDK) for open-source tools. In parallel, existing open-source tools for IC design are being further enhanced to include necessary functionalities for

complete design flow for digital, analog and RF design. Aligning with above mentioned goals, multiple private, academic, and commercial entities have stepped up towards the development. This workshop aims to share a glimpse of activities in open-source EDA tools developments and chip design activities in Europe. It would begin with a talk about current EU projects and the statuses in open-source EDA development. Then there will be two talks about digital and RF design flow using open-source tools. The final talk is about electro-magnetic simulation for RF circuits. Overall, this workshop is targets to publicize the open-source activities towards the building of a collaborative society in chip design domain.

PROGRAMME

Current activities in open-source IC Design

Sergei Andreev¹

¹IHP GmbH

RF design using open-source EDA tools

Harald Pretl¹

¹Johannes Kepler University, Linz, Austria

End-to-end open-source Digital IC Design

Frank Gürkaynak¹

¹ETH, Zürich, Switzerland

EM simulation for IC design using open-source EDA tools

Giovanni Di Pietrantonio¹

¹IHP GmbH, Frankfurt (Oder), Germany

MONDAY 08:30 – 18:30

Photonic Technologies and Systems for RF Applications

Chair: Andreas Stöhr¹

Co-Chair: Guillaume Ducournau²

¹University Duisburg-Essen, ²Univ of Lille

Room 6

WM03
EuMC

Today, most devices and technologies rely on electronics to process, transmit, and analyze information. This workshop will address photonic RF technologies aiming to transform these electronic connections into photonic ones, increasing transmission speeds and improving responsiveness while consuming substantially lower levels of power. The key advantage of photonic RF technology is the potential to provide a continuous and interference-free coverage of multi-octave frequency bands up to the THz regime with only a single technological solution paving the way for a plethora of future applications, measurement technologies and metrology. Potential applications include high-capacity fixed wireless access, mobile mm-wave/THz communications, satellite communications, earth observation

and techniques for ultrawideband signal processing. Generic functions include multi-octave bandwidth high output power RF sources and receivers, optically pumped mm-wave/THz receiver, phase-stable transport of RF signals over optical fiber, optical beamforming technology. The workshop will provide an insight into the state-of-the-art of photonic RF technologies, and it aims to discuss whether maturity, performance and cost of photonic RF technology is ready to compete with existing solutions.

PROGRAMME

Photonic Terahertz Vector Network Analyzer for High-Frequency Test and Measurement Applications

Taro Eichler¹

¹Rohde & Schwarz

Photonics for test & measurement applications

Radu Lupoaie¹

¹Keysight

RF Photonics for Space

Alexander Hees¹

¹AIRBUS

Low-phase noise THz generation

Marcel Grzeslo¹

¹MWP

Photonics for THz VNA

Robert Kohlhaas¹

¹HHI

Photonic Terahertz Systems and their Use as High Frequency Measurement Equipment.

Nico Vieweg¹

¹OPTICA

RF photonics for real-time material analysis

Israa Mohammad¹

¹UDE

THz photonics for system-level testing

Guillaume Ducournau¹

¹Univ of Lille

Optical pumped heterodyne mixers

Oleg Cojocari¹

¹ACST

Plasmonics & photonics for Terahertz

Jürg Leuthold¹

¹ETH Zürich

Laser Sources Architectures for Classical and Quantum RF and Optical Sensing

Morvan Loic¹

¹THALES

THz mixers

Peter Huggard¹

¹Rutherford Appleton Labs

MONDAY 14:10 – 18:30

Old Dog New Tricks: Analog Linearization of RF/Microwave Power Amplifiers for Efficient and Wideband Transmitters

Chair: Tommaso Cappello¹

Co-Chair: Kevin Morris²

¹Villanova University, ²University of Leeds

Room 13

WM04
EuMC

The unprecedented growth of wireless devices has resulted in increasingly congested spectrum and power consumption issues. Power amplifiers (PAs) are designed to be linearized with digital pre-distortion (DPD) but this results in expensive hardware and power consumption issues. Analog pre-distortion (APD) can be used to reduce hardware costs and power consumption. This workshop presents several state-of-art analog linearizers ranging from sub-7GHz to mm-waves. Examples of these techniques are presented for a Doherty PA with 1.8GHz bandwidth: the APD circuit is specifically designed to correct the gain inflection with a triple-branch series-diode circuit. An alternative approach is to use diodes as a nonlinear impedance in reflective linearizers: this approach is demonstrated with a class-AB

PA between 1.4 and 2 GHz achieving 7-13 dB spectral regrowth reductions. The nonlinearity used for pre-distortion can be generated using a nonlinearity generator with vector modulator: this approach is demonstrated for a 3.5GHz PA demonstrating spectral regrowth reductions up to 23.7 dB. An alternative approach to RF pre-distortion is to modulate the gate bias of the RF PA to improve linearity using custom-built integrated modulator amplifiers. Similarly, a "generic analog linearizer" is demonstrated with an E-band PA with a 250-MHz 16-QAM waveform with substantial improvements in the spectral regrowth. Finally, the results of an APD circuit specifically designed to correct for the gain "hump" in high-efficiency Class-AB PAs is presented, showing full compliance with 5G requirements while consuming only few

milliwatts of power.

PROGRAMME

Analog Linearization of Doherty Power Amplifiers for Combined Efficiency and Linearity with High Peak-to-Average Power Modulated Signals

Alex Pitt¹

¹Compound Semiconductor Applications (CSA) Catapult, UK

Design of Wide Bandwidth Reflective Analog Predistorters (RAPD)

Jiayang Yu¹

¹University of Aveiro, Portugal

Analog Predistorter Design Considerations for 5G/ 6G Communication

Meenakshi Rawat¹

¹Indian Institute of Technology, Roorkee

A Controllable Analog Linearizer MMIC at E-band

Marcus Gavell¹

¹Gotmic AB, Sweden

Analog Linearity Enhancement for Overall Efficiency Improvement of Wideband Transmitters

Gregor Lasser¹

¹Chalmers University of Technology, Sweden

Analog Predistortion Linearizer for Class-AB Power Amplifiers

Tommaso Cappello¹

¹Villanova University

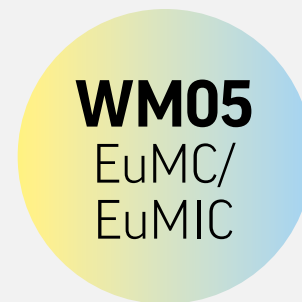
MONDAY 08:30 – 12:50

Embedding Sustainability into Electronics: A Workshop for Circuit Designers on Quantification, Implementation, and Future Technologies

Chair: Helmuth Morath¹

¹TU Dresden

Room 13



How can electrical engineers assess and improve the sustainability of electronics? This half-day workshop addresses this question by combining assessment methodologies, circuit-level design strategies, manufacturing considerations, and forward-looking material technologies. The workshop opens with Life Cycle Assessment (LCA) for Engineers, introducing the core methodology and terminology. The presentation shows how environmental impacts can be quantified across the full life cycle of electronic systems and how LCA results can support informed engineering decisions. It also highlights how raw material extraction and supply chains influence environmental performance and design risk. The second presentation focuses on Responsible Integrated Circuit Design, discussing how circuit

architectures and low-power techniques can reduce both energy consumption and material usage. The talk highlights trade-offs and limitations of different approaches and includes an overview of energy harvesting sources, techniques, and challenges as a pathway toward batteryless and energy-autonomous systems. The third contribution addresses Materials and Manufacturing, outlining recent developments in electronics and photonics packaging and heterogeneous integration aimed at lowering environmental impact. Emphasis is placed on green manufacturing approaches such as additive manufacturing, low-temperature integration and contacting technologies, and the use of recycled or sustainable materials for substrates and contacts. The workshop concludes that sustainability must be considered early-on

in Future Technologies: heterogeneous integration of semiconducting nanowires and two-dimensional materials, leads to enhanced properties of field-effect transistors and sensors. This can be performed in SOI processes, compatible to CMOS, as well as on novel substrates. The sustainability of these approaches will be investigated considering the full process.

PROGRAMME

How Sustainable Is Your Design? An Engineer's Introduction to Life Cycle Assessment

Azin Zarei¹

¹United Nations University

Design Trade-Offs for Sustainable Integrated Circuits: From Low-Power Techniques to Energy Harvesting

Helmuth Morath¹

¹TU Dresden

Sustainable electronics packaging and heterogeneous integration

Krzysztof Niewegłowski¹

¹TU Dresden

Designing Future Technologies with Sustainability in Mind: Nanowire and 2D Material Integration

Artur Erbe¹

¹Helmholtz-Zentrum Dresden-Rossendorf e.V.

MONDAY 08:30 – 18:30**Enabling Ultra-Low Noise RF Systems:
Technology, Materials and Metrology**Chair: Nizar Messaoudi¹Co-Chair: Chong Li²¹Keysight Technologies, ²University of Glasgow**Room 15****WM06**
EuMC/
EuMIC

The availability of high-volume, ultra-low-noise transistor technologies at cellular, Wi-Fi, and SATCOM frequencies poses a fundamental challenge to existing noise metrology practices. While traditional low-noise semiconductor technologies such as GaAs and InP have long dominated microwave and millimeter-wave applications due to their superior noise performance at higher frequencies, increasing system complexity and cost pressures are driving a transition toward heterogeneous integration of these materials with advanced silicon-based platforms across a broader frequency range. At these exceptionally low noise levels, state-of-the-art device noise measurement systems lack

the resolution and repeatability required to reliably distinguish the performance of competing device technologies, limiting actionable insight for system architects and technology developers. Recent worldwide investments in advanced semiconductor manufacturing, including RF, microwave, and millimeter-wave applications, further underscore both the urgency and the opportunity for enhanced public-private collaboration in this area. In parallel, there is growing interest in exploring emerging semiconductor materials such as GaN and GaAs to address complementary requirements in power handling, bandwidth, and ultra-low-noise operation across extended

frequency regimes. This workshop begins by motivating the need for extremely low minimum noise figure technologies, driven by applications such as LEO satellite communications, remote sensing, and emerging quantum computing systems. It then presents technology developers' experiences and limitations encountered with current noise metrology practices, and concludes with a forward-looking discussion involving commercial instrumentation vendors and national metrology institutes on potential paths toward next-generation noise measurement methodologies.

PROGRAMME**Introduction to the recent progress on microwave and mm-wave low noise technologies**Chong Li¹¹University of Glasgow**InGaAs Metamorphic HEMT Technologies for Cutting-Edge Low-Noise, High-Frequencies, and Ultra-Wideband Applications**Fabian Thome¹¹Fraunhofer IAF**trapping in GaN LNAs**Matthias Rudolph¹¹Brandenburg University of Technology Cottbus-Senftenberg**Low-noise GaN-on-Si HEMTs for mm-Wave Integrated T/R Modules**Ng Geok Ing¹¹Nanyang Technical University Singapore**Highly efficient 2D material based transceivers for space communications (tentative)**Peng Zhou¹¹Fudan University**Cryogenic InGaAs transistor for low-noise amplifier and routing circuits**Sanghyeon Kim¹¹KAIST**Challenges of On-Wafer Noise Parameter Measurements in an Industrial Environment for Advanced Silicon Technologies**Joao Carlos Azevedo Goncalves¹¹ST Micro**Practical Noise Figure Measurements: Methods, Limitations and Uncertainties**Nizar Messaoudi¹¹Keysight Technologies**Advancements Noise Parameters Characterization: from Room-Temperature to cryogenic applications**Mauro Marchetti¹¹Maury**Pushing the Limits of Wafer-Based Noise Characterization: Measurement Error at mm-Wave and Sub-THz**Bryan Hosein¹¹Focus Microwaves**Pulse-operated HEMT LNA using time-domain noise measurements**Jan Grahm¹¹Chalmers

MONDAY 08:30 – 18:30

Is RF GaN-on-Si ready for prime time?

Chair: Nadine Collaert¹

Co-Chair: Bertrand Parvais¹

¹imec

Room 16

WM07
EuMC/
EuMIC

Over the last years, GaN has rapidly become a cornerstone technology for high-performance RF power applications, driven by its high breakdown voltage, power density, and efficiency. While GaN-on-SiC remains the benchmark for premium RF performance, GaN-on-Si has emerged as a compelling alternative due to its potential for lower cost, larger wafer sizes, and compatibility with CMOS-centric manufacturing ecosystems. As 5G/6G, satellite communications, and radar systems continue to push for higher frequencies, wider bandwidths, and improved power efficiency, the question arises: Is RF GaN-on-Si mature enough to meet these evolving system demands? This workshop will explore the state of the art in GaN-on-Si RF technology, addressing materials advances, defect and thermal management,

device architectures, circuit demonstrators, and reliability assessment. Recent progress in substrates, buffer engineering, and thermal mitigation approaches will be reviewed, alongside application-driven requirements for FR1, FR3, and mm-Wave/sub-THz systems.

The goal of this workshop is to bring together experts from industry, academia, and research institutes to discuss the remaining challenges and opportunities that will determine whether RF GaN-on-Si can transition from a promising contender to a widespread mainstream technology. Participants will gain insight into the readiness level of GaN-on-Si and the innovation pathways that could accelerate its adoption.

PROGRAMME

The Evolving Landscape of RF GaN-Si Technology

Nadine Collaert¹

¹imec

Market opportunities and competitive Positioning for GaN-on-Si in the RF industry

Ahmad Abbas¹

¹Yole Group

RF GaN substrates

Marianne Germain¹

¹SOITEC

RF GaN-on-Si Beyond the Device: Where System Reality Sets the Limits

Kauser A. Chaudhry¹

¹CSA Catapult

GaN reliability challenges

Enrico Zanoni¹

¹University of Padova

GaN Technology for Telecom Infrastructures – the challenges and opportunities

Rui Hou¹

¹Ericsson

Substrate and Buffer Engineering in RF GaN-on-Si: Implications for RF Losses, Linearity, Efficiency, and Reliability

Farid Medjdoub¹

¹IEMN

Title to be provided

Thomas Roedle¹

¹Infineon

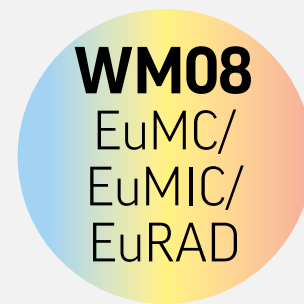
MONDAY 14:10 – 18:30

Reproducible RF & Radar Research with Open-Source Software, Testbeds, and Datasets

Chair: Chang Gao¹

¹Delft University of Technology (TU Delft), The Netherlands

Room 3



This workshop brings together open-source toolchains that make RF and radar research easier to reproduce, compare, and extend. The program spans the full “lab-to-paper-to-reuse” loop across communications and sensing. This workshop will cover: (1) open RFIC design automation via transfer-learning-based passive design migration and scalable, PDK-driven flows; (2) open datasets and end-to-end deep-learning frameworks for wideband PA modeling and neural digital predistortion (DPD) with measurement-validated baselines and pathways toward real-time deployment; (3) reproducible RF measurement and network-analysis workflows using scikit-rf, including practical guidance on software architecture, testing, and community-driven maintenance; and (4) how to build open radar datasets and benchmarks

that are actually useful across labs, including what to capture, how to label, and how to define evaluation protocols that avoid common pitfalls, e.g., domain shift, leakage, sensor mismatch. The goal is to give attendees a practical map of what is available today, what is still missing, and how to contribute back to connect the EuMC, EuMIC, and EuRAD communities around shared open-source practices and reusable research assets.

PROGRAMME

RFIC-TL: Open-Source Transfer Learning for RFIC EM Passive Design Migration

Chenhao Chu¹

¹ETH Zurich, Switzerland

OpenDPD: Open-Source Wideband PA Modeling and Neural DPD

Yizhuo Wu¹

¹TU Delft, The Netherlands

Lessons Learnt for Open Radar Datasets & Benchmarks for Micro-Doppler & Automotive Sensing

Francesco Fioranelli¹

¹TU Delft

Sionna: An Open-Source Library for AI-Native 6G Research

Clement Ruah¹

¹Northeastern University London

THURSDAY 08:30 – 18:30

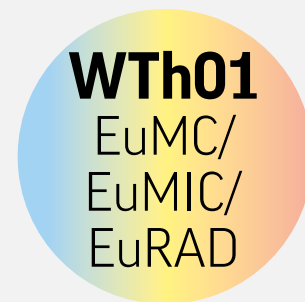
Active Phase Arrays: Bridging Design and Measurement for Young and Industry Professionals

Chair: Marc Dirix¹

Co-Chair: Kamil Yavuz Kapusuz²

¹Emerson&Cuming Anechoic Chambers, Belgium, ²IMEC-Ghent University, Belgium

Room 16



Active phased arrays are a cornerstone technology for emerging communication, and sensing systems operating from mm-wave to sub-THz frequencies. However, the increasing complexity of these systems has widened the gap between design, simulation, realization, and measurement. This workshop aims to bridge that gap by bringing together leading experts from academia, research institutes, and industry to present a coherent, end-to-end perspective on modern active phased array development. The program spans the full lifecycle of phased arrays, from chip-level and interposer design to scalable array architectures, radar modules, and full-duplex integrated sensing and communication systems. Key design challenges such as low-loss D-band realization, reconfigurability, MIMO operation,

direct RF sampling architectures, and thermal management are addressed alongside advanced multi-physics simulation. Equally emphasized are measurement-oriented topics, including near-field power handling estimation, industrial robotics-based antenna measurements, and techniques to mitigate measurement artifacts at mm-wave and sub-THz frequencies. By tightly coupling design methodologies with practical measurement and validation strategies, the workshop highlights how theoretical performance can be reliably translated into real-world hardware. Targeted at young professionals, researchers, and practicing engineers, this workshop provides both foundational insights and industrially relevant perspectives, equipping attendees with a holistic understanding of how to design, analyze,

and measure next-generation active phased array systems with confidence.

PROGRAMME

From Chip to System: A Holistic Approach to 2D Scalable Low-Loss D-Band Active Phased Array Realization

Kamil Yavuz Kapusuz¹

¹IMEC-Ghent University, Belgium

Design, simulation and realization of phased array

Simona Bruni¹

¹IMST, Germany

Industrial Robotics in the Measurement of Active Array Antennas

Stuart Gregson¹

¹Next Phase Measurements, Queen Mary University of London, UK

Advanced radar module development: Innovations and efficiency enhancements for

flexible phased array and MIMO operation

Dirk Nüßler¹, Christian Krebs¹

¹Fraunhofer, Germany

Element-Level Direct RF Sampling and Synthesis for Next-Generation Antenna Arrays: System Benefits, Practical Limitations and Design Tradeoffs

Doganay Dogan¹

¹Aselsan, Türkiye

Reconfigurable active phased array for full duplex integrated sensing and communication.

Eric Klumperink¹

¹University Twente, Netherlands

A Heterogeneous Integration Approach based on RF Si Interposer for mm-Wave/Sub-THz Phased Arrays

Ilker Comart¹

¹IMEC

Fast and Accurate thermal analysis of active phased arrays

Amazir Moknache¹

¹Ansys, France

Estimation of power handling in near-field measurement setups for phased array antennas

Marc Dirix¹

¹Emerson&Cuming Anechoic Chambers, Belgium

FRIDAY 08:30 – 18:30

Radar Research Trends for Mobility: Automotive and Beyond

Chair: David Werbunat¹

Co-Chair: Fabian Roos²

¹Ulm University, ²Robert Bosch GmbH

Room 2

WF01
EuRAD

Automotive radar is currently driving innovation across multiple research domains, ranging from radar networks and radar imaging to AI-based scene understanding. This workshop provides a comprehensive overview of recent advances and emerging research directions in automotive radar and related application fields. One of the central themes of the workshop are radar networks, which are expected to significantly extend the sensing and imaging capabilities of automotive radar systems. The first part of the workshop, therefore, focuses on system design and synchronization concepts for radar networks. Establishing coherency enables bi- and multistatic signal processing, opening the door to novel imaging concepts, expected to enhance resolution and robustness. Beyond theoretical concepts,

the workshop will also address practical challenges related to integrating radar networks into vehicles, including hardware impairments and integration constraints. These new advances in radar system design and signal processing are closely linked to progress in higher-layer algorithms. Modern radar imaging approaches such as automotive SAR improve the capturing of the environment, while AI-based methods such as semantic segmentation enable scene interpretation and target classification. By covering these aspects, the workshop aims to provide a comprehensive overview of the future capabilities of automotive radar systems. Importantly, these developments extend beyond the automotive domain. Emerging applications in areas such as robotics increasingly leverage automotive-grade radar

sensors as key components for physical AI. The workshop therefore highlights not only advances within automotive radar but also their impact on next-generation radar-enabled sensing platforms

PROGRAMME

Synchronization and imaging concepts for automotive radar networks

Julian Aguilar¹, Max Basler¹, Vinzenz Janoudi¹, Christian Waldschmidt¹, David Werbunat²

¹Ulm University, Ulm, Germany, ²Ulm University

Bringing Automotive Radar Networks on the road

Mayeul Jeannin¹, Francesco Laghezza¹

¹Infineon Technologies AG, Neubiberg, Germany

Future Radar System Architectures for ADAS and AD

Maximilian Steiner¹

¹Mercedes-Benz AG, Sindelfingen, Germany

Integrating Cooperative Radar Networks in Real-World: Challenges and Solutions for Optimal Performance

Nicolai Kern¹, Daniel Schindler², Cornelius Kaiser², Tobias Schmid²

¹Robert Bosch GmbH, ²Robert Bosch GmbH, Renningen, Germany

Automotive SAR: Concepts and Applications

Marc Reinecke¹, Theresa Noegel¹, Oliver Sura¹, Martin Vossiek¹

¹Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany

Redefining automotive radar archetype - from detection to dynamic scene perception.

Anum Pirkani¹, Yang Xiao¹, Muge Bekar², Fatemeh Norouzi³, Marina Gashinova¹

¹University of Birmingham, Birmingham, United Kingdom, ²Abdullah Gul University, Turkey, ³University of Birmingham

AI techniques in automotive radar: inspiration for object detection, segmentation, and ego-motion estimation

Alexander Yarovoy¹, Francesco Fioranelli², Mujtaba Hassan¹, Ignacio Roldan¹, Sen Yuan¹, Simin Zhu¹

¹TU Delft, Delft, The Netherlands, ²TU Delft

Integrated sensing and communications in automotive systems

Maria-Sabrina Greco¹

¹University of Pisa

Future Applications of Automotive-Grade 4D Imaging Radar: Robotics, Human Sensing, and PhysicalAI

Jürgen Hasch¹

¹Waveye, Palo Alto, California, United States

FRIDAY 08:30 – 18:30

Distributed/Multistatic radar principles and practice

Chair: Michail Antoniou¹

Co-Chair: Matthew Ritchie²

¹University of Birmingham, ²University College London

Room 3

WF02
EuRAD

This workshop will provide an overview of multistatic and distributed radar systems, from first principles to advanced system and signal processing concepts and practical demonstrations. Its end goal is to advance from fundamentals to an overview of the state of the art in the field, thus offering insights into both theoretical and practical aspects of such systems. The workshop will begin by introducing the essential operating principles of multistatic radar systems and how they can manifest in practice, highlighting their relative advantages over stand-alone, monostatic sensors, but also some of the requirements towards their implementation. Of those, specific emphasis will be placed on the issue of time/phase synchronisation to establish coherence across radar nodes, both in terms of the

requirements and challenges it presents but also in terms of methods to achieve it and evaluate its effectiveness. The focus of the workshop will then shift from an introduction to fundamentals to an overview of selected advanced concepts and systems with practical implementations and experimental results. Those will include an overview of passive radar systems, utilising transmitters of opportunity to provide situational awareness; passive multistatic Synthetic Aperture Radar (SAR) and Ground Moving Target Indication (GMTI) techniques; and distributed radar 2-D and 3-D target imaging. The discussions will feature real-world case studies, including a live demonstration from the University of Birmingham's ADvanced Radar Network (ADRAN), to provide a deeper understanding of the benefits and challenges

these technologies introduce and future directions to address them.

PROGRAMME

Multistatic Sensing – Introduction to Benefits and Challenges

Matthew Ritchie¹, Piers Beasley²

¹University College London, ²BAE Systems

Signal synchronisation in multistatic radar systems

Mohammed Jahangir¹

¹University of Birmingham

Distributed passive radar systems

Krzysztof Kulpa¹

¹Warsaw University of Technology

Multistatic passive SAR systems

Michail Antoniou¹

¹University of Birmingham

Multi-bistatic Interferometric ISAR

Elisa Giusti¹, Selenia Ghio¹

¹CNIT

Distributed ISAR imaging

Fabrizio Santi¹, Debora Pastina¹

¹University of Rome

Multistatic GMTI

Philipp Markiton¹

¹Fraunhofer FHR

FRIDAY 08:30 – 12:50

Remote Sensing for Medical Applications

Chair: Igal Bilik¹

Co-Chair: Julien Le Kercne²

¹Ben Gurion University of the Negev, ²University of Glasgow

Room 15

WF03
EuRAD

This workshop focuses on the intersection of advanced radar signal processing and clinical health management, specifically highlighting the transition from raw electromagnetic data to actionable medical insights. As healthcare trends toward decentralized, continuous monitoring, the challenge lies not only in sensor hardware but also in developing robust algorithms capable of extracting subtle physiological indicators in realistic, “uncontrolled” environments. Some topics include the use of mmWave and Ultra-Wideband (UWB) systems for high-precision vital sign monitoring, such as heart rate variability and respiratory patterns, without the need for skin-contact sensors. We will examine the role of micro-Doppler signatures in human activity recognition for elderly care and fall detection, as well as the

emergence of microwave imaging for internal diagnostics. Beyond hardware, we will discuss state-of-the-art algorithmic frameworks for non-contact vital sign estimation, including advanced denoising and motion-compensation techniques, such as extended noise-immune motion sensing, used to isolate micro-displacements from the chest and carotid pulse. A portion of the session will be dedicated to human activity recognition (HAR), examining how micro-Doppler signatures and range-Doppler maps are processed through deep learning architectures, such as CNNs, LSTMs, and Transformers, for fall detection, gait analysis, and sleep disorder diagnosis. By focusing on the “intelligence” behind the sensor, this workshop provides a roadmap for engineers and data scientists to build privacy-preserving, “invisible”

healthcare systems for the smart homes and clinics of.

PROGRAMME

Radar sensing in assisted living

Julien Le Kercne¹

¹University of Glasgow

UWB-based In-cabin vital signs monitoring

Igal Bilik¹

¹Ben Gurion University of the Negev

TBC

Syed Aziz Shah¹

¹Coventry University

TBC

Glenn Forbes¹

¹Robert Gordon University

TBC

Kevin Chetty¹

¹University College London

TBC

Timothy Constantinou¹

¹UK Dementia Research Institute

TBC

Francesco Fioranelli¹

¹TU Delft

TBC

Sevgi Zubeyde Gurbuz¹

¹NC Sste University

FRIDAY 08:30 – 12:50**Radar Technologies for Space Domain Awareness (SDA)**Chair: Marco Martorella¹Co-Chair: Marina Gashinova²¹University of Birmingham, ²University of Birmingham, Birmingham, United Kingdom**Room 13****WF04**
EuRAD

Space-based infrastructure is expanding at an unprecedented pace, driven by the rapid growth of satellite constellations, increasing platform complexity, multi-mission payloads, and the emergence of disruptive applications such as on-orbit servicing and autonomous space-based facilities. This evolution creates a critical demand for reliable exteroceptive sensing and perception systems capable of operating in complex and contested space environments. As governments, industry, and defence increasingly depend on space-based intelligence and communication assets, there is a pressing need for fast, autonomous, and actionable assessment of high-value space and ground infrastructure. Any disruption to these assets can have severe consequences for national security, economic activity,

and essential services. This workshop will explore emerging concepts, technologies, and applications of radar for Space Domain Awareness (SDA), including—but not limited to:

- Space Situational Awareness (SSA) and Space Domain Awareness (SDA) using ground-based and space-based radar sensors, including in-orbit sensing

- Distributed, cooperative, and multifunctional radar systems

- RF and electromagnetic systems and components for advanced satellite payloads

- Hybrid sensing and AI-enabled classification techniques for enhanced SDA performance

Leading experts from research institutions, industry, and government organizations will present and discuss current challenges, capability gaps, and technological

opportunities. The workshop aims to identify future research directions, highlight state-of-the-art developments, and foster collaboration across sectors to advance radar-enabled SDA capabilities.

PROGRAMME**Passive Radar for SDA**Konrad Jedrzejewski¹¹Warsaw University of Technology**Novel Spaceborne Radars for Surveillance**Marco Maffei¹, Augusto Aubry¹, Massimo Rosamilia¹, Roberto Venturini¹, Antonio De Maio¹¹Thales Alenia Space Italy**High-Resolution Radar Imaging for Space Domain Awareness – Fundamentals and Research Progress at DLR**Simon Anger¹, Florian Bischeltsrieder¹, Matthias Jirousek¹, Fabian Hochberg¹¹German Aerospace Centre (DLR)**Detecting and tracking threats in-space with a low-cost radar**Joe Milbourn¹, Vidhya Sridhar¹¹TTP**In-orbit sub-THz sensing for SDA**Marina Gashinova¹, Marco Martorella², Gruffydd Jones²¹University of Birmingham, Birmingham, United Kingdom, ²University of Birmingham**Ground-based Dual-Band Radar for Space Domain Awareness**Richard Reeves¹¹RAL Space**Reconfigurable Intelligent Surfaces for Space Comms and Sensing**Gabriele Gradoni¹¹University of Surrey

Exhibitor TBC

Technical Workshops

Date: Tuesday 6th October 2026

Time: 08:30 – 18:30

Room: 2

Cost: Free to attend for all
EuMW 2026 registrants

More details to follow.

SUNDAY OVERVIEW



Room	08:30 – 12:50	14:10 – 18:30
1	WS-01 EuMC Additive Manufacturing of Microwave Components and Systems	
2	Tom Brazil Doctoral School of Microwaves	
3		
4	WS-03 EuMC Advances in microwave to THz biomedical sensing and imaging: application to skin and breast cancer	
5		
6	SS-01 EuMC: Challenges and Payoffs in Next-Generation SATCOM: Multi-Band, Multi-Orbit, Multi-Constellation Ground Terminals	WS-11 EuMC Emerging components for sub-terahertz 6G applications
7	SS-02 EuMIC Fundamentals of Microwave PA Design	
8	WS-04 EuMC Antenna Technologies for Non-Terrestrial Networks and SATCOM Terminals	
9	WS-05 EuMC Current Trends in MMW and THz components	
10	WS-06 EuMC Advanced power sensing for frequencies above 140GHz	
11	WS-07 EuMC Advances in cryogenic microwave design and measurement techniques of superconducting and spin qubits	
12	WS-08 EuMC Advances in AI-Driven Microwave Design: From devices up to system-level	
13	WS-09 EuMC/EuMIC Advanced IC Design for mm-Wave and Beyond	
14	WS-10 EuMC/EuMIC Exploring the Innovative Technologies and Circuits Driving the Transition to 6G	
15		
16		
17	WS-02 EuMC Accurate Signals, Linear Amplifiers: Measurement Techniques from RF to Sub-THz	

MONDAY OVERVIEW

Room	8:30 – 10:30	11:10 – 12:50	14:10 – 16:10	16:50 – 18:30
1	WM-01 EuMC On-Wafer Microwave Measurement Techniques for 6G and beyond			
2	SM-01 EuMC Modern SatCom Waveforms and Payload Performance: Linearity, PAPR, Spectrum Compliance , and Advanced Signal Analysis		SM-02 EuMC Harnessing Phase Information to Improve RF Measurements	
3	WM-02 EuMC Open-source Toolchain in RF and Digital Design		WM-08 EuMC/EuMIC/EuRAD Reproducible RF & Radar Research with Open-Source Software, Testbeds, and Datasets	
4	EuMW Student School			
6	WM-03 EuMC Photonic Technologies and Systems for RF Applications			
7		EuMIC01 EuMIC Opening		
8				
9				
10	EuMIC02 From TCAD to PDKs: Advanced Modeling of III-V HEMPTs		EuMIC06 Advanced Circuits Analysis, Simulation, and synthesis	EuMIC10 MMIC Advanced Automated and Open-Source Design Flows
11	EuMIC03 High Frequency Mixed-Signal CMOS Components		EuMW MTT-S Inter-Society Technical Panel Session	EuMIC11 Advanced III/V RF Components
12	EuMIC04 W-Band and D-Band High-Performance Integrated Amplifiers		EuMIC07 Millimeter-Wave Phase Shifters and Mixed-Signal Circuits	EuMIC12 Frequency Multipliers and Oscillators in Si and II-V Based Technologies
13	WM-05 EuMC/EuMIC Embedding Sustainability into Electronics: A Workshop for Circuit Designers on Quantification, Implementation, and Future Technologies		WM-04 EuMC Old Dog New Tricks: Analog Linearization of RF/Microwave Power Amplifiers for Efficient and Wideband Transmitters	
14	EuMIC05 Gallium Nitride Power Amplifiers		EuMIC08 Silicon-Based Circuits and Systems for Emergin Applications	
15	WM-06 EuMC/EuMIC Enabling Ultra-Low Noise RF Systems: Technology, Materials and Metrology			
16	WM-07 EuMC/EuMIC Is RF GaN-on-Si ready for prime time?			
17			EuMIC09 GaN Devices and Technoloigies	EuMIC13 CMOS Devices and Technologies

Room	Evening programme
Galyons Royal Docks	EuMIC Get-Together 19:00 – 22:00

TUESDAY OVERVIEW

8:30 – 10:30		11:10 – 12:50		14:10 – 16:10		16:50 – 18:30	
1	EuMC01 Novel Guided-Wave Structures for Microwave Applications			EuMC04 Advanced Non-Reciprocal Technologies for RF and Micro-wave Systems		EuMC08 3D Passive Components and Non-Planar Microwave Structures	
2	Exhibitor Workshop			Exhibitor Workshop			
3	Exhibitor Workshop			Exhibitor Workshop			
4	EuMC02 Millimeter-Wave Circuits and Modules			EuMC05 Terahertz Antennas		EuMC09 Millimeter-Wave and Terahertz Devices	
6	EuMC03 Sustainable Microwave and Communication Technologies			EuMC06 Advances in Quantum Technologies and Educational Initiatives		EuMW MTT-S Inter-Society Technical Panel Session	
7		EuMW01 EuMW/EuMC Opening					
8							
9							
10							
11							
12							
13	EuMIC14 Silicon Based Power Amplifiers		EuMIC16 Advanced Techniques for Linear PA Design		EuMC07 AI, 3D, Miniaturized, and Quantum Technologies for Microwave Filters		EuMC10 Non-Planar Filters
14	Automotive Forum						
15			Women in Micro-waves (WiM) 1 Panel session 13:00 – 13:30				
16					EuMC/EuMIC01 Special Session on Sustainability in Microwave Systems - Materials, carbon Footprint, and Social Impact		
17	EuMIC15 Integrated Millimeter-Wave Transmitters and Receivers		EuMIC17 Millimeter-Wave Mixers and Power Detectors		EuMIC18 Recent Advances in III/V Amplifiers		EuMC11 Modeling of Propagation Structures and Transitions
Exhibition Hall		Poster01: EuMIC		Poster01: EuMC			
Operations Office		Tom Brazil Fellowship Award Finalists Pitching					
External			Women in Microwaves (WiM) 2: Royal Observatory Greenwich 13:30 – 18:30				

Room	Evening programme
Bokan 39	Automotive Forum Dinner 19:00 – 22:00
London Excel	EuMW Welcome Reception 18:30 – 21:00

EuMC

EuMIC

EuRAD

Students

EuMW

Exhibitors

WEDNESDAY OVERVIEW

							
Room	8:30 – 10:30		11:10 – 12:50		14:10 – 16:10		16:50 – 18:30
1	EuMC12 Active Integrated Phased Arrays and Tx/Rx Module Technologies		EuMC20 Phase Array Topologies, Ele- ments, and Wide-Angle Beam Scanning		EuMC27 Smart Antennas, SatCom Apertures, and Array Charac- terisation		EuRAD02 Enabling Technolgoies for Novel Sensing Systems
2	Exhibitor Workshop				Exhibitor Workshop		
3	Exhibitor Workshop				Exhibitor Workshop		
4	EuMC13 Millimeter-Wave and THz Communication		EuMC21 Millimeter-Wave and THz Photonics Techniques		EuMC28 Innovative Additive Fabrica- tion Techniques		EuMC34 RF Exposure Modeling and Characterization of Biological Materials
6	EuMC14 Components Based on Emerg- ing Materials and Processes		EuMC22 Biomedical Imaging and radar Sensing		EUMC29 Special Session on Green Energy Transmitting and Harvesting RF/Millimetre- wave/Microwave Devices and Internet of Things Sensors		EuRAD03 Advanced Automotive Radar Signal Processing
7	EuMC15 Integrated CMOS and GaN Power Amplifiers		EuMC23 Advanced Power Amplifier Design		EuMC30 Digital Linearization Techniques		EuMC35 Load-Modulated Power Amplifiers
8	EuMW02 EuMC/APMC Special Session on Microwave Technologies for Quantum Computers and Quantum Sensing in Asia-Pacific Region	EuRAD01 EuRAD Opening					
9							
10							
11	EuMC16 EuMA-EurAAP Special session on Co-Design of Electronics and Antennas for Active Array Antennas						
12	Defence Forum						
13	EuMC17 Sustainable and Ambient Energy Harvesting for Wire- less Power Transfer		EuMC24 Next-Geenration Backscatter Tags and Harmonic Radar Systems		EuMC31 Focused Session on Advanced Rectifiers and Rectennas for Microwave Power Transmis- sion		EuRAD04 AI-Based Enhancement of Radar Data
14	EuMC18 Advanced VNA Measurement Techniques		EuMC25 Advanced On-Wafer Calibra- tion and Characterization Techniques for mmWave and Sub-THz Technologies		EuMC32 Techniques for Material Characterization From Waveguide Alignment to Permittivity Measurement		EuMC36 Advanced Characterization of RF Devices and Systems
15			Career Platform				
17	EuMC19 Advanced Filter Design AI-Driven, ML-Enhanced & Space-Mapped		EuMC26 Advanced Modeling Methods for Active and Integrated Circuits		EuMC33 Recent Advances in Electromagnetic Theory and Computational Numerical Techniques		EuMC37 Antenna/Metasurfaces Design and Imaging Techniques
Exhibition Hall		Poster02: EuMC			Poster03: EuMC		
Mezzanine Foyer					Sustainability Demo Competition		

Room	Evening programme
Sundown Bar, Sunborn Yacht	Defence Forum Dinner 18:30 – 22:00
London Museum Docklands	EuMW Gala Event 19:00 – 23:00

EuMC

EuMIC

EuRAD

Students

EuMW

Exhibitors

THURSDAY OVERVIEW

										
Room	8:30 – 10:30		11:10 – 12:50		14:10 – 16:10		16:50 – 18:30			
1	EuMC38 Metasurface and Leaky-Wave Antennas		EuMC44 Antennas for Next-Generation Millimeter-Wave Communication and Sensing		EuRAD12 Joint Sensing and Communications		EuRAD15 Distributed Radar Synchronisation and Sensing			
2	Exhibitor Workshop				Exhibitor Workshop					
3	Exhibitor Workshop				Exhibitor Workshop					
4	EuRAD05 Advanced Automotive Radar Signal Processing		EuRAD08 Radar-Based Mapping, Localisation, and Sensing for Autonomous Platforms		EuRAD13 Medical and Health Applications		EuRAD16 Industrial and Civilian Applications			
6	EuMC39 Design and Characterization Techniques		Sustainability Panel		EuMC48 Channel Characterization and OTA Testing					
7	EuMC40 LNAs, Phase Shifters, and Frequency Multipliers		EuMC45 Advances in Oscillators and Phase-Locked Loops		EuMC49 Front-End and Transceiver Modules, System-In-Package Technologies					
8	EuRAD06 Radar System Simulators		EuRAD09 Direction of Arrival Estimators				EuMW03 EuMW/EuMC Closing			
9	EuMC41 Reconfigurable and MIMO Antennas									
10										
11	Space Forum									
12	EuRAD07 AI for Cognitive Radar, Waveform Intelligence & EW		EuRAD10 AI for Detection, tracking and Multi-Modal Perception		EuRAD14 Radar Beamforming and Frontend Technologies		EuRAD17 MIMO Radars: Array Design, target Detection, DOA Estimation			
13	EuMC42 Reconfigurable Intelligent Surfaces		EuMC46 Metasurfaces and Metamaterials		EuMC50 Periodic and Quasi-Periodic Structures		EuRAD18 AI for Short Range radar Applications			
14	6G/Next-G Forum									
15			EuRAD11 Special Session EMSIG – the UK Radar Society and UK Radar Ecosystem		STh-01 EuRAD Brief INCOMPLETE History of Radar					
16	WTh-01 EuMC/EuMIC/EuRAD Active Phase Arrays: Bridging Design and Measurement for Young and Industry Professionals									
17	EuMC43 Advanced Millimeter-Wave and Sub-THz Sensing, Imaging, and Communication systems		EuMC47 Components for Microwave and THz Sensing		EuMC/EuRAD01 Special Session UKRI/ EPSRC Research Projects in Microwave, Millimetre MWave and THz Research					
Exhibition Hall		Poster01: EuRAD								

Room	Evening programme
Bonnane Restaurant	6G Forum Dinner 19:00 – 22:00
Fremantle Bar & Kitchen	Radar Interchange 19:00 – 22:00

EuMC

EuMIC

EuRAD

Students

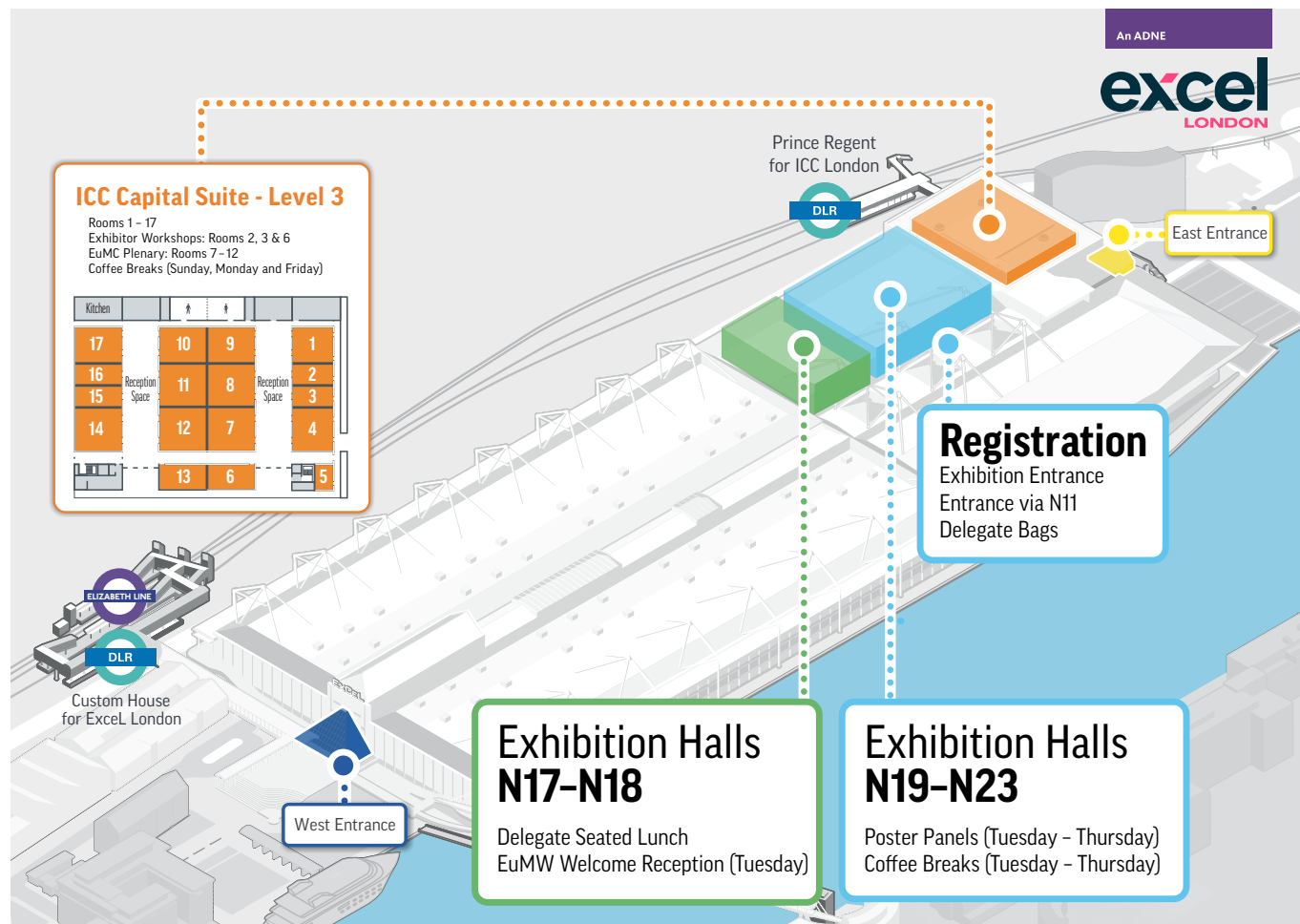
EuMW

Exhibitors

FRIDAY OVERVIEW

Room		8:30 – 10:30		11:10 – 12:50		13:50 –15:50		16:20 – 18:00	
1	EuRAD19 Defence and Multistatic Radar Imaging			EuRAD25 Space Domain and Space Situational Awareness					
2	WF-01 EuRAD Radar Research Trends for Mobility: Automotive and Beyond								
3	WF-02 EuRAD Distributed/Multistatic radar principles and practice								
4	EuRAD20 Applied Signal Processing and Systems			EuRAD26 Geosceince, Weather, and Environmental Remote Sensing					
6	EuRAD21 Applications of High-Resolution SAR Systems			EuRAD27 Activity, Behaviour and Infrastructure Monitoring					
7						EuRAD29 EuRAD Closing			
8									
9									
10	SF-01 EuRAD Integrated Sensing and Communications: Fundamentals, State-of-the-Art and the Road Ahead								
11	EuRAD22 Special Session EMERSON Student's Challenge								
12	EuRAD23 Cognitive Techniques, Sensor Tasking and Machine Learning			EuRAD28 Detection and Tracking					
13	WF-04 EuRAD Radar Technologies for Space Domain Awareness (SDA)								
14	EuRAD24 SAR Imaging and Moving Target Refocusing								
15	WF-03 EuRAD Remote Sensing for Medical Applications								
16	SF-02 EuRAD Digital Twins for Radar Systems: Modeling, Simulation, and AI Applications								
17	SF-03 EuRAD Beyond Vision: 4D Radar and Sensor Fusion AI for Robust Perception								

Venue Overview



Exhibitor List (Stand Number)

4a manufacturing GmbH (L260) · 50.com Inc. (L154)

A A-INFO INC (K84) · A1 Microwave (L276) · Aaronia AG (A10) · ABS Technics BV (L118) · ACST GmbH (L182) · Active Technologies SRL (L54) · Advanced Technical Ceramics (K104) · AGC Multi Material Europe SASU (J45) · Alaris - The RF Technology Group (L246) · ALPHA-RLH (L336) · Alloy Microwave (J40) · Alter Technology Tüv Nord S.A.U. (L300) · Altum RF (L80) · AMBASEN (L240) · American Standard Circuits Inc. (L102) · Amphenol Microwave (D60) · Ampwave Defense LLC (L270) · Amtery Corporation (L196) · Analog Devices LTD (B20B) · Anhui V-STAR Technology Co., Ltd (L248A) · Anritsu EMEA GmbH (K38) · Ansys Inc. (J30) · Antae (L106, L122, L170) · Antares Defence Systems Ltd (L272) · AntenneX BV (J10) · AO Technologies (L94) · Apollo Microwaves (L284A) · Artech House (L116) · Aspacomp Group (L86) · AT Microwave (K122) · ATEK MIKRODALGA AS (L108) · Aumiwalker Technology CO.,LTD (L268) · Auriga PIV-Tech (F25) · AVT GROUP (L60)

B Becker Nachrichtentechnik GmbH (D75B) · Beijing Xibao Electronic Technology Co. Ltd. (L152) · Bits&Chips (Pub Corner 1)

C Cadence Design Systems Ltd (D25) · CADFEM Germany GmbH (J30) · Calibre RF & Microwave Consultancy Ltd (L202) · Castle Microwave Ltd (F20) · CEA Leti (L286) · CEMWorks (L248) · Changzhou Wujin Fengshi Connectors Co., LTD (K114) · Chengdu Bearing New Machinery Equipment Co. Ltd. (L332) · Chengdu Filter Technology Co., Ltd (L242) · Chengdu Hongke Electronic Technology Co., Ltd (K70) · Chengdu Huaxing Huiming Technology Co., Ltd (L200) · Chengdu Lixing Technology Co., Ltd (L210A) · Chengdu Precision Rong Creation Technology Co.Ltd (L48) · Chengdu RF Miso Inc. (L18) · Chengdu Ruida lot Technology Co.,Ltd (L124) · Chengdu Sheenst Technology Co.,Ltd (L174) · Chengdu Simon Elektronika Teknologio Co. Ltd. (K128) · Chengdu Skylink Intellitech Co. Ltd. (L204) · Chengdu Yuexiang Technology Co. Ltd. (L302) · Cicor Microtech AG (K24) · Coilcraft (K54) · Copper Mountain Technologies (K50) · CPE Italia S.P.A. (L244) · CPI TMD Technologies Ltd (K120)

D Dalian Dalicap Technology Co. Ltd (L138) · DANDAN (L172) · Danyang Teruilai Electronics Co. Ltd. (K10) · Dassault Systèmes UK Ltd (A40C) · Diconex Deti (K88) · Die Devices (L252) · DiTom Microwave Inc. (L326) · DMTL (B20) · Dongyi Microwave (L130) · dSPACE Group SE & Co. KG. (C10)

E E&C Anechoic Chambers NV (K140) · EECL (K110) · Electronic Specifier Ltd (Pub Corner 2) · Electronics World (Pub Corner 1) · Electro Rent (A20A) · Elvia Electronics (K124) · EMITE (L106) · Equipements Scientifiques (ES (D45) · Eravant (G25) · ERZIA (D45) · Etrontimes Technology (L14) · EurAAP (L310) · European Microwave Association (EuMA) (L176) · European Microwave Week 2027 (L12) · Everbeing International Corp. (L126) · everything RF (Pub Corner 1)

F Faraday Defense Corporation (L36) · Farran Technology Ltd (K98) · Filtronic (D55) · Flann Microwave Ltd. (G20) · Focus Microwaves Inc. (F25) · FormFactor Inc. (D10) · Fraunhofer FHR (B35) · Fraunhofer Heinrich-Hertz-Institut (D75C) · Fraunhofer IAF (B35) · Fraunhofer Inst Reliability Microintegration IZM (L290) · Frequencies Idea Technology Co. Ltd. (L30) · Fujipoly Europe B.V. (L66)

G Gapwaves (K66) · Genmix Technology Co., Ltd (L230) · Gigatronix Ltd (K68) · Glenair UK Limited (B30B) · Gold sky Microwave (L298) · Golden Devices GmbH (L104) · Golden Loch Inc. Co. Ltd. (L266) · Greenray Industries, Inc (K104) · Greenray Industries, Inc (K104) · Guangdong Kansai Technology Ltd. (L308) · Guangdong Kansaitom Technology Ltd (L308)

H HAROGIC Technologies Co., Ltd (H20) · Harp Technologies Oy (L228) · Hebei Far-East Communication System Engineering Co (L212) · hf-Praxis (Pub Corner 1) · HHV Advanced Technologies Pvt Ltd. (L280) · HI MICROWAVE (L10) · High Frequency Electronics (Pub Corner 2) · HJEMC (L88) · HTD Huayang Technology (L222) · Huang Liang Technologies Co. Ltd. (L304A) · Huber + Suhner AG (K34) · HYMAG'IN (L264) · HYTEM (L72) · HzBeat (K134)

I IEEE Microwave Magazine (Pub Corner 2) · IEEE MTT-S/IMS2027 (K90) · IHI Hauzer Techno Coating B.V. (L238) · IHP GmbH (K42) · IHP Solutions GmbH (K42) · IMST GmbH (K76) · Innertron Inc. (L218) · iNPACK (L38) · iNRCORE (B25A) · Inspower Co. Ltd. (L180) · Integra Technologies Inc. (L22) · Integrated Circuit Research Institute (L62) · Interlligent UK Ltd (L322) · Interwiser (L70)

J Johanson Technology (L136) · JQL Technologies Corp. (K32) · JSD PCB (L82) · JunCoax RF Technologies Co. Ltd. (K80) · Junkosha Inc. (D05) · JYH FUTURE (L140)

K KEYCOM Corporation (K100) · Keysight (A20) · Knowledge Resources GmbH (L178) · Knowles (D50) · KOSTECSYS CO., LTD. (L224) · KVG Quartz Crystal Technology GmbH (L74) · KYOCERA AVX Components Ltd (K46)

L LA Techniques Ltd (K82) · Ladybug Technologies (L106) · Lanjian Electronics (L292) · LeapWave Technologies (L334) · Link Microtek Ltd (D80) · Low Noise Factory (L318) · LPKF Laser & Electronics SE (K62) · Luowave SDR (L290A)

M MACOM Technology Solutions (B45) · Marki Microwave, LLC. (B15) · MathWorks (K74) · Maury Microwave (B30) · MegiQ (L106) · Melcom Electronics Ltd (L134) · Mesuro Limited (F25) · Mlcable Inc. (K12) · Mician GmbH (K58) · Microchip Technology Ireland Ltd. (D85A) · MicroPhoton Technology (L24) · Microsanj (D20) · Microwave Amps Ltd. (K118) · Microwave Factory Co. Ltd. (H25) · Microwave Journal (Pub Corner 2) · Microwave Journal/ Signal Integrity Journal (K102) · Microwave Road (K142) · Microwave Vision Group (MVG) (L216) · Microwavefilters & TVC Srl (K112) · Microwaves & RF (Pub Corner 1) · Miczen Technologies Co., Ltd (L306A) · Milexia (D30) · Miller MMIC Inc. (A50B) · Mini-Circuits (A40A) · Mintres BV (L304) · MPG - Microwave Products Group (K48) · MPI Corporation (C25) · Murata Electronics Europe B.V. (B40B)

N National Instruments (A40B) · Netcom Inc. (L298A) · Northern Waves AB (L112) · NSI-MI Technologies (K132) · NSTIC GaN (L258)

O Octric Semiconductors Ltd (L214) · OPHIR RF Inc (L198) · Optiprint AG (L56) · Optispac, Inc. (L330)

P Pasquali Microwave Systems SRL (K30) · Passive Plus Inc. (B25A) · Pendulum Instruments Sp. zo.o. (L282) · Pico Technology (L78) · Plexsa Manufacturing Hungary Kft. (K52) · PM Industries Inc. (L110) · POAM Electronics Ltd (L38) · Presidio Components (L28) · Primcera Electronics Co., Limited (L208) · Procurement Pro (Pub Corner 2)

Q Qotana Technologies Co. Ltd. (B50B) · QP Technologies (L46) · QRT Inc. (K136) · Qualwave Inc. (L186) · Quantic Electronics (K60) · QuSine research project (D75C) · QWED Sp. z.o.o (L194)

R Radiall (K28) · Radio Design Limited (L328) · RapidRF GmbH (B50A) · RCD Components (B25A) · Reliasat Limited (D85B) · RF Com Limited (B25B) · RF Globalnet (Pub Corner 2) · RF Lambda Europe GmbH (A50A) · RF Morecom Corea (L44) · RF ONE (L168) · RF SPIN S.R.O. (B25C) · RFHIC Corporation (B40A) · RFlight Communication Electronic Co. Ltd (K130) · RFMW UK LTD (B30A) · Richardson RFPD (D70) · Rigol Technologies EU GmbH (D75A) · Rogers BV/ Rogers Corporation (L314) · Rohde & Schwarz (B10) · Rosenberger Hochfrequenztechnik GmbH & Co. KG (F10) · RUPPtronik GmbH (K22) · RW MMIC (L142)

S S2P Smart Plastic Products (L284) · Samtec (D40) · SARAS Technology Ltd. (K94) · Scientific Microwave Corp. (K20) · SERMA Group (L68) · Shaanxi Shinhom Enterprise Co. Ltd. (L158) · Shanghai Hexu Microwave Technology Co.,Ltd (B25D) · Shanghai Huaxiang (L246A) · Shanghai Xinxun Microwave Technology Co. Ltd. (L84) · Shenzhen Staradio Tech Company Limited (L288A) · Shenzhen Xinhongxing Technology Co., Ltd (L296A) · Siglent Technologies Germany GmbH (G35) · Signal Solutions Nordic OY (K116) · Slipstream Engineering Design Ltd. (L288) · SLK Technologies Inc. (L32) · Smiths Interconnect (G10) · SomeFly Interconnection USA Ltd. (L220) · SomeFly Technologies Co. Ltd (L220) · Southwest Microwave (L98) · Spectrum Control (H15) · Spectrum Elektrotechnik GmbH (K78) · Spinner GmbH (H10) · SSM Susumu Deutschland GmbH (K92) · STACEM (L100) · Sumitomo Electric Device Innovations Inc (D35) · Sumitomo Electric Europe Ltd. (D35) · SuperApex LLC (L286A) · Suzhou Eoulu System Integration Co. Ltd. (L256) · Suzhou Inston Technology Co.,Ltd (L274) · Suzhou Lair Microwave Inc. (L40) · Suzhou Semi-Mile Test and Control Co.,Ltd (L132) · Swissto12 (L50) · Synopsis Corporation Group (J25)

T Tabor Electronics (B20A) · TagoreTech Inc. (G30) · Talent Microwave Inc. (K106) · Talent Microwave Inc. (L192) · Tecdia Inc. (L236) · TECNISCO Ltd (L16) · Tecnomec S.R.L. (L184) · Tektronix International Sales GmbH (K96) · Teledyne e2v Semiconductors (L210) · Teledyne Microwave UK (L210) · Teledyne Reynolds UK (L210) · Telonic Berkeley Inc (K20) · Temwell Group (L156) · TIAN-FUCHIP (L296) · Tianqiong Electronics (L150) · Times Microwave Systems (D60) · TMY Technology Inc. (L52) · TNO (B35) · Tong Zhi Li Trading Co., Ltd (L312) · TOTOKU INC. (L306) · Transcom Inc. (L304A) · Transline Technology Inc. (K20) · Trigiant Technology (L58) · TRUMPF Huttinger GmbH + Co. KG (K108) · TWM Technology Ltd (L278)

U Ulbrich of Austria (L144) · UNI-Trend Technology EU GmbH (K36) · United Monolithic Semiconductors (UMS) (C20) · University of Bristol (L232) · Uziwave (L90)

V Varioprint AG (K64) · Ventec International Group (Europe) (L206) · Viper RF Limited (L250) · Virginia Diodes Inc. (D15) · Vishay Electronic GmbH (K72) · Vomic Technology Co., Ltd. (L26)

W Watech Electronics Co., Ltd. (K56) · Wave Tech Co., Ltd (L262) · WAVEPIA Co. Ltd (K138) · WavePro, a Garlock Brand (K86) · WCI CO., LTD (D80) · Weasic (L106) · WIN Semiconductors Corp. (C15)

X Xi'an Jingshi Electronics Co., Ltd (L188) · Xi'an Longtrox RF Scien-Tech Co. Ltd. (L92) · Xinqiyuan Technology Co. Ltd. (L148) · Xtalong Electronics (L76) · XtalTQ Technologies Co. Ltd (L120)

Y Y-TECH Co. Ltd. (J35)

Z ZDECL (L166) · Zhejiang Jiakang Electronics Co. Ltd. (L146) · Zhixin Leitong Microsystem (L128) · ZTS Technologies Co., Ltd (L164)