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The European Microwave Week 2026 organisers would like to thank the following companies for their help and valued support throughout this year's event.

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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 ZOGHOB 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

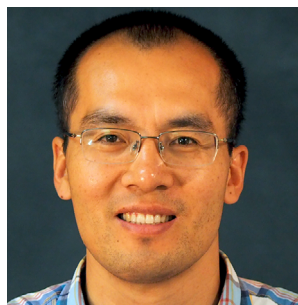
appear in a special issue of the International Journal of Microwave and Wireless Technologies.

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
Filtronc, 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



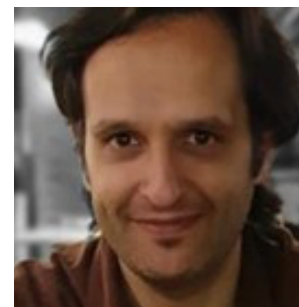
IAN BURNAGE
EuMC Co-Chair

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 Clarke - 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

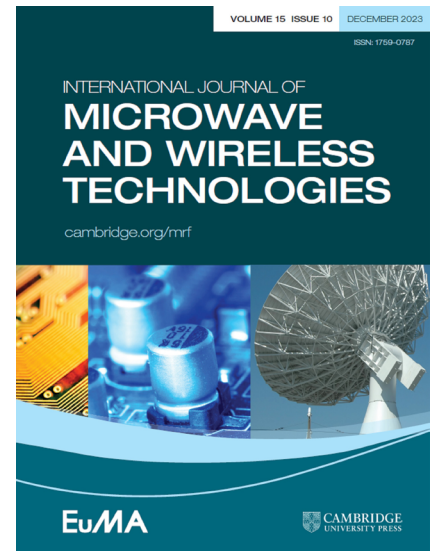
International Journal of Microwave and Wireless Technologies: EuMW2026 Special Issue

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.

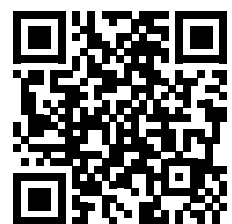
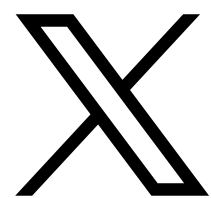
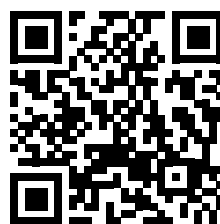
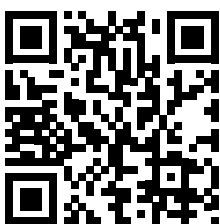


JIAFENG ZHOU AND
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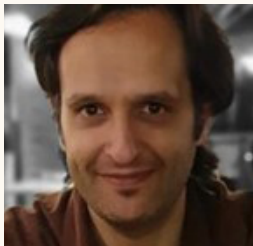
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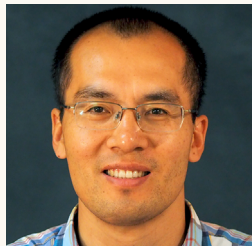
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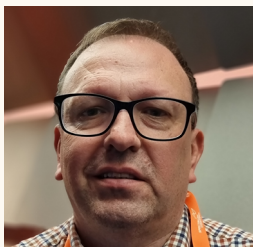
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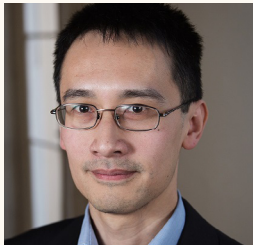
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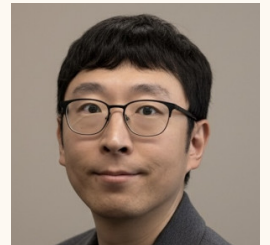
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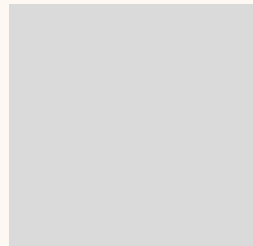
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CHRIS GILLIAM

Social Media Co-Chair
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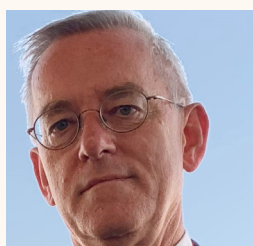
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A 58 Gb/s D-band NLOS link enabled by active RIS

Sponsors - IMA e.V.

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Fast Determination of the Monostatic Radar Channel in the Near-Field of
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IHCT, University of Wuppertal, German

Title

A J-Band Low-Noise Amplifier with 100+ GHz 3-dB Bandwidth in a 130-nm
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R. Ghasemi, T. Koegel, P. Fenske, D. Gunders-Hunt, M. Vossiek
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Institute of Microwaves and Photonics (LHFT),
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M. Pircher, M. Jäger, U. Johannsen

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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

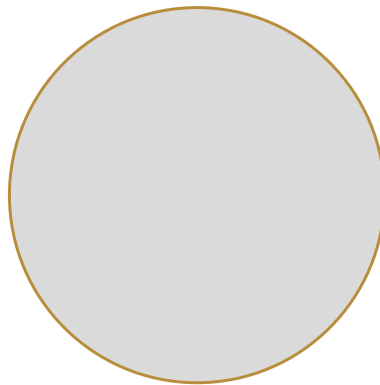
Resistive D-Band Mixers with Monolithic Integrated Broadband IF Balun and LO Amplifier

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



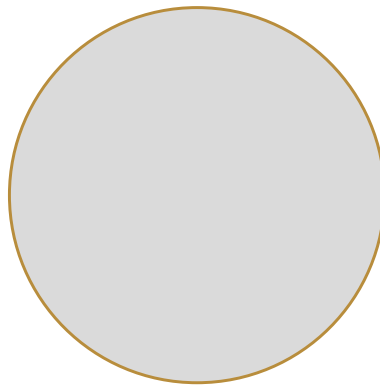
2026'S RECIPIENT: TO BE ANNOUNCED

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”.

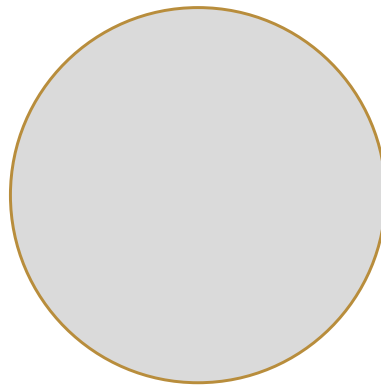


2026 RECIPIENT: TO BE ANNOUNCED

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

EuMA Distinguish Service Award

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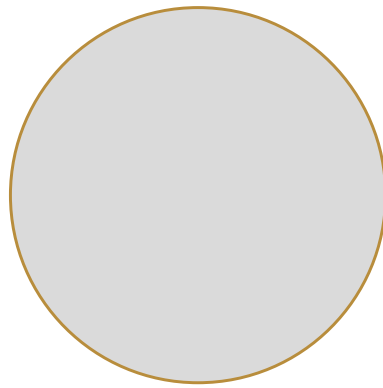


2026 RECIPIENT: TO BE ANNOUNCED

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

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THE OUTSTANDING CAREER AWARD WAS ESTABLISHED IN 2008, TO RECOGNIZE AN INDIVIDUAL “WHOSE CAREER HAS EXEMPLIFIED OUTSTANDING ACHIEVEMENTS IN THE FIELD OF MICROWAVES”



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.



EuMIC 2025 - Tom Brazil Fellowship Award

- First prize: "A Sustainable Path to mm-Wave Systems Through Direct Hybrid Bonding", (Mohammad Alsukour)
- First prize: "Deep Integration of Wireless Multifunctionality: A Vision for Future-Ready Systems", (Thomas Micallef)
- Congratulations to the authors!

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

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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

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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 Hördemann, 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 Kallfass, "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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T Alexandru Takacs · Hara Madhav Talasila · Raja Usman Tariq · Jean-Guy Tartarin · Noriaka Tawa · Manos M. Tentzeris · Guilherme 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.

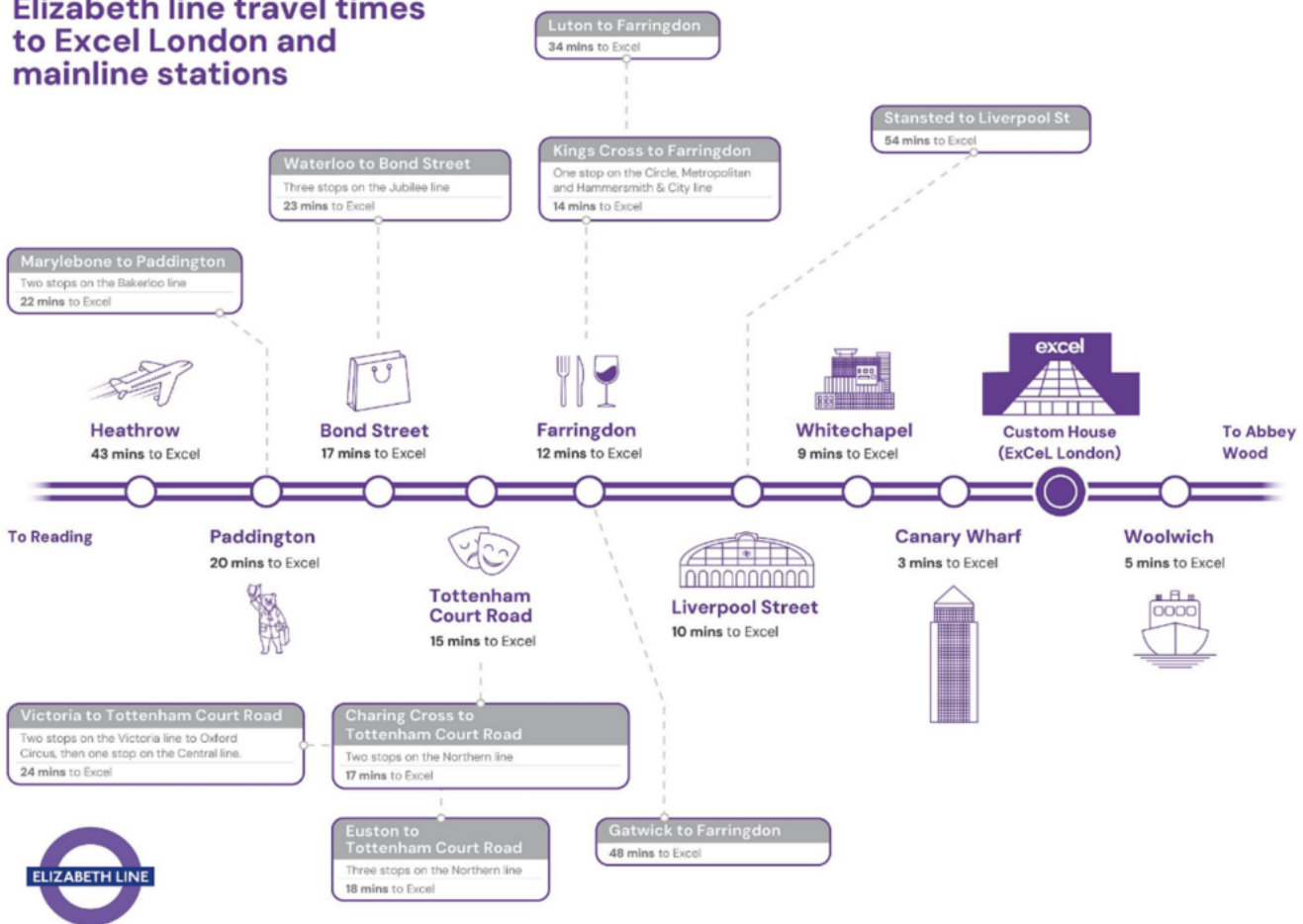


BY TRAIN

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, Design and Radar 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 (TBC)

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

EARN

4500 €

KICK-START YOUR MICROWAVE CAREER!

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.

EuMW Delegates Lunch

Monday 5th –
Friday 9th October 2026
12:50 – 14:10

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.

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

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.



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.



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 are also offered if you are a Student/Senior (Full-time students 30 years or younger and Seniors 65 or older 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

Presenter: Keving Chetty & Lai Bun Loc, University College London, UK, Speaker TBC, Analogue Devices (ADI).

The European Microwave Week features the 15th Tom Brazil Doctoral School of Microwaves. 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!

Programme

08:30 – 10:30	Hands-on Workshop 1: Short range 60 GHz radar development Part1
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10:30 – 11:10	Coffee Break
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11:10 – 12:50	Hands-on Workshop 2: Short range 60 GHz radar development Part2
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12:50 – 14:10	Lunch Break
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14:10 – 16:10	Hands-on Workshop 3: Phased Arrays and Beamforming techniques Part1
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16:10 – 16:50	Coffee Break
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16:50 – 18:20	Hands-on Workshop 4: Phased Arrays and Beamforming techniques Part2
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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 Introduction: High Efficiency PA Principles and single-ended PA design
10:30

10:30 Coffee Break
11:10

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

12:50 Lunch Break
14:10

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

16:10 Coffee Break
16:50

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

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







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: Bôkan, 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	Heimdall: A New Paradigm for Automotive Radar PTI Fahimeh Rafieinia, Kasra Haghghi, UniqueSec, Sweden
12:25 - 12:50	Towards Harmonised Methods for Automotive Radar Interference Testing: Insights from the MeTARI Project Emil Nilsson, Radar Reticence/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, Robert Bosch GmbH, 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

Title TBC
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 Kowalewski, 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) gmbH, 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 Hubrechsen, CEO Antennex (The Netherlands), Prof. Amid Mehta, CEO AdaptiveAntennas (Wales), Fabian Michler, CTO Wolf Radar (Germany), Ana Peláez Pérez, CEO Maxwell Applied Technologies (Spain), Daniel Escadas, CEO RFisense (Portugal)

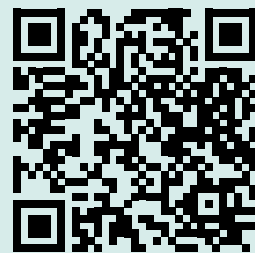
The exhibitor sneak-preview will feature talks on modern spectrum management, wideband direct sampling systems and RF-systems for small platforms.

- 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 gmbH 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 Hubrechen
14:30 14:45	Resilient GNSS: Low-Cost CRPA Solutions for Contested EM Environments Adaptive Antennas Amid 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 - 15:30	RF-Sentinel: Mobile Detection of FPV Drone Threats RFisense Daniel Escadas
15:30 - 15:50	Modern Spectrum Management and Direction-Finding Technologies Keysight Technologies Rolland Zhang
15:50 - 16:10	RF Front Ends in Wideband Direct Sampling Systems Spectrum Control Jeff Miner
16:10 - 16:40	Coffee Break
16:40 - 17:00	Future European Defense Systems – RF Technology for Smaller, More Capable Platforms Qorvo Dean White
17:00 - 18:00	Panel: The Drone Age – How Big is the Role of Microwaves?

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 Maasstad 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: TBC

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.



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	Testing of 6G Hardware
12:40	Keysight Technologies Arturo Timoner
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.

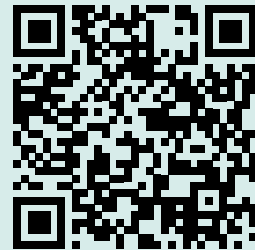
The forum will focus on innovations in satellite communications and non-terrestrial networks (NTN), advanced payload technologies, software-defined and reconfigurable satellite systems, Earth observation, space situational awareness, and upcoming lunar and deep-space missions.

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)



Space Forum

Programme

Session 1

09:00 Presentation TBC
09:30

09:30 Presentation TBC
10:00

10:00 Presentation TBC
10:30

10:30 Coffee Break
11:10

Session 2

11:10 Presentation TBC
11:40

11:40 Presentation TBC
12:10

12:10 Presentation TBC
12:40

MONDAY 08:30 - 10:30

ROOM

Room 10

EuMIC02

From TCAD to PDKs:
Advanced Modeling of III-V
HEMTs

Chair: Teresa M. Martin-Guerrero¹

Co-Chair: Antonio Raffo²

¹Universidad de Málaga, ²University of Ferrara

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

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

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 Schauerte³, Armulf Leuther³

¹Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics

09:30
-
09:50

EuMIC02-4

Experimental Characterization up to 150 GHz and Scaling Effects of 0.1- μ m GaAs Devices for W-Band Power Applications

Antonio Mordà¹, Valeria Vadalà¹, Gianni Bosi¹, Ciro Esposito¹, Federico D'Aniello², Giovanni Crupi²

¹Università degli Studi di Milano-Bicocca, ²Università di Messina

09:50
-
10:10

EuMIC02-5

Enhancing PDK Accuracy Through Advanced Modeling of 0.15- μ m GaN Transistors

Mario Castorio¹, Gianni Bosi¹, Valeria Vadalà², Antonio Nanni¹, Luca Falcetta¹, Alessio Pantellini¹, Antonio Raffo¹, Giorgio Vannini¹

¹Leonardo S.p.A., ²University of Milano-Bicocca, ³University of Ferrara

10:10
-
10:30

EuMIC02-6

High Linearity E-Band SPDT Switch with 1.6 dB Insertion Loss in 16 nm FinFET CMOS Technology

Roei Ben-Yishay¹

¹Mobileye, Israel

Room 11

EuMIC03

High-Frequency Mixed-Signal CMOS Components

Chair: Aleks Dyskin¹

Co-Chair: Vadim Issakov²

¹Nvidia, ²Technical University Braunschweig

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

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

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

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

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, ⁴Southwest University, P.R.China

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

Room 12

EuMIC04

W-Band and D-Band High-Performance Integrated Amplifiers

Chair: Vojkan Vidojkovic¹

Co-Chair: Tommaso Cappello²

¹Eindhoven University of Technology, ²Villanova University, USA

EuMIC04-1

250-nm InP/GaAsSb DHBT Technology for W- and D-Band Power Amplifiers

Sara Hamzeloui¹, Mojtaba Ebrahimi Maroufi¹, Andrea Cercaci¹, Filippo Ciabattini¹, Akshay M Arabhavi¹, Olivier J. S. Ostinelli¹, Colombo R. Bolognesi¹

¹ETH Zurich, Switzerland

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

EuMIC04-3

A D-band High-Power and High-Gain Stacked Power Amplifier with Modified Slotline-Based Power Combiner in 22-nm FD-SOI

Huibao Wu¹, Xingcun Li¹, Shunhua Hu¹, Quanjin Liao¹, Wenhua Chen¹

¹Tsinghua University

EuMIC04-4

A D-Band SiGe Power Amplifier with a Coupled Line-Based Four-Way Power Combiner

Ibrahim Kagan Aksoyok¹, Henning Poensgen², Ahmet Çağrı Ulusoy¹

¹Texas Instruments, USA, ²Karlsruhe Institute of Technology

EuMIC04-5

A 130-165 GHz All-Common-Base Variable-Gain Amplifier with Constant OP1dB in SiGe BiCMOS

Guglielmo De Filippi¹, Lorenzo Pioletto¹, Francesco Svelto², Andrea Mazzanti²

¹Fondazione Chips-IT, ²Università di Pavia

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

Room 14

EuMIC05

Gallium Nitride Power Amplifiers

Chair: Rocco Giofrè¹

Co-Chair: Konstantinos Mimis²

¹Università di Roma Tor Vergata, ²Sony Europe B V

EuMIC05-1

GaN-on-Si for RF Applications: Progress, Potential and Challenges

Konstantinos Mimis¹

INDUSTRIAL KEYNOTE

¹Sony Europe B V

EuMIC05-2

A Twisted Hybrid Coupler-Based Balanced Power Amplifier in 150 nm GaN for 5G Applications

Sujevan Vigneswaran¹, Eric Kerhervé¹, Nathalie Delisle¹, Romain Mathieu², Kimon Vivien²

¹Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ²UMS - United Monolithic Semiconductors

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

EuMIC05-4

A Power-Reflection Tolerant 4-W Ka-band Power Amplifier for Satellite Communications

Anna Piacibello¹, Giulia Bartolotti¹, Andrea Biondi¹, Felix Mentgen¹, Vittorio Camarchia¹, Francesco Scappaviva¹

¹Politecnico di Torino, ²MEC s.r.l., ³ESA / ESTEC

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

EuMIC05-6

A 4-W 38 GHz High Efficiency Power Amplifier Using 0.12 μ m 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 To Measure is To Know: Innovations in Microwave Instrumentation

Jan Verspecht¹
¹Keysight 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.

12:10
–
12:50 Microwave Transformers – A Tale of Different RF Cultures

Steve Cripps¹
¹Cardiff 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.

MONDAY 14:10 – 16:10

ROOM

Room 10

EuMIC06

Advanced Circuits Analysis, Simulation, and Synthesis

Chair: Valeria Vadalà¹

Co-Chair: Marco Pirola²

¹University of Milano-Bicocca, ²Politecnico di Torino

14:10
–
14:30

EuMIC06-1

Harmonic Balance Simulation of Nonlinear Circuits Driven by Pseudo-Random Modulated Signals for EVM Evaluation

EL GHALI HAMOUCHE¹, Denis Barataud¹, Guillaume Neveux¹

¹Xlim - UMR 7252 - CNRS- University of Limoges

14:30
–
14:50

EuMIC06-2

Generalized Two-Port Feedback Analysis

Thomas Winslow¹

¹MACOM

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

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

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

15:50
–
16:10

Room 12

EuMIC07

Millimeter-Wave Phase Shifters and Mixed-Signal Circuits

Chair: Frank E. van Vliet (TBC)¹

Co-Chair: Sébastien Chartier²

¹TNO Defense, Safety and Security, ²IAF-Fraunhofer: Fraunhofer Institute for Applied Solid-State Physics

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)

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

EuMIC07-3

A 7-Bit 360° Ka-Band Phase Shifter Using Multifunctional Coupled Resonators in 90-nm CMOS

Pim-Chun Chiu¹, Chun-Sheng Lin¹, I-Chen Lu¹, Chun-Hsing Li¹

¹National Taiwan University

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.

EuMIC07-5

A Power-Efficient Monolithic 45-nm Silicon Photonics C-Band Transmitter For 100ZR QSFP28 Form Factors

Adel Fatemi¹, Despoina Petousi¹, Ana Pejkić¹, Saif Alnairat¹, Yagiz Nas¹, Alper Güner¹, Benjamin Wohlfeil¹, Alexandre Lassalle¹, Stevan Djordjević¹, Hasan Al-Rubaye¹

¹ADTRAN Networks SE, ²University of California San Diego, USA

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 Hu³

¹University of Science and Technology of China, ²University College Dublin

Room 14

EuMIC08

Silicon-Based Circuits and Systems for Emerging Applications

Chair: Gavin Watkins¹

Co-Chair: Nathalie Deltimple²

¹GapRF, ²Bordeaux INP, IMS Laboratory

EuMIC08-1

Scaling Silicon Spin Quantum Computers on the 22-nm FDSOI Platform

Alberto Gomez-Saiz¹

INDUSTRIAL KEYNOTE

¹Quantum Motion

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 Szilagyi¹, Chi Zhang², Abdelaziz Ketani², Ahmed Fridi², Shafiqullah Syed², Abdellatif Bellaouar²

¹GlobalFoundries, Germany, ²GlobalFoundries, USA

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

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 Funke², Klaus Aufinger², Nils Pohl², Jan Wessel¹

¹Fraunhofer FHR, ²Ruhr University Bochum, ³Infineon Technologies AG

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

Room 17

EuMIC09

GaN Devices and Technologies

Chair: Kenle Chen¹

Co-Chair: Chong Li²

¹Northeastern University, Boston,

²University of Glasgow

EuMIC09-1

A Robust 40 V 0.12- μ m GaN HEMT Technology Platform (NP12-0B) with Enhanced Power Density for RF Front-End MMICs

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

EuMIC09-2

High-Frequency Performance AlN/GaN HEMTs with sub-100 nm Gate Lengths

Patrick Jonsson¹, David Adolph¹, Niklas Rorsman¹

¹Chalmers University of Technology

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, Ekmelel Ozbay¹

¹Nanotechnology Research Center (NANOTAM), Bilkent University

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

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

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

EuMIC10

MMIC Advanced Automated and Open-Source Design Flows

Chair: Chiara Ramella¹

Co-Chair: Alessandro Cidronali²

¹Politecnico di Torino, ²Alessandro Cidronali

16:50
-
17:10

EuMIC10-1

Open-Source Design Automation of a V-Band Low Noise Amplifier in 130 nm SiGe BiCMOS Technology

Giulio Brancali¹, Giacomo Volini¹, Ethan Bernardini¹, Lorenzo Casciotti¹, Giacomo Schiavolini¹, Giulia Orecchini¹, Federico Alimenti¹

¹University of Perugia, Italy

17:10
-
17:30

EuMIC10-2

Pareto Optimization of a 25 GHz GaN MMIC Dual-Input Envelope Tracking PA Operation

Marco Badii¹, Stefano Maddio¹, Giovanni Lasagni¹, Giovanni Colodi¹, Monica Righini¹, Alessandro Cidronali¹

¹University of Florence, Italy

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 Ali¹, Md. Shafin Hossain¹, Rupok Das¹, Sultan Mohammad Ikram¹, Farabi Ibne Jamal¹

¹Neural Semiconductor Limited, ²IHP - Leibniz Institute for High Performance Microelectronics

17:50
-
18:10

EuMIC10-4

A Novel Fully Open-Source RFIC Design Flow for Ultra-Broadband and Low-Noise mmWave TIAs

Sultan Mohammad Ikram¹, Rupok Das¹, Atif Ali¹, Md. Shafin Hossain¹, Tanjil Shivan¹, Farabi Ibne Jamal¹

¹Neural Semiconductor Limited, ²Ferdinand Braun Institut (FBH), ³IHP - Leibniz Institut für innovative Mikroelektronik

18:10
-
18:30

EuMIC10-5

SKILLBridge-Driven Design Automation of a Gilbert-Cell Mixer in 130 nm SiGe BiCMOS

Giulio Brancali¹, Giacomo Volini¹, Ethan Bernardini¹, Lorenzo Casciotti¹, Giacomo Schiavolini¹, Giulia Orecchini¹, Federico Alimenti¹

¹University of Perugia, Italy

Room 11

EuMIC11

Advanced III/V RF Components

Chair: Gregor Lasser¹

Co-Chair: Ulrich Lewark²

¹Chalmers University of Technology, ²IMST GmbH

EuMIC11-1

High Linearity Carrier Aggregation Architecture Using A 250nm Bootstrap GaN N-Path Filter

Erez Loebli¹, Emanuel Cohen¹

¹Faculty of Electrical Engineering, Technion, Israel

EuMIC11-2

A Tunable X-band GaN MMIC Active Notch Filter with Adjustable Rejection

Sofia Mvokany¹, Ariana Kazemi¹, Laila Figuera Tarzal¹, Zoya Popovic¹

¹University of Colorado - Boulder

EuMIC11-3

1.3-W, 59%-Efficient K-band Rectifier MMICs using Cost-Effective Schottky Barrier Diodes

Shinji Hara¹, Kengo Sumiya¹, Keiichi Sakuno¹, Noriyuki Tanba¹, Yasuhisa Ushida¹

¹Nagoya University

EuMIC11-4

A 10 W, 4 - 20 GHz SPDT Switch Using Stacked Transistors in a 100-nm GaN-on-SiC Technology

Dominik Wrana¹, Kristina Widmer¹, Ralf Rieger¹, Patrick Schuh¹, Ralf Leberer¹

¹Hensoldt Sensors GmbH

EuMIC11-5

An Integrated V-Band Self-Synchronous Rectifier for Simultaneous WPT and Backscattering Capabilities Including a Radiating Element

Marco Badii¹, Giovanni Lasagni¹, Giacomo Schiavolini¹, Stefano Maddio¹, Giulio Brancali¹, Monica Righini¹, Federico Alimenti¹, Giovanni Colodi¹, Alessandro Cidronali¹

¹University of Florence, ²University of Perugia

Room 12

EuMIC12

Frequency Multipliers and Oscillators in Si and III-V Based Technologies

Chair: Piyush Kaul¹

Co-Chair: Ingmar Kalfass²

¹Eindhoven University of Technology - TU/e, ²University of Stuttgart

EuMIC12-1

A W-Band Frequency Tripler in 130 nm BiCMOS with a Novel Fundamental Rejection Technique

Chiara Kohl¹, Manuel Koch¹, Martin Grund¹, Kai Scheller¹, Norman Franchi¹

¹FAU Erlangen-Nuremberg, Institute for Smart Electronics and Systems

EuMIC12-2

Broadband SiGe D-Band Quadrupler with Class-F Bootstrapping

Caitlín Ellis¹, Yaw Mensah¹, Christopher Snyder¹, Joseph Caezza¹, John D. Cressler¹

¹Georgia Institute of Technology

EuMIC12-3

Extended D-Band Frequency Quadrupler based on Harmonic Source- and Load-Pull Measurements

Eric Sigle¹, Fabian Thome¹, Arnulf Leuther¹, Rüdiger Quay¹

¹Fraunhofer IAF

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 Chen¹, Jia-Fen Tsai¹, Hong-Yeh Chang¹

¹National Central University

EuMIC12-5

A Study of Schottky Gate Diode Noise in 10 GHz GaN HEMT Oscillators

Franjo Mikić¹, Pratap Tumkur Renukaswamy¹, Sriram Balamurali¹, Giovanni Mangraviti¹, Jan Craininckx¹, Piet Wambacq¹

¹imec

Room 17

EuMIC13

CMOS Devices and Technologies

Chair: Alan Wong

Co-Chair: Tudor Williams¹

¹Filtronix

EuMIC13-1

A Compact Band-Selectable Bi-Directional Coupler With an Integrated Wi-Fi Filter in RF SOI CMOS

Ting-Li Hsu¹, Valentyn Solomko², Amelie Hagelauer³

¹Chair of Micro and Nanosystems Technology, Technical University of Munich, ²Infineon Technologies AG

EuMIC13-2

Single-Chip Cryogenic Avalanche Noise Sources: Preliminary Results and Circuit Models

Guendalina Simoncini¹, Ehsan Shokrolahzade¹, Giacomo Schiavolini¹, Giulia Orecchini¹, Marco Spirito¹, Federico Alimenti¹

¹Technical University of Delft, ²Università degli Studi di Perugia

EuMIC13-3

Air-Filled Substrate Integrated Waveguide Structures in 3D Integrated Technology for D-band Applications

Hajar Zidane¹, Christopher Pouzou¹, Jordan Corsi¹, Loïc Vincent¹, Victor Milon¹, Cédric Durand¹, Pascal Chevalier¹, Daniel Gloria¹, Christophe Dubarry¹, Olivier Valorge¹, Jean-Daniel Arnaud¹, Emmanuel Pistono¹

¹Univ. Grenoble Alpes, ²Grenoble INP, CIME, ³STMICROELECTRONICS

EuMIC13-4

CMOS gate spacer process optimization to boost SOI device RF/mmWave performance

Yinyin Zhang Fu¹, Claire Fenouillet-Beranger¹, Jean-Pierre Raskin¹, Tadeu Mota-Frutuoso¹

¹CEA Leti, ²UCLouvain - RFSOI - Belgium

TUESDAY 08:30 - 10:30

ROOM	Room 1	Room 4	Room 6	Room 13
	EuMC01 Novel Guided-Wave Structures for Microwave Applications Chair: Ke Wu ¹ Co-Chair: Maurizio Bozzi ² ¹ Polytechnique Montreal, ² University of Pavia	EuMC02 Millimeter-Wave Circuits and Modules Chair: Jae-Sung Rieh ¹ Co-Chair: Jan Stake ² ¹ Korea University, ² Chalmers University of Technology	EuMC03 Sustainable Microwave and Communication Technologies Chair: Mahmoud Wagih ¹ Co-Chair: Wolfgang Heinrich ² ¹ University of Glasgow, ² Ferdinand Braun Institut gGmbH (FBH), Leibniz Institut für Höchstfrequenztechnik	EuMIC14 Silicon Based Power Amplifiers Chair: Paolo Colantonio ¹ Co-Chair: Alan Wong ¹ University of Rome Tor Vergata
08:30 - 08:50	EuMC01-1 AFSIW Power Detector Module Based on a Slanted AFSIW to Microstrip Directional Coupler Antonin Arnaud ¹ , Anthony Ghiotto ¹ , Manuel Potereau ¹ , Laurent Carré ² , Samir Lagoug ¹ , Jean-Marie Pham ¹ ¹ Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ² ACTIA AEROSPACE	EuMC02-1 200 GHz Impedance Tuner with Quasi-Vertical GaAs Flip-Chip Varactor Diodes for Sub-Millimeter Wave Applications Louis Lukaczyk ¹ , Junbo Liu ¹ , Christopher Moore ¹ , Matthew Bauwens ² , Arthur Lichtenberger ¹ , Robert M. Weikle ¹ , Scott Barker ¹ ¹ University of Virginia, ² Dominion MicroProbes Inc	EuMC03-1 Printed Microstrip Resonator for Dielectric Characterization of Sustainable Paper Substrates Duncan Platt ¹ , Darius Jakonis ¹ , Peter Ankarson ¹ , Ioannis Petsagkourakis ¹ , Robert Brooke ¹ , Mats Sandberg ¹ ¹ RISE AB	EuMIC14-1 A 40 %-PAE Power Amplifier with 2.35 W/mm ² power density for Ka Band SATCOM in 55 nm SiGe BiCMOS Technology Rémi Martin ¹ , Sébastien Sadlo ² , Antoine Le Ravallec ¹ , Nathalie Deltimple ¹ , Anthony Ghiotto ¹ ¹ STMicroelectronics/Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ² STMicroelectronics, France, ³ Univ. 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-platted Through Holes Roman Gamain ¹ , Anthony Ghiotto ¹ , Tifenn Martin ² , Maxime Mortada ² ¹ Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ² Thales SIX GTS	EuMC02-2 D-band GaN HEMT Load-Pull Performance Comparing TRL and mTRL Calibrations Jack Molles ¹ , Jerome Cheron ¹ , Nicholas Miller ² , Thomas Bonnen ¹ , Robert Jones ¹ , Cameron Evanovich ¹ , Bryan Bosworth ¹ , Andrew Beraro ¹ ¹ NIST, ² Michigan State University, ³ Focus Micro-waves, Canada	EuMC03-2 Cradle-to-gate LCA of sub-6GHz RF Front End Module 5G for User Equipment Benjamin Vanhouche ¹ , Bertrand Parvais ¹ , Cedric Rolin ² ¹ Imec & VUB, ² IMEC (Leuven, Belgium)	EuMIC14-2 D-Band SiGe-Based GCPW PA with Transformer Balun Achieving 2.51% EVM under 128-QAM Luis Aruquipa Callata ¹ , Aniello Franzese ¹ , Volkan Erturk ¹ , Seyyid Dilek ¹ , Sandro Wenzel ² , Oliver Voß ² , Batuhan Sutbas ¹ , Corrado Carta ¹ ¹ IHP-Leibniz-Institut für innovative Mikroelektronik, ² Rohde & Schwarz GmbH
09:10 - 09:30	EuMC01-3 HTS microstrip directional coupler for broadband noise injection in a radio astronomy receiver Bahare Mohamadzade ¹ ¹ CSIRO	EuMC02-3 A Frequency Doubler Operating from 200 up to 250 GHz Optimized by Harmonic Termination Lukas Gebert ¹ , Benjamin Schoch ¹ , Thomas Ufschlag ¹ , Sébastien Chartier ¹ , Sandrine Wagner ¹ , Ingmar Kallfass ¹ ¹ Institute of Robust Power Semiconductor Systems (ILH) - University of Stuttgart, ² IAF-Fraunhofer, Fraunhofer Institute for Applied Solid-State Physics	EuMC03-3 Life Cycle Assessment and Circularity Strategies of GaN-on-SiC Substrates for RF Max Mosig ¹ , Benjamin Amann ¹ , Ruediger Quay ¹ ¹ Albert-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 Fritzin ¹ , Fabien Mesquita ¹ , Mustafa Özen ¹ , Magnus Nilsson ¹ , Olov Haapalahti ¹ ¹ Ericsson 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 Späth ¹ , Anagha Siby ² , Robin Neuder ¹ , Martin Schüßler ¹ , Holger Maune ¹ , Alejandro Jiménez-Sáez ¹ ¹ Technical University of Darmstadt, ² Otto 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 Lermi ¹ , Aniello Franzese ² , Seyyid Dilek ² , Franz Alwin Dürrwald ³ , Batuhan Sutbas ¹ , Mohamed Hussein Eissa ⁴ , Yasar Gurbuz ⁴ , Corrado Carta ¹ ¹ Sabancı University, ² IHP-Leibniz-Institut für innovative Mikroelektronik, ³ Technical University Dresden	EuMC03-4 A Multi-Kernel Convolutional Neural Network Digital Predistortion with Partitioned Inputs for Complexity Reduction Yudai Shiota ¹ , Hiroto Sakaki ¹ , Kenjiro Nishikawa ¹ ¹ Kagoshima University, ² Mitsubishi Electric Corporation	EuMIC14-4 A Compact 114-146GHz 2-Stacked Power Amplifier Achieving 14.9dBm Output Power in 28nm CMOS Tianzhu Huang ¹ , Alexander Schönecker ¹ , Kai Scheller ¹ , Albert-Marcel Schrotz ¹ , Robert Weigel ¹ , Norman Franchi ¹ ¹ FAU 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 Sharma ¹ , Jonathan David Chisum ¹ ¹ University of Notre Dame, USA	EuMC02-5 2.7-Octave (50-330 GHz) Detector Module Using a Dielectric-Waveguide-Integrated RTD Yuma Kawamoto ¹ , Daniel C. Gallego ² , Santiago Gómez ² , Yosuke Nishida ³ , Kazuisao Tsuruda ⁴ , Tadao Nagatsuma ⁵ , Alejandro Rivera-Lavado ⁶ , Guillermo Carpintero ⁶ ¹ Leapwave Technologies SL, Universidad Carlos III de Madrid, ² Leapwave Technologies SL, ³ ROHM Co., Ltd., ⁴ The University of Tokyo	EuMC03-5 Reconfigurable RF Power Detector Using Aperture Time of a SAR ADC Prabhav Manchanda ¹ , Cristina Andrei ² , Ulrich L. Rohde ¹ , Matthias Rudolph ¹ ¹ Brandenburg Technical University Cottbus-Senftenberg, ² Brandenburg Technical University Cottbus, Cottbus, ³ MIT Microsystems Technology Laboratories	EuMIC14-5 A Ku-Band CMOS Power Amplifier with a Compact Interstage Matching Network for Efficient Impedance Transformation and High Gain SeungHo Lee ¹ , ChangKun Park ¹ ¹ Intelligent 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 Li ¹ , Yang Zhang ¹ , Kamil Yavuz Kapusuz ² , Sam Lemey ¹ , Miguel Glassee ¹ , Marc Bauduin ¹ , Claude Desset ¹ , Giuseppe Gramegna ¹ , Piet Wambacq ¹ ¹ IMEC, ² IMEC and Ghent University, ³ Universiteit Gent, ⁴ imec / 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 Vliet (TBC)²

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 Lee¹

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 240-GHz PA-Last Transmitter Using Layout-Customized High-f_{max} 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

A 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 Nallatamby¹, 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, James F. Buckwalter¹, Clint Schow¹,
Alex Dinkelacker¹, Xinhong Du¹, Xiangwei Kong¹

¹University of California, Santa Barbara (UCSB)

EuMIC-PO1-13

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

Pieter Cardinael¹, Benjamin Vanhouche², Cedric
Rolin³, Bertrand Parvais⁴, 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 Mikroele-
ktronik

EuMIC-PO1-6

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

Christian Bredendiek¹, Jan Schoepfel¹, Dominic
Funke², Jan Wessel³

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- μ m GaAs for Sub-
GHz Band Applications

Haifeng Liu¹, Weidong Kong², Tengfei Gu¹, Benqing
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 De-
vices for LC-VCO Measurement-
Based Design and Simulation

Victor Sabiá-Pereira-Carpes¹, José Lugo-Alvarez²,
Maryline Bawedin³, Florence Sonnerat⁴, Cédric
Durand⁵, Philippe Galy⁶, Manohiaina Galal-El-Dine⁷,
Aurelie Bajolet⁸, Benjamin Dormieue⁹, Benoit Legoix¹⁰,
Franck Sabatier¹¹, Mikael Cassé¹²

¹Grenoble INP - CROMA & Université Grenoble
Alpes - CEA-Leti, 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

¹Hanbat National University

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 Differ-
ence

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 Using Gain
Cell with Triple-Cascade in 65-nm
CMOS for Multi-Band Receiver
Application

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

EuMIC16

Advanced Techniques for Linear PA Design

Chair: Kevin Morris¹

Co-Chair: Pere L. Gilabert²

¹University of Leeds, ²Universitat Politècnica de Catalunya

11:10
–
11:30

EuMIC16-1

Beam-Dependent Linearization of Active Phased Arrays Using Artificial Neural Networks

Ali Asghar Sharifi¹, Gabriel Montoro¹, Pere L. Gilabert¹

¹Universitat Politècnica de Catalunya (UPC-Barcelona Tech.)

11:30
–
11:50

EuMIC16-2

Performance Optimization of a GaAs HBT MMIC Doherty Power Amplifier via Active Bias Power Cell

Francesco Manni¹, Chiara Ramella², Rocco Giofrè¹, Corrado Florian³, Alberto Maria Angelotti⁴, Gian Piero Gibiino⁵, Marco Pirola², Paolo Colantonio¹

¹University of Roma "Tor Vergata", ²Politecnico di Torino, ³University of Bologna

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 Mimis¹, Chris Clifton¹, Atsushi Yamaguchi¹, Kazumasa Kohama¹, Masayuki Shimada²

¹Sony Europe Limited, ²Sony Semiconductor Solutions Corporation

12:10
–
12:30

EuMIC16-4

Efficiency-Linearity Trade-Off in Envelope Tracking PAs for Integrated Sensing and Communication

Amirmohammad Shahghasi¹, Gabriel Montoro¹, Pere Lluís Gilabert Pinal¹

¹Universitat Politècnica de Catalunya (UPC-Barcelona Tech.), Spain

12:30
–
12:50

EuMIC16-5

Effect on Performance of Embedded Drivers in a Sequential LMBA for FR1 5G NR

Giulia Bartolotti¹, Angela Ciutat², Gabriel Montoro², Anna Piacibello¹, Pere L. Gilabert¹, Vittorio Camarchia¹

¹Politecnico di Torino, Italy, ²Universitat Politècnica de Catalunya (UPC)

Room 17

EuMIC17

Millimeter-Wave Mixers and Power Detectors

Chair: Sébastien Chartier¹

Co-Chair: Piyush Kaul²

¹IAF-Fraunhofer: Fraunhofer Institute for Applied Solid-State Physics, ²Eindhoven University of Technology - TU/e

EuMIC17-1

A Compact and Efficient Low-Voltage D-Band Darlington Up-Conversion Mixer

MARZIE MOLLAALIPOUR¹

¹Chalmers University of Technology

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 Arnold¹, Muh-Dey Wei¹, Renato Negra¹

¹RWTH Aachen University, Germany

EuMIC17-3

Zero-IF Capable Single-Balanced HEMT Mixers with 2 ± 2 dB Conversion Loss from 110 to 220 GHz

Patrick Umbach¹, Eric Sigle¹, Fabian Thome¹, Arnulf Leuther¹, Rüdiger Quay¹

¹Fraunhofer IAF

EuMIC17-4

120-/160-GHz High-Dynamic-Range Power Detectors in 130-nm SiGe BiCMOS

Arda Ozdemir¹, Volkan Erturk², Seyyid Dilek², Asif Ali Mir³, Batuhan Sutbas², Corrado Carta⁴

¹Massachusetts Institute of Technology, ²HP - Leibniz Institute for High Performance Microelectronics

EuMIC17-5

A Broadband Antenna-Coupled Terahertz Power Detector in a 12 nm FinFET CMOS Technology

Hamadi Sadkaoui¹, Marcel Andree¹, Tasnim Ben Mansour¹, Ullrich R. Pfeiffer¹

¹University 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 Harman¹
¹EuMW 2026 General Chair

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

11:15
–
11:25 EuMA Welcome Address

Frank van den Bogaart¹
¹EuMA President

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 Brokenshire¹
¹Flann 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.

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

Anding Zhu (TBC)¹
¹IEEE MTT-S President

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

Speaker TBC

12:45
–
12:50 Closing Remarks

Speaker TBC

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

Frank E. van Vliet¹
¹EuMA Awards Committee Chair

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

Stepan Lucyszyn¹
¹Imperial 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

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 from L to Ka Bands

Lamyà IBILI¹, Thierry Lacrevez¹, Grégory Houzet¹, William Feuray², Nicolas Corrao³, Gaël Depres³, Victor Thenot⁴, Tân-Phu Vuong⁵

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

¹Flexicom 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

¹MST 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

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)

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

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

14:50
–
15:10

EuMC/EuMIC01-03

Sustainable Microwave Materials: from LCAs to Advanced Packaging

Mahmoud Wagih¹

¹University of Glasgow

15:10
–
15:30

EuMC/EuMIC01-04

Carbon Footprint of an InP HBT Process

Tuğana Aslan¹

¹Research Fab Microelectronics Germany FMD

15:30
–
15:50

EuMC/EuMIC01-05

Carbon Footprint and Critical Materials in RF Semiconductors

Benjamin Vanhouche¹, Bertrand Parvais², Ayesha Noor³, Cedric Rolin⁴

¹IMEC, ²imec & VUB, ³imec

15:50
–
16:10

Room 1

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

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 Thong¹, Jongsik Lim², Yongchae Jeong¹

¹Jeonbuk National University, South Korea, ²Soonchunhyang University, South Korea

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, Jongjiong Mo¹, Jiarui Liu¹, Faxin Yu¹

¹Zhejiang University

EuMC04-3

Design and Measurement of a 16 GHz SMD Self-Biased Ferrite Circulator

Vincent Olivier¹, Vincent Laur², Norbert Parker-Soues³, Laurent Roussel¹, Richard Lebourgeois¹

¹NOVEOS SAS, ²LABSTICC-UBO, ³Thales Land & Air System, ⁴Thales Research & Technology (TRT)

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

EuMC04-5

New Concept of Dual-Band Microstrip Ferrite Circulator Based On Wideband Configuration

Vincent Olivier¹, Thierry Monédière¹, Laure Huitema²

¹NOVEOS SAS, ²XLIM - CNRS - Université de Limoges

Room 4

EuMC05

Terahertz Antennas

Chair: Withawat Withayachumnankul¹

Co-Chair: Joachim Oberhammer

¹The University of Adelaide

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

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

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 Suys³, Hisao Hayafuji¹

¹Murata Manufacturing Co., Ltd., ²imec

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

EuMC05-5

A 3x3 545 GHz Lensless Digitally Controlled Beam Steering Radiation Source Array in 28nm CMOS

Sumet Londhe¹, Eran Socher¹

¹Tel Aviv University

EuMC05-6

Phase Profile Optimization for High Gain-Bandwidth Transmitter at 300 GHz

Marc Zhan¹, Bilal Ouardi¹, David Demmer¹, Antonio Clemente¹

¹CEA - LETI

Room 6

EuMC06

Advances in Quantum Technologies and Educational Initiatives

Chair: Manoj Stanley¹

Co-Chair: Ulf Johannsen²

¹National Physical Laboratory (NPL),

²Eindhoven University of Technology

EuMC06-1

Interlaboratory Study of Cryogenic On-Wafer S Parameter Measurements of CPW Microwave Devices

Lewis Manning¹, Daniel Stokes¹, Andrin Bagus², Fabian Thome³, Felix Heinz², Francesco Fortunato⁴, Helena Rodilla⁵, Jan Stake⁶, Nick Ridler⁷, Xiaobang Shang¹

¹National Physical Laboratory (NPL), UK, ²Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics, ³Chalmers University of Technology

EuMC06-2

Digital Predistortion for Flux Control of Tunable Superconducting Qubits

Dharun Venkateswaran¹, Felice Francesco Tafuri¹, Alisa Danilenko¹, Philip Krantz²

¹Keysight Technologies Inc., USA

EuMC06-3

An Embedded Microwave Structure for Scalable Trapped Ion Quantum Computing

Georg Frederik Riemschneider¹, Nico Weiss¹, Marvin Jäger¹, Omar Jabi¹, Cheng Yang¹, Alexander Kölpin¹

¹Institute of High-Frequency Technology, Hamburg University of Technology, ²Institute of Electromagnetic Theory, Hamburg University of Technology

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

EuMC06-5

Teaching Wireless Power Transfer through Competitive Challenges at Bachelor level

Simon Hénour¹, Pablo Pérez-Nicoli², Damien Blanchard¹, Sarah Reverdy¹, Sarah Reverdy¹, Jean Tomas¹

¹Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, France, ²Universidad de la República, ³Univ. Bordeaux, IUT de Bordeaux, ⁴Univ. Bordeaux, Education nationale

TUESDAY 14:10 - 16:10

ROOM

Room 13

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

14:10
-
14:30

EuMC07-1

Reconfigurability of SIW Bandpass Filters Using Switchable Liquid-Metal-Based Iris Windows

Raúl García¹, Angela Coves Soler¹, Miguel Sánchez-Soriano², Alejandro L. Borja¹, Darío Herraiz², Vicente E. Borja¹

¹Universidad Miguel Hernández de Elche, ²University of Alicante, ³Universidad de Castilla-La Mancha, ⁴Universitat Politècnica de València

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

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)

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

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. Boria¹, 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

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.

Room 17

EuMIC18

Recent Advances in III/V Amplifiers

Chair: Corrado Carta¹

Co-Chair: Vojkan Vidojkovic²

¹IHP Microelectronics, ²Eindhoven University of Technology

EuMIC18-1

Switched Quadrature GaN X-band Power Amplifier for Circularly Polarised Transmission

Laura Margot van Vliet¹, David Niven², Andrew Jones², Melissa Gorman¹, Simon J. Mahon¹, Frank E. van Vliet (TBC)

¹TU Delft, ²Macquarie University, ³University of Twente

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 Kallfass¹

¹Institute of Robust Power Semiconductor Systems (ILH), University of Stuttgart, ²Tesat Spacecom GmbH & Co. KG

EuMIC18-3

A GaN Sensor for on-MMIC DC Current Monitoring

Grace Gomez¹, Taylor Barton¹

¹University of Colorado Boulder

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

EuMIC18-5

A Compact D-Band GaN LNA MMIC for Monolithic Transceiver Integration

Thomas Zieciak¹, Philipp Neiningger¹, Christian Friesicke¹, Peter Brückner¹, Rüdiger Quay¹

¹Fraunhofer Institute for Applied Solid State Physics IAF

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

EuMC08

3D Passive Components and Non-Planar Microwave Structures

Chair: Ariana L. C. Serrano¹

Co-Chair: Nicolò Delmonte²

¹Universidade de Sao Paulo, ²Dept. of Electrical, Computer and Biomedical Engineering, University of Pavia

16:50
–
17:10

EuMC08-1

Linear-to-Circular Polarization Converter for D-Band Circular Dielectric Waveguides

Debrina Dutta¹, Abhijit Pal¹, Martin Schneider¹

¹Universität Bremen

17:10
–
17:30

EuMC08-2

A Compact High-Directivity Dual-Directional Coupler for 40–67 GHz Applications

Tingting Sun¹, Fuyao Song¹, Zhen Wang², Guanghua Shi², Cheng Guo¹

¹Xi'an Jiaotong University, ²The 13th Research Institute of China Electronics Technology Group Corporation

17:30
–
17:50

EuMC08-3

A Phase-Matched Monolithic Orthomode Transducer via Stereolithography 3D Printing

Giacomo Giannetti¹

¹Max Planck Institute for Physics

17:50
–
18:10

EuMC08-4

Key Building Block Design for Dual-Band Dual Linear or Circular Polarized Combiner Applications

Uwe Rosenberg¹, Ralf Beyer¹, Thomas Sieverding¹, Peter Kneissl¹

¹Mician Global Engineering GbR, ²ESA Microwave GmbH

18:10
–
18:30

EuMC08-5

Design of A Double-Ridge-Waveguide Magic-T for Ultra-Wideband Application

Peng Liu¹

¹Institute of Electronic Engineering of CAEP

Room 4

EuMC09

Millimeter-Wave and Terahertz Devices

Chair: Withawat Withayachumnankul¹

Co-Chair: Jan Stake²

¹The University of Adelaide, ²Chalmers University of Technology

EuMC09-1

Sub-1-dB-Insertion-Loss Millimetre-Wave SPST Switch Based on Quasi-1D Metadevices

HAORU XING¹, HAORU XING¹

¹Nanyang Technological University

EuMC09-2

A Pad-Integrated Broadband THz 1 to 4 T-Marchand Hybrid Balun-Splitter Using Asymmetric Coupled Lines

Xinpeng Du¹, Marcel Andree¹, Ullrich R. Pfeiffer¹

¹University of Wuppertal

EuMC09-3

A Micromachined Silicon Carbide On-wafer Probe in the WR-1.5 Waveguide Band

Junbo Liu¹, Matthew Bauwens², Daniel Lobo², Michael Cyberek¹, Robert M. Weikle¹, Arthur Lichtenberger¹, Scott Barker¹

¹University of Virginia, ²Dominion Microprobes, Inc

EuMC09-4

Broadband Metallized 3D Printed THz Conical Horn Antenna

Alejandro Garcia-Tejero¹, Rico Weber¹, Seymen Yolcu¹, Dmitrij Ilevlev¹, Jerzy Kowalewski¹, Dirk Götzl¹, Marco Buhmann¹, Francesco Merli¹

¹HUBER+SUHNER AG

EuMC09-5

Flexible metal/dielectric waveguides in D-band

Prakash Gyawali¹, Alexandre Renau¹, Ronan Cranny², Julien Logette², Stéphanie Géas², Antoine Baudin¹, Yanis Charif¹, Bruno Giacomini², Ludovic Burgnies¹, Pascal Szriftgiser¹, Guillaume Ducournau¹

¹Univ. Lille, ²Axon' Cable

Room 13

EuMC10

Non-Planar Filters

Chair: Yi Wang¹

Co-Chair: Eric Rius²

¹University of Birmingham, ²Université de Brest

EuMC10-1

Making Brick-Wall Bandstop Filters A Practical Reality

Simone Bastioli, Richard Snyder¹

INDUSTRIAL KEYNOTE

¹RS Microwave

EuMC10-2

Wideband Coaxial Bandpass Stub Filters Based on an Original Interconnection

Juan-Pablo Guzman Velez¹, Eric Rius², Jessica Bénédicte¹, Jean François Favennec³

¹Lab-STICC UBO, ²Université de Brest, ³Lab-STICC University of Brest, ⁴Lab-STICC/Bretagne INP

EuMC10-3

Inkjet-Printed 3D Circular Cavity Resonator-Based Bandpass Filters

Deepal Patil¹, Dimitra Psychogiou²

¹Tyndall National Institute, ²Tyndall National Institute, University College Cork

EuMC10-4

Miniaturization Strategies for UHF Combine Filters via Folded 3D-Printed Non-Canonical Resonators

Ramy Bouderbail¹, Gines Garcia-Contreras¹, Stefano Sirci², Esteban Menargues², Cristiano Tomassoni², Maria Garcia-Viguera³

¹Univ. Rennes, INSA Rennes, CNRS, IETR-UMR 6164, ²Swisstol 2 SA, ³Department of Engineering, University of Perugia

EuMC10-5

Cascaded Quadruplet & Box Configuration Filters Exhibiting All Positively Coupled Resonators

Wael Fathelbab¹

¹Northrop Grumman Corporation

Room 17

EuMC11

Modeling of Propagation Structures and Transitions

Chair: Luca Perregini¹

Co-Chair: Cristiano Tomassoni²

¹University of Pavia, ²University of Perugia

EuMC11-1

Semi-Analytical Modeling of the Cutoff Frequency in Rectangular Waveguides with Rounded Corners

Samir Lagoug¹, Anthony Ghiotto¹, Eric Kerherve¹

¹Univ. Bordeaux, Bordeaux INP, CNRS, IMS, UMR 5218, France

EuMC11-2

Investigation and Modelling of Cross-Talk in Multi Polymer Microwave Fiber Communication Systems

Stefan Wögerbauer¹, Lukas Ebner¹, Helmut Paulitsch¹, Michael Ernst Gadringer¹

¹Graz University of Technology

EuMC11-3

Dielectric Waveguide Transition Design Using Non-Parametric Shape Optimization

Archibald Wishard Rohde¹, Tinus Stander¹, Theunis S. Beukman¹

¹University of Pretoria, ²Dassault Systèmes South Africa (Pty) Ltd

EuMC11-4

Crosstalk Suppression using Twisted-Pair Differential Lines in CMOS Technology for Enhanced Signal Integrity

Maksim Kuznetsov¹, Qifeng Shen¹, Jonathan Johnstone², Yunhao Chen¹, Symon K. Podilchak¹, Brian Frank¹, Alois Freundorfer¹, Yahia Antar¹

¹The University of Edinburgh, ²Queen's University, ³The Royal Military College of Canada

TUESDAY 16:50 – 18:30

ROOM Room 8 - 11

EuMIC19 EuMIC Closing

16:50	Session Welcome	18:15	Closing Remarks
16:55	Tudor Williams ¹ ¹ Filtronic	18:25	Tudor Williams ¹ ¹ Filtronic
16:55	RF/mmWave Silicon Enabling the SATCOM Space Race	18:25	Invitation to EuMIC 2027
17:25	Alan Wong	18:30	Ernesto Limiti ¹ ¹ University of Rome Tor Vergata
	<p>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.</p> <p>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.</p>		
17:25	Trends in III-V Semiconductor Design - A Component and Design Services Supplier Perspective		
17:55	Merv Haynes ¹ ¹ CML Micro		
	<p>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.</p>		
17:55	Awards Ceremony – EuMIC Best Paper Awards		
18:15	Tudor Williams ¹ ¹ Filtronic		

WEDNESDAY 08:30 - 10:30

ROOM	Room 1	Room 4	Room 6	Room 7
	EuMC12 Active Integrated Phased Arrays and Tx/Rx Module Technologies <hr/> Chair: Ulf Johannsen ¹ Co-Chair: Gabriele Federico ² ¹ Eindhoven University of Technology, ² Eindhoven University of Technology - TU/e	EuMC13 Millimeter-Wave and THz Communication <hr/> Chair: Guillaume Ducournau ¹ Co-Chair: Tadao Nagatsuma ² ¹ University of Lille, ² The University of Tokyo	EuMC14 Components Based on Emerging Materials and Processes <hr/> Chair: Pierre Blondy ¹ Co-Chair: Raafat R. Mansour ² ¹ Xlim - UMR 7252 - CNRS - Limoges University, ² University of Waterloo	EuMC15 Integrated CMOS and GaN Power Amplifiers <hr/> Chair: Vittorio Camarchia ¹ Co-Chair: José Angel García ² ¹ Politecnico di Torino, ² University 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 <hr/> Ryosei Miyagawa ¹ , Yuki Fujiya ¹ , Tomoyuki Furuchi ¹ , Satoshi Tsukamoto ¹ , Noriharu Suematsu ¹ ¹ Tohoku University	EuMC13-1 E-band Radio Link utilizing a 29 dBm GaN PA demonstrated in Field Trial <hr/> Mikael Hörberg ¹ , Klas Eriksson ¹ , Bharath Cimbili ² , Sining An ¹ , Johan Karlsson ¹ , Jonas Gustavsson ¹ , Richard Lindman ¹ , Torbjörn Dahl ¹ , Konstantinos Bitsikas ³ , Konstantinos Kravariotis ³ , Mingquan Bao ³ , Christian Friesicke ⁴ , Ruediger Quay ⁴ , George Skiadas ⁴ , Sam Agneessens ⁵ , Martin Myhr ⁶ ¹ Ericsson AB, ² Fraunhofer IAF, ³ Fraunhofer Institute for Applied Solid State Physics, ⁴ Ericsson Greece, ⁵ OTE-Group of Companies	EuMC14-1 A DC-67 GHz Phase Change Material Based SPDT Switch In a Commercial SiGe BiCMOS Process <hr/> Ahmed Metwally Hegazy ¹ , Raafat R. Mansour ¹ ¹ University 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 <hr/> Lu Xie ¹ , Kun Gao ¹ , Yudi Yang ¹ , Yuhang Zhang ¹ , Jiewen Wang ¹ , Shuyang Li ¹ , Shunhua Hu ¹ , Wenhua Chen ¹ ¹ Tsinghua University
08:50 - 09:10	EuMC12-2 Comparison of Direct Filtering and Channel Splitting in the Context of Digital Beamforming Chiplets <hr/> Nick Cancrinus ¹ , Yanki Aslan ¹ , Samer Medawar ² , Alvaro Diaz Bolado ² , Alessandro Matheoud ² , Alexander Yarovoy ³ ¹ Delft University of Technology, ² Viasat Antenna Systems	EuMC13-2 A 100-Gbps D-Band Communication Link Using Polymer Microwave Fiber and eWLB-packaged SiGe BiCMOS Technology <hr/> Haojie Chang ¹ , Maciej Wojnowski ² , Sining An ¹ , Frida Strömbeck ¹ , Yu Yan ¹ , Hartner Walter ¹ , Parisa Aghdam ¹ , Herbert Zirath ¹ ¹ Chalmers University of Technology, ² Infinion Technologies AG, ³ Ericsson AB, Sweden	EuMC14-2 Tunable Microwave Stub for Ku-Band Compact Tuners using PCM Switches <hr/> Karim Nunes Maia ¹ , Nicolas Parou ¹ , Cyril Guines ¹ , Julien Lintignat ¹ , Audrey Martin ¹ , Pierre Blondy ¹ ¹ Xlim - UMR 7252 - CNRS	EuMC15-2 A 26.3-36.2 GHz Power Amplifier Employing Coupled-TL Feedback and an Optimized Gate Layout <hr/> Yo-Sheng Lin ¹ , Wei-Chung Weng ¹ ¹ National Chi Nan University
09:10 - 09:30	EuMC12-3 A Simultaneous 28 GHz FDD Phased Array Transceiver with Interference Tolerant RF Front End <hr/> Yuval Ginzberg ¹ , Sergei Efimov ¹ , Emanuel Cohen ¹ ¹ Technion - Israel Institute of Technology	EuMC13-3 Robust Long-Term Duplex Operation of a Wireless Network-Integrated Terahertz Outdoor Testbed <hr/> Simon Hausmann ¹ , Lukas Gebert ¹ , Axel Tessmann ² , Ralf Henneberger ² , Thomas Zwick ³ , Ingmar Kalfass ⁴ ¹ University of Stuttgart, Institute of Robust Power Semiconductor Systems, ² Fraunhofer Institute for Applied Solid State Physics IAF, ³ RPG Radiometer Physics GmbH, ⁴ Karlsruhe Institute of Technology (KIT)/ Institute of Radio Frequency Engineering and Electronics (IHE)	EuMC14-3 Polydopamine-Assisted Tollens Metallization for 3D-Printed Microwave Components <hr/> Dominik Langer ¹ , Frederike Bartels ¹ , Alexander Kölpin ¹ ¹ Hamburg University of Technology (TUHH)	EuMC15-3 A MMIC-Based 14 GHz Dual Driver Doherty Power Amplifier Using Improved GaN/Si Technology <hr/> Dhruvin Dhaval Pandya ¹ , Christian Schubert ¹ , Stefan Bernhofer ¹ , Sudip Ghosh ¹ , Thomas Maier ² , Samer Al-Harazi ³ , Helmut Brech ⁴ , Rüdiger Quay ⁴ ¹ Infinion Technologies AG, ² Fraunhofer Institute for Applied Solid State Physics (IAF), ³ Nokia Technology Center Ulm, ⁴ Institute 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 <hr/> Stefano Pisa ¹ , Renato Cicchetti ¹ , Emanuele Piuze ¹ , Erika Pittella ¹ , Orlantino Testa ¹ , Stefano Perticaroli ² , Francesco Buratti ² , Antonio Mosca ² , Marco Trigilio ² , Hassan Raza ² , Michela Dragone ² , Leonardo Cordisco ² , Saeid Jamili ² ¹ Sapienza University of Rome, ² Radio Analog Micro Electronics srl, RAME	EuMC13-4 A Polymer Microwave Fiber Link at Y-band for Low-Cost High-Speed Communication <hr/> Frida Strömbeck ¹ , Maciej Wojnowski ² , Klaus Standner ² , Walter Hartner ² , Yu Yan ¹ , Herbert Zirath ¹ ¹ Chalmers University of Technology, ² Infinion Technologies AG	EuMC14-4 2D MXene Enables Stretchable Resonant Array (SRA) for Structural Health Monitoring <hr/> Zahra Sarpanah Sourkoui ¹ , Jamal Alhourani ² , Yury Gogotsi ³ , Mohammad Zarif ³ ¹ The University of British Columbia, ² A.J. Drexel Nanomaterials Institute and Department of Materials Science and Engineering, Drexel University, ³ The University of British Columbia, Canada	EuMC15-4 Monolithically Integrated Doherty PA for Band n104 Massive-MIMO Arrays <hr/> Christian Musloff ¹ , Helmut Brech ¹ , Alexander Doublein ¹ , David Riess ² , Michael Loose ² ¹ Infinion Technologies AG, ² Friedrich-Alexander-Universität Erlangen-Nürnberg
09:50 - 10:10	EuMC12-5 Constructing Directional Modulation Transmitter Using Nonlinear Active Arrays <hr/> Jiayu Hou ¹ , Yiyue Jiang ² , Aidan Colgan ² , Jonathan Ribeiro ³ , John Dooley ³ , George Goussetis ³ , Yue Xiao ³ , Yuan Ding ³ ¹ Heriot-Watt University, Edinburgh, ² Department of Electronic Engineering, Maynooth University, ³ University of Electronic Science and Technology of China	EuMC13-5 Demonstration of 300 GHz Non-line-of-sight TCP-IP Link Enabled by Reflective Surface <hr/> Rita Younes ¹ , Frederic Dutin ¹ , Davy Gallot ¹ , Pascal Schriftgiser ² , Victor Torres ³ , Jorge Teniente ⁴ , Itziar Maestrujoan Biurrun ⁵ , Simon Hausmann ⁶ , Lukas Gebert ⁶ , Ingmar Kalfass ⁶ , Axel Tessmann ⁶ , Sandrine Wagner ⁶ , Sébastien Chartier ⁶ , Carlo Lanzoni ⁶ , Gabriele Canini ⁶ , Luca Sanguineti ⁶ , Guillaume Ducournau ⁶ ¹ EMN, CNRS, University of Lille, France, ² Laboratoire de Physique des Lasers, Atomes et Molécules, UMR CNRS 8523 PhLAM, Université de Lille, France, ³ Anteral, ⁴ Public University of Navarre, ⁵ Institute of Robust Power Semiconductor Systems (ILH), ⁶ Fraunhofer IAF, ⁷ Robopac-TECHLAB, ⁸ CNIT	EuMC14-5 A Monolithic Metal 3D-Printed E-band Waveguide Cavity Filter: Manufacture and Surface Treatment <hr/> Abolfazl Mostaani ¹ , Talal Skaik ¹ , Lu Qian ¹ , Peter Huggard ² , Peter Hunyor ² , Xiaobang Shang ² , Ollid Bouzekri ³ , Yi Wang ³ ¹ University of Birmingham, ² UKRI STFC Lab, ³ National Physical Laboratory, ⁴ ESA-ESTEC	EuMC15-5 Average Power Tracking Analysis of a Ka-Band GaN MMIC Power Amplifier With Integrated Supply Modulator for 5G Waveforms <hr/> Gobezie Nigusie Molla ¹ , Meseret Tesfaye Wolde ¹ , Mohammad Moussa ¹ , Ahmad Al Hajjar ² , Julien Poulain ² , Philippe Bouysse ³ , Audrey Martin ³ ¹ XLIM - CNRS - Université de Limoges, ² MACOM Technology Solutions
10:10 - 10:30	EuMC12-6 Hierarchical Tiled Arrangement of Unit Phased Array for High-Speed Beam Steering <hr/> Sodai Hiyoshi ¹ , Yotaro Mune ¹ , Anji Miura ¹ , Ryuma Naruki ¹ , Hideyuki Nosaka ¹ ¹ Ritsumeikan University		EuMC14-6 Buried-Electrode Surface Acoustic Wave: a high velocity mode for UHB applications <hr/> Sylvain Ballandras ¹ , Alexandre Clairet ¹ , Emilie Courjon ¹ , Roland Salut ¹ , Florent Bernard ¹ , Tony Makdissy ¹ , Tony Makdissy ¹ , Saly N'laye ¹ , Thierry Laroche ¹ , Marie Bousquet ¹ , William Daniau ¹ , Laure Rolland du Roscoat ¹ , Karine Landry ¹ , Aziz Alami-Idrissi ¹ ¹ SOITEC SA, ² FEMTO-ST UMR 6174, ³ CEA - LETI	EuMC15-6 A W-Band Packaged 2-Watt GaN CW Power Amplifier Module to Cover Frequency Range of 75 to 110 GHz <hr/> Yonghui Shu ¹ , Alex H. Chen ¹ ¹ Ervant

WEDNESDAY 08:30 - 10:30

ROOM Room 11

EuMC16

EuMA-EurAAP Special session 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 Vidokovic¹

¹Eindhoven University 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 Shinohara¹

Co-Chair: Alessandra Costanzo²

¹Kyoto University, ²Università di Bologna

08:30
-
08:50

EuMC17-1

Power Distribution Control in Multi-Receiver WPT Using a Receiver Power Controllable Transmitter

Yeong-Ju Seo¹, Ji-Young Kim¹, Yun-sung Kim¹, Haechan Kang¹, Junhyun Kim¹, Jong-Won Yu¹

¹School 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 Kuri¹, Naoki Shinohara¹, Tomoki Yoshida¹, Tomohiko Mitani¹, Takayuki Okada²

¹Kyoto University, Japan, ²Murata Manufacturing Co., Ltd.

09:10
-
09:30

EuMC17-3

Hybrid Solar-Microwave Energy Conversion for Greenhouse Agriculture Using Transparent Rectennas

JING Jianwei¹

¹Kyoto University, Japan

09:30
-
09:50

EuMC17-4

Enhanced Wireless Power Transfer in Complex Propagation Environments using Phase Conjugation

Anahita Piri¹, Ícaro Veloso Soares², Matthieu Davy¹, Denys Nikolayev¹

¹IETR, ²Trinity College Dublin

09:50
-
10:10

EuMC17-5

Recyclable Additive Circuits for RF Wireless Power Transfer Enabling Improved Power Handling and Sustainability

Nikolas Bruce¹, Xiaochuan Fang¹, Mahmoud Wagih¹

¹University of Glasgow

Room 14

EuMC18

Advanced VNA Measurement Techniques

Chair: Michael Ernst Gadringer¹

Co-Chair: Andrej Rumiantsev²

¹Institute of Microwave and Photonic Engineering, Graz University of Technology, Austria, ²MPI Corporation

EuMC18-1

On parameterized de-embedding: indexing choices and uncertainty implications

Jon Martens¹

INDUSTRIAL KEYNOTE

¹Anritsu

EuMC18-2

Measurement Uncertainty Comparison 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 Poumpouridis¹, 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 Optically Corrected Probing of RF Devices with Different Probe Types

Domenico Vitali¹, Alessandro Chilloco¹, Olof Bengtsson¹, 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 Neshastegaran¹, Wenyao Zhai¹

¹Huawei Technologies Canada Co.

EuMC19-2

Cognitive-Driven EM Optimization 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 Xia², Wing Shing Chan³, Xiaojun Fu⁴, Hao Wu⁴, Manlin Yang⁴

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 Framework 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-PO2

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-PO2-1

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

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

EuMC-PO2-5

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-PO2-9

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

Yewlusew 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-PO2-13

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

Bachar Baridi¹, Guillaume Ducournau², Danneville François¹, Daniel Gloria³
¹IEMN CNRS UMR 8520 - Univ of Lille, ²IEMN CNRS - Univ of Lille, ³STMicroelectronics, 850 Rue Jean Monnet, 38920 Crolles

EuMC-PO2-2

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-PO2-6

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

Javagar Mahendran¹, Manuel Funk¹, Felix Faber¹, Alba Dieguez Alonso², Christian Schulz¹, Nicole Vorhauer-Huget¹, Ilona Rolfes¹, Jan Barowski¹
¹Institute of Microwave Systems, Ruhr University Bochum, Bochum, Germany, ²Otto von Guericke University Magdeburg, ³TU Dortmund

EuMC-PO2-10

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

Xinyue Song¹, Fei Yang², Juncheng Bao², Sen Yan²
¹Xi'an Jiaotong University, ²Xi'an Jiaotong University, ³Shenyang Institute of Automation, Chinese Academy of Sciences

EuMC-PO2-14

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-PO2-3

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-PO2-7

Microfluidic-Integrated Silicon Dielectric Slot Waveguide Sensor for Fluid Characterization

Kristof Dausien¹, Tobias Körner¹, Marcel Burfeindt¹, Paulami Das¹, Martin Hoffmann¹, Ilona Rolfes¹, Jan Barowski¹
¹Ruhr University Bochum, Germany

EuMC-PO2-11

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

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

EuMC-PO2-15

Generalized Quasi-Conformal Transformation Optics

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

EuMC-PO2-4

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-PO2-8

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-PO2-12

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-PO2-16

Accurate Equation-based Model for Schottky Diodes

Boris Dabov¹, Huib Visser², Dusan Milosevic², Hans Pflug²
¹imec Netherlands, ²Eindhoven University of Technology, ³Onward Medical N.V.

WEDNESDAY 11:10 - 12:50

ROOM

Room 1

EuMC20

Phased Array Topologies, Elements, and Wide-Angle Beam Scanning

Chair: Marianna Ivashina¹

Co-Chair: Elmine Meyer²

¹Chalmers University, ²Eindhoven University of Technology

11:10
-
11:30

EuMC20-1

A Wide-Beam Magnetolectric Dipole Antenna for Scan-Loss Reduction in 5.8-GHz Wide-Angle Scanning Phased Arrays

Junhyun Kim¹, Chanhee Lee¹, Ji-Young Kim¹, Ji-Hoon Lee¹, Yun-sung Kim¹, Jong-Won Yu¹

¹KAIST RFSS

11:30
-
11:50

EuMC20-2

Additively Manufactured Dielectric Lens for Extending X-band AESA Radar Field-of-View

Lorenzo Giambuzzi¹, Stefania Franco¹, Fabrizio Andreus¹, Alessia Colasante¹, Philip Lambert², Henrik Ramberg³

¹Rheinmetall Italia S.p.A, ²3DFortify, Inc

11:50
-
12:10

EuMC20-3

Orthogonal-Port Isolation in Wide-Scan Triangular-Lattice Dual-Polarized mmWave Arrays Using Unbalanced-Fed Patch Antennas

Theodoros Pavlidis¹, Artem R. Vilenskiy², Thomas Schäfer³, Ahmed A. Kishk⁴, Marianna Ivashina¹

¹Chalmers University of Technology, ²XPANCEO, ³Satcube AB, ⁴Concordia University

12:10
-
12:30

EuMC20-4

Reducing mutual coupling effects using centered slots array with 3D printed ridged waveguides

Shandipsing Robee¹, Christian Person¹, Anne-Charlotte AMIAUD², Thomas Merlet²

¹IMT Atlantique, France, ²THALES LAS, Elancourt, France

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 Rosta¹, Lorenzo Bastia¹, Tommaso Tiberi¹, Diego Masotti¹, Alessandra Costanzo¹

¹Alma Mater Studiorum - Università di Bologna

Room 4

EuMC21

Millimeter-Wave and THz Photonics Techniques

Chair: Guillaume Ducournau¹

Co-Chair: Andreas Stohr²

¹University of Lille, ²University Duisburg-Essen

EuMC21-1

Ultra Broadband Photonic Vector Network Analyzer Demonstrating a Calibrated D-Band Measurement

Garrit Schwanke¹, Milan Deumer¹, Timo Noack², Thomas Puppe³, Sebastian Müller³, Albrecht Neudecker³, Nico Vieweg³, Lars Liebermeister³, Mehmet Ahad Yurtoglu³, Ramez Askar³, Michael Peter³, Taro Eichler³, Gerd Hechtfisher³, Robert Kohlhas³

¹Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute, HHI, ²Rohde & Schwarz GmbH & Co. KG, ³Optica Photonics SE

EuMC21-2

Enhanced Beam Switching with a Photonic Sub-THz Transmitter for Joint Communication and Sensing

Simon Nellen¹, Garrit Schwanke¹, Sebastian Lauck¹, Milan Deumer¹, Maria C. Santos², Robert Kohlhas³

¹Fraunhofer Heinrich Hertz Institute, ²Universitat Politècnica de Catalunya (UPC)

EuMC21-3

A 3-13 GHz MZM LNA/Driver for Radio-over-Fiber Links in 22-nm CMOS FDSOI

sareh bavandi¹, Jierui Fu¹, Hongwen Yu¹, Kamran Entesari¹

¹TEXAS A&M UNIVERSITY

EuMC21-4

Microwave Frequency Measurement of Multi-Tone Signals Using a Programmable Photonic Processor

Georgios Lymperakis¹, Yu Zhang¹, Xiangfeng Chen¹, Lukas Van Iseghem¹, Iman Zand¹, Hasan Salmanian¹, Joris Van Kerrebrouck¹, Antonio Ribeiro¹, Guy Torfs¹, Wim Bogaerts¹

¹Photonics Research Group IMEC - Ghent University, ²DLab, Ghent University - imec

EuMC21-5

Ultra-stable X-Band Photonic Microwave Source in a 3HU Rack System Achieving Mid-10E-15 Stability

Benjamin Rauf¹, Michele Giunta¹, Marc Fischer¹, Ronald Holzwarth¹

¹Menlo Systems GmbH

Room 6

EuMC22

Biomedical Imaging and Radar Sensing

Chair: Ann Franchois¹

Co-Chair: Changzhi Li²

¹Ghent University, ²Texas Tech University

EuMC22-1

Experimental Validation of a Novel Cavity-Backed Sensor Array for Microwave Breast Imaging

Milad Mokhtari¹, Milica Popović¹, Setareh Eftekhar²

¹McGill University, ²Concordia University

EuMC22-2

Detecting Intracranial Hemorrhage via Wearable Microwave Imaging: Ex Vivo Human Study

Pablo Giaccaglia¹, Nadim Conti¹, Valentina Lidoni¹, Alessia Rosa¹, Valentina Marandici¹, Jody Filippo Capitanio¹, Carmine Antonio Donofrio¹, Antonio Fioravanti¹

¹Rilemo S.R.L., ²IRCCS Ospedale San Raffaele, ³ASST Cremona

EuMC22-3

MRI Receive Coil Based on a Two-Turn Spiral Resonator with 3D-Printed Filament

Matthew Band¹, William Mathieu¹, Milica Popović¹, Reza Farivar¹

¹McGill University

EuMC22-4

Millimeter-Wave Radar-Based Unobtrusive Arrhythmia Classification Using Deep Learning

Yuchen Li¹, Zichen Huang¹, Jie Cao¹, Xiaolei Xu¹, Qishan Chen¹, Li Zhang¹, Changzhan Gu¹

¹Shanghai Jiao Tong University, ²Xinhua Hospital Affiliated to Shanghai Jiaotong University School of Medicine

Room 7

EuMC23

Advanced Power Amplifier Design

Chair: Roberto Quaglia¹

Co-Chair: Filipe Barradas²

¹Cardiff University (UK), ²Instituto de Telecomunicações, Universidade de Aveiro

EuMC23-1

Inverse Design of Compact and Wideband Inverted Doherty Power Amplifiers Using Deep Learning

Han Zhou¹, Haojie Chang¹, David Widén¹, Christian Fager²

¹Tampere University, ²Chalmers University of Technology

EuMC23-2

S-Band Power Amplifier Design Based on a Bare Die Device

Osian Jones¹, Taylor Barton¹

¹University of Colorado - Boulder

EuMC23-3

50-W GaN-on-Si Doherty Power Amplifier at 7 GHz

Alexander Deublein¹, Christian Musloff¹, David Riess¹, Aldo Ruggiu¹, Jan-Felix Etzel¹, Robert Weigel¹, Georg Fischer¹, Norman Franchi¹, Michael Loose¹

¹Institute for Smart Electronics and Systems, Friedrich-Alexander-Universität Erlangen-Nürnberg, ²Infinion Technologies AG, ³Nokia Technology Center Ulm

EuMC23-4

A 915-MHz 1-kW High-Efficiency Continuous-Mode GaN Power Amplifier with In-Package Matching and Diamond-Copper Heat Dissipation

Jian Lu¹, Haoyu Liu¹, Chenglong Li¹

¹Suzhou Watech Electronics Co., Ltd.

EuMC23-5

Planar Ultra-Wideband and High-Efficiency Coaxial-Less GaN High-Power Amplifier

Victor Bregéon¹, Anthony Ghiotto¹, Jose De Oliveira², Christophe Goujon¹, Guillaume Mouginot¹

¹Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France, ²Thales SIX, Le Barp, ³Direction 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 Gong¹, George Goussetis¹, Nuno B. Carvalho², Yuan Ding¹

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

Andrej 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 Shang¹, 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 Masroufi¹, 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, Giancesello Frederic¹, Foissey Ophélie¹, Charbullet Clément¹, Rodriguez Sebastian², Mounayer Jad¹, Chinesta Francisco¹, Bila Stephane³

¹STMicroelectronics, France, ²PIMM Lab, Arts et Métiers Institute of Technology, Paris, France., ³XLIM, University of Limoges

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 Öhlmann², 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 Wölfel¹, 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

EuMC27

Smart Antennas, SatCom Apertures, and Array Characterization

Chair: Akram Alomainy¹

Co-Chair: Qammer H. Abbasi²

¹Queen Mary University of London,

²University of Glasgow

14:10
–
14:30

EuMC27-1
ResNet-based Root-MUSIC for Accurate mmWave DOA Estimation under Gain/Phase Mismatches

Yuval Ginzberg¹, Alon Zuretz¹, Emanuel Cohen¹

¹Technion - Israel Institute of Technology

14:30
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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

14:50
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15:10

EuMC27-3
Multi-Band Antenna Array based on Transparent Decoupling Surface and Low Scattering Antenna

¹, Hung-Wei Wu¹

¹Guangdong Academy of Sciences

15:10
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15:30

EuMC27-4
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

15:30
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15:50

EuMC27-5
A Modular Stripline Series-Fed Antenna Array for Ku-Band Satellite Communications

Ageela Saghir¹, Rossella Gaffoglio², Giuseppe Musacchio Adorisio³, Giorgio Giordanengo⁴

¹Advanced Computing, Photonics & Electromagnetics, Fondazione LINKS, Torino, Italy, ²Fondazione LINKS, Torino, Italy

15:50
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16:10

EuMC27-6
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

¹AESLAN, ²Baskent University, Ankara/Turkey

Room 4

EuMC28

Innovative Additive Fabrication Techniques

Chair: Nicolas Delhote¹

Co-Chair: Talal Skaik²

¹XLIM Research Institute, University of Limoges, Limoges, France, ²Filtronic

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

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 KBAF, Ireland, ²Tyndall National Institute, Cork, T12 R5CP, Ireland, ³Tyndall National Institute, University College Cork, Ireland

EuMC28-3

Additively-Manufactured Coaxial Transmission Lines

Konstantinos Kermanidis¹, Ghassen Brinis², Dimitra Psychogiou¹

¹University College Cork and Tyndall National Institute, ²Stryker

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 Pfahler¹, Christian Carlowitz¹, Gerald Gold¹, Martin Vossiek¹

¹Friedrich-Alexander Universität Erlangen-Nürnberg

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 Bila¹, Pedro Rynkiewicz²

¹Xlim - UMR 7252 - CNRS- Limoges University, ²French space agency (CNES)

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

Room 6

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

EuMC29-1

Antenna Booster Technology Meets Nature: Empowering Forest Resilience through Green Connectivity

Jaume Anguera¹

¹Ignion

EuMC29-2

Nanostructured Optical Superabsorbers for Energy Harvesting, Infrared Emitters, Heat Management in Spacecraft and Mimicking Flat Lensing

José Anguita¹

¹University of Surrey

EuMC29-3

Green Radio Frequency-Free-Space Optics Subsystems Design Considerations for 5G/6G Satellite-Cellular-Wi-Fi Applications

M. Uko¹

¹Manchester Metropolitan University

EuMC29-4

Hybrid Substrates Development for Ultrawideband Transvester-enabled RF/Microwave/Millimetre-wave Transceiver and Transponder Applications

Sunday C. Ekpo¹

¹Manchester Metropolitan University

EuMC29-5

Green Connectivity Solutions for Sustainably Designed and Manufactured Drones and Other Low-Altitude Flying Assets

Balaji Perumal¹

¹Anyra Consultancy Services

Room 7

EuMC30

Digital Linearization Techniques

Chair: Pere L. Gilabert¹

Co-Chair: Anding Zhu (TBC)²

¹Universitat Politècnica de Catalunya,

²University College Dublin

EuMC30-1

Complexity Reduction in RF Power Amplifier Behavioral Models by Zero-Gating

Jorge Muñoz-Bautista¹, Thomas Eriksson¹, Koen Buisman¹

¹Chalmers University of Technology

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

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

EuMC30-4

Spatially-Aware Digital Predistortion of Massive MIMO Transmitters

Mohamed Hamid¹, Omer Gemic¹, David Astely¹, Ulf Gustavsson¹, Sara Hesami¹, Shipra Shipra¹, Thomas Eriksson¹

¹Ericsson AB, ²Chalmers University of Technology

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

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 Électrique 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

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)

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

14:30
–
14:50

EuMC31-2
Nitrogen-Implanted Edge-Terminated β -Ga203 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

14:50
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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

15:10
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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 Kato², Hitoshi Umezawa², Noriharu Suematsu¹

¹Research Institute of Electrical Communication, Tohoku University, ²Ookuma Diamond Device Co., Ltd. Japan

15:30
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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

15:50
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16:10

Room 14

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

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

EuMC32-2

Spatial Dependent Permittivity Determination Using Complex Source Beam Focusing

Irwin Barends¹, 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

EuMC32-3

Complex Permittivity Characterization Using a Backscattering Approach Compatible with Low-loss RF Dielectrics

Mohsen Shafeghati¹, Etienne Perret¹

¹Univ. Grenoble Alpes, Grenoble INP

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

EuMC32-5

A Microwave Oscillator for High Sensitivity Liquid Characterization

Melania St.Cyr¹, Azin Zarrasvand², Negar Reiskarimian¹

¹Massachusetts Institute of Technology, ²Drapier

Room 17

EuMC33

Recent Advances in Electromagnetic Theory and Computational Numerical Techniques

Chair: Alessandro Galli¹

Co-Chair: Anthony Ghiotto²

¹Sapienza University of Rome, ²University of Bordeaux

EuMC33-1

Recent Advances in Vector-Fitting Based Neuro-TF Methods for EM Parametric Modeling

Feng Feng¹, Jimyi Liu¹, Qi-Jun Zhang²

¹Tianjin University, ²Carleton University

EuMC33-2

Practical Application of Randomized Space Mapping

Joaquin Valencia¹, Belén Perelló-García², Francisco Pastor-Naranjo², Jose-Vicente Morro Ros², Marco Guglielmi¹, Vicente Enrique Boria-Esbert²

¹Team (Technical Univ. Valencia), ²Technical university of Valencia

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

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

EuMC33-5

A RT-FDTD Hybrid Framework for Electromagnetic Wave Propagation in Multiscale Environments

Huseyin Kayihan Comert¹, Aristeidis Lampranidis², 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

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 Greig¹
¹Leonardo UK

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

André Hanewinkel¹
¹Hensoldt 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 LBMR Approach to GEO Tracking and Detection

Marco Martorella¹
¹University 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 (LBMR) 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 LBMR 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

EuMC34

RF Exposure Modeling and Characterization of Biological Materials

Chair: Katia Grenier¹

Co-Chair: Micaela Liberti²

¹LAAS-CNRS, ²Sapienza University of Rome

16:50
-
17:10

EuMC34-1

The pros and cons of the scanning field probe and infrared imaging methods for APD evaluation

Massinissa ZIANE¹, Lukman HENDRAJAYA², Maxim Zhadobov³, Artem BORYSKIN⁴

¹NOKIA, ²IETR - UMR CNRS 6164 - UNIVERSITÉ DE RENNES, ³WAVELIS

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 Ghassabi¹, Giulia Risca¹, Martina Persechino¹, Shivangi Shukla², Heungjae Choi³, Catrin F. Williams², Francesca Apollonio⁴, Micaela Liberti⁵

¹Sapienza University of Rome, ²Cardiff University

17:30
-
17:50

EuMC34-3

Surface-Wave Skin Characterization with a Flexible Vivaldi Antenna: Experimental Validation

Shangyang Shang¹, Milad Mokhtari¹, Milica Popovic¹

¹McGill University

17:50
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18:10

EuMC34-4

Electric-Field Probe Design for Microwave-Based Non-invasive Leukemia Detection

Koyuki Makabe¹, Masaya Tamura¹

¹Tohohashi University of Technology

18:10
-
18:30

Room 7

EuMC35

Load-Modulated Power Amplifiers

Chair: José Carlos Pedro¹

Co-Chair: Anna Piacibello²

¹Universidade de Aveiro - IT, ²Politecnico di Torino

EuMC35-1

Multi-Subharmonic Switching Driving for GaN Digital Class-E Doherty Power Amplifiers

Deguang Sun¹, Giulia Bartolotti², Anna Piacibello², Vittorio Camarchia², Andreas Wentzel¹

¹Ferdinand-Braun-Institut, ²Politecnico di Torino

EuMC35-2

A 4-6 GHz GaN MMIC Switchless-Class-G Power Amplifier Mitigating Gain and Efficiency Collapse at Saturation

Shun Wan¹, Guansheng Lv², Wenhua Chen¹, Dehan Wang², Wenming Li²

¹Tsinghua university, ²Beijing Institute of Technology, China, ³ZTE Corporation

EuMC35-3

A 2-GHz 150W Load-modulated PA Achieving Above 50% Efficiency Across 20-dB Back-Off Range

Wang Liu¹, Luis Côtimos Nunes², Filipe Barradas², Pedro Miguel Cabral², José Carlos Pedro¹, Qiang Liu¹

¹College of Electrical and Information Engineering, Hunan University, Changsha, China, ²Instituto de Telecomunicações, Universidade de Aveiro

EuMC35-4

Compact Low-Cost Three-Stage Load-Modulated Power Amplifier Design Using Generalized Coupler

Pengyu YU¹, Kwok-Keung Michael Cheng¹

¹The Chinese University of Hong Kong

EuMC35-5

A Q-Band GaN Doherty-Like OLMBA with Single RF Input

Daje Weber-Trebesch¹, Christian Friesicke¹, Leon Hertle¹, Thomas Maier¹, Fouad Benkhelifa¹, Rüdiger Quay¹

¹Fraunhofer IAF, Fraunhofer Institute for Applied Solid State Physics

Room 14

EuMC36

Advanced Characterization of RF Devices and Systems

Chair: Mauro Marchetti¹

Co-Chair: Marco Spirito²

¹Maury Microwave, ²Delft University of Technology

EuMC36-1

Dynamic Range Comparison of SFCW and FMCW Waveforms for Vector Network Analysis

Ali Al-Tayar¹, Justin Romstadt², Vincent Lange-Nowak², Nils Pohl², Ilona Rolfes², Jan Barowski¹

¹Institute of Microwave Systems, Ruhr University Bochum, ²Institute of Integrated Systems, Ruhr University Bochum

EuMC36-2

Development and Experimental Validation of an SDR-Based Near-Field Measurement System for 5G mmWave Antennas

Kazuha Ito¹, Kazuhiro Fujimori¹, Takuma Akada¹, Yuhi Akiyama¹, Toshiyasu Tanaka²

¹Graduate School of Natural Science and Technology, Okayama University, ²T&A Co., Ltd.

EuMC36-3

Characterization of High-Power RF Saturation in UTC-PDs Using a Pulsed-Laser Measurement Technique

amirmohammad miran zadeh¹, Nikolaos Poupouridis², Andrea Pertoldi³, Florian Emaury², Sara Hamzeloui¹, Rinchen Choki Bhutia¹, Olivier J. S. Ostinelli⁴, Colombo R. Bolognesi⁵

¹ETHZ, ²Menhir Photonics

EuMC36-4

A Temperature-Controlled Noise Parameter Measurement Framework for Low-Frequency Lunar-Based Radio Telescopes

Luuk Kool¹, Rehan Akmal¹, David Prinsloo², Elmire Meyer¹, Ulf Johannsen¹

¹TUe, ²ASTRON Netherlands Institute for Radio Astronomy

EuMC36-5

Wafer-Level Cryogenic Noise Parameters Measurement System

Daniil Frolov¹, Jean-Olivier Plouchart¹, Utku Soyulu¹

¹IBM T. J. Watson Research Center

Room 17

EuMC37

Antenna/Metasurfaces Design and Imaging Techniques

Chair: Jakub Sorocki¹

Co-Chair: Nicolò Delmonte²

¹AGH University of Science and Technology, ²Dept. of Electrical, Computer and Biomedical Engineering, University of Pavia

EuMC37-1

Propagation-Compensated Fourier Neural Operator for High-Resolution Near-Field Reconstruction

Hyunlin Lee¹, Wonhyo Kim¹, Chilhyun Cho², Youngwook Kim¹

¹Sogang University, ²Korea Research Institute of Standards and Science (KRISS)

EuMC37-2

Formulas for the Reflection Phase in THz Devices based on Homogenized Metasurfaces

Stella Ventucci¹, Stella Ventucci¹, Edoardo Negri², Paolo Burghignoli¹, Dimitrios Zografopoulos³, Walter Fuscaldo⁴, Alessandro Galli¹

¹Sapienza University of Rome, Italy, ²CNR-IMM, Consiglio Nazionale delle Ricerche, Rome, Italy, ³Aristotle University of Thessaloniki, GR, Thessaloniki

EuMC37-3

A Self-Inclusive Polarimetric Finite-Array Coupling Network for Scan-Dependent Active Reflection Coefficient Prediction

Jeff Massman¹

¹Analog Devices Inc.

EuMC37-4

AlphaGo for Antennas: a Generative Machine Learning Framework for Inverse Topology Synthesis and Optimization of Planar Antennas

Xiaobo Wang¹, Moein Nazari, Suomin Cui, Gang Kang, Jiang Zhu, Djordje Tujkovic, Zhongde Wang, Jian Liu

¹Cadence Design Systems

EuMC37-5

PPW-Based Decoupling Technique for the Analysis of Integrated Lens Antennas

Erik Speksnijder¹, Riccardo Ozzola¹, Andrea Neto¹

¹Delft University of Technology, The Netherlands

WEDNESDAY 16:50 – 18:30

ROOM

Room 1

EuRAD02

Enabling Technologies for Novel Sensing Systems

Chair: Michail Antoniou¹

Co-Chair: David Greig²

¹University of Birmingham, ²Leonardo UK

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

17:10
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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.

17:30
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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

17:50
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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

18:10
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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 Girbau Sala², Antonio Ramon Lazaro²

¹Universitat Rovira i Virgili, ²Universidad Rovira i Virgili

Room 6

EuRAD03

Advanced Automotive Radar Signal Processing

Chair: Igal Bilik¹

Co-Chair: Kamel Haddadi²

¹Ben-Gurion University of the Negev, ²University of Lille, CNRS / IEMN

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)

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)

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 Borkessel¹, Matthias A. Hein¹

¹Technische Universität Ilmenau

EuRAD03-4

Bumper Reflection Mitigation for Automotive Radar

Filip Alexandru Rosu¹, Gabriela Enescu¹, Andrei Anghel¹, Silviu Ciocina²

¹NXP Semiconductors, ²National University of Science and Technology POLITEHNICA Bucharest

EuRAD03-5

Robust DoA Estimation Based on SBL under Practical Error Factors in Automotive Radar

Tepppei Yoshida¹, Shingo Jinno¹, yoshie kobayashi¹, Yufeng Fu¹, Sungwoo Cha¹

¹MIRISE Technologies Corp.

Room 13

EuRAD04

AI-Based Enhancement of Radar Data

Chair: Marina Gashinova¹

Co-Chair: Victoria Nockles²

¹University of Birmingham, ²The Alan Turing Institute

EuRAD04-1

X-Band SAR Semantic Segmentation for Scenario Recognition in Cognitive Radar Systems

Amir Hosein Oveis¹

¹RaSS Center - CNIT

EuRAD04-2

PINN-Inspired Unsupervised SAR Despeckling with Pixel-Wise Adaptive Weighting

Seunghui Jang¹, Yeonjae Kim¹, Youngwook Kim¹

¹Sogang University

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

EuRAD04-4

Deep Unfolded Gridless Sparse Recovery without Convex Relaxation for Bistatic Airborne Radar Clutter Suppression

Weijun Huang¹, Tong Wang¹, Weichen Cui²

¹National Key Laboratory of Radar Signal Processing, ²State Key Laboratory of Aerospace Intelligent Control Technology

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 Hanham ¹ Co-Chair: Kamil Yavuz Kapusuz ² ¹ Imperial College London, London, UK, ² imec	EuMC39 Design and Characterization Techniques Chair: Bahare Mohamadzade ¹ Co-Chair: Dimitra Psychogiou ² ¹ CSIRO, ² University College Cork and Tyndall National Institute	EuMC40 LNAs, Phase Shifters, and Frequency Multipliers Chair: Nils Weimann ¹ Co-Chair: Almudena Suarez Rodriguez ² ¹ University of Duisburg Essen, ² Universidad de Cantabria	EuMC41 Reconfigurable and MIMO Antennas Chair: Bart Smolders ¹ Co-Chair: Xiaoming Chen ¹ Eindhoven University of Technology (TU/e)
08:30 - 08:50	EuMC38-1 A Flipped 3D-Printed Bulls Eye Antenna with Dielectric-Filled Metal Grooves Frederike Bartels ¹ , Dominik Langer ¹ , Sarah Klass ¹ , Alexander Kölpin ¹ ¹ Institute 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 Joy ¹ , Muhammad Faisal Bashir ¹ , Thomas Vob ¹ , Jens Lehmann ¹ , Domke Jörg ¹ , Sascha Mehl ¹ , Elizabeth Bekker ² , Akanksha Bhutani ² , Matthias Wietstruck ² ¹ Leibniz-Institut für innovative Mikroelektronik, ² Karlsruhe Institute of Technology	EuMC40-1 Comparative Study of Residual Phase Noise Performance for various frequency Doubler Architectures Irfan Ashiq ¹ , Nicholas El-Takach ² , Sushil Kumar ² ¹ National Instruments, ² NI/Emerson	EuMC41-1 Tunable RF-Frontend UE Architecture Design Methodology for Beyond 5G System Ji-Young Kim ¹ , Sungjun Cho ¹ , Yeong-Ju Seo ¹ , Chanhee Lee ¹ , Haechan Kang ¹ , Jong-Won Yu ¹ ¹ Korea 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 Ghosh ¹ , Gopika Reghunadhan ² , SWARNAD-IPTO GHOSH ² , Chimmy Saha ² , Okan Yurduseven ¹ ¹ Queen's University Belfast, ² Indian 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 Rizqi ¹ , Guilherme Theis ² , Yanki Aslan ¹ ¹ TU Delft, MS3 / Robin Radar Systems, ² Robin Radar Systems, ³ TU Delft, MS3	EuMC40-2 Linearly Controlled Phase Shifter using Folding Circuits with Polarity Reversal Switches Yotaro Mune ¹ , Anji Miura ¹ , Fuka Kamei ¹ , Hideyuki Nosaka ¹ ¹ Ritsumeikan University	EuMC41-2 Rotating Polarization Multiplexing toward Single-Antenna MIMO Systems Takashi Maehata ¹ , Eiji Mochida ¹ ¹ Sumitomo Electric Industries Ltd. Japan
09:10 - 09:30	EuMC38-3 E-Band Fully Metallic Frequency-Scanning Slotted-Waveguide Antenna for Automotive Radar Ferran Zafrilla-Magraner ¹ , Alejandro García-Tejero ¹ , Miguel Ferrando-Rocher ² , Jose I. Herranz-Herruzo ² , Francesco Merli ¹ ¹ HUBER-SUHNER AG, ² Team - Universitat Politècnica de València	EuMC39-3 Design of an Ultra-Wideband Plane Wave Generator for Low-Frequency Antenna Measurements Xinzhong Li ¹ , Jungang Miao ¹ ¹ Beihang University (BUA)	EuMC40-3 A Frequency-Reconfigurable Filtering Low-Noise Amplifier for 5G New Radio Refarming Bands Ruipeng Zhang ¹ , Jiteng Ma ¹ , Qufei Qian ¹ , Xiaoliang Gu ¹ , Andrew C. M. Austin ¹ ¹ University of Bristol	EuMC41-3 Reconfigurable Circularly Polarized Antenna Array with Reconfigurable Scattering Characteristics Jiachen Wu ¹ , Yuchen Gao ¹ , Wen Jiang ¹ , Jie Liu ¹ ¹ Xidian University
09:30 - 09:50	EuMC38-4 Analysis of a Simple Surface Wave Guiding Method and Application to Planar Leaky-Wave Antennas Qifeng Shen ¹ , Sadia Riaz ² , Alois Freundorfer ² , Symon K. Podlichak ¹ , Yahia Antar ¹ ¹ The University of Edinburgh, ² Queen's University, ³ The Royal Military College of Canada	EuMC39-4 Vector Spherical Harmonics Reconstruction of Active Phased Array Radiation Patterns from Sparse Measurements Máté László Iványi ¹ , Tworit Dash ¹ , Yanki Aslan ¹ , Marco Spirito ¹ , Claire Migliaccio ¹ , Jean-Yves Dauvignac ² , Laurent Brochier ² , Alexander Yarovy ¹ ¹ Delft University of Technology, ² University Cote d'Azur	EuMC40-4 Variable Gain Phase Shifter Using Folding Circuits with Gilbert Cell Multipliers Ryuma Naruki ¹ , Yotaro Mune ¹ , Anji Miura ¹ , Fuka Kamei ¹ , Hideyuki Nosaka ¹ ¹ Ritsumeikan University	EuMC41-4 Reconfigurable All-Digital Transmitter with Multi-User Support and FPGA-based Beamforming Ricardo Nunes ¹ , Luis Almeida ¹ , Tiago Varum ¹ , Arnaldo Oliveira ¹ ¹ Universidade de Aveiro / Instituto de Telecomunicações
09:50 - 10:10	EuMC38-5 Preliminary Design of Ultrawideband Flat Leaky Lens Erik Speksnijder ¹ , Cesare Tadolini ¹ , Paolo Sberna ¹ , Riccardo Ozzola ¹ , Andrea Neto ¹ ¹ Delft 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 Trovarello ¹ , Michele Cocchi ¹ , Giulia Battistini ¹ , Diego Masotti ¹ , Alessandra Costanzo ¹ ¹ University 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 Huang ¹ , Quan Pan ¹ , Xiaohu Fang ¹ ¹ Southern 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 Kang ¹ , Young-Jun Lim ¹ , Hyeon-Jeong Cho ¹ , Sungjun Cho ¹ , Yeong-Ju Seo ¹ , Jong-Won Yu ¹ ¹ Korea 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 Kumar ¹ , Amit K Singh ¹ , Aakash Bansal ¹ , William Whittow ² ¹ Indian Institute of Technology, Patna, ² Loughborough University, Loughborough	EuMC39-6 Dual-Polarized Dynamic Metasurface Antenna Based on Degenerated Modes Vitor Carvalho de Almeida ¹ , Ramez Askar ¹ , Michael Peter ¹ , Wilhelm Keusgen ¹ ¹ Fraunhofer Heinrich Hertz Institute, ² Technische Universitaet Berlin	EuMC40-6 A 2.5-3.5 GHz Active Cold Noise Source Joseph Dunbar ¹ ¹ Univ. of Colorado, Boulder	EuMC41-6 Compact, Wideband, Circularly-Polarized Reconfigurable Metasurface Antenna Zhentian Wu ¹ , chen chen ¹ , Xiaoming Chen ¹ , Xin Fang ¹ ¹ Anhui University

THURSDAY 08:30 - 10:30

ROOM

Room 13

EuMC42

Reconfigurable Intelligent Surfaces

Chair: María García-Viguera¹Co-Chair: Esteban Menargues²¹IETR, INSA Rennes, ²Swissto12 SA

Room 17

EuMC43

Advanced Millimeter-Wave and Sub-THz Sensing, Imaging, and Communication Systems

Chair: Alexander Kölpin¹Co-Chair: Fabian Lurz²¹Hamburg Uni. of Technology, ²Otto-von-Guericke Uni. Magdeburg

Room 4

EuRAD05

Advanced Automotive Radar Signal Processing

Chair: Kamel Haddadi¹Co-Chair: Anum Pirkani²¹University of Lille, CNRS / IEMN, ²The University of Birmingham

Room 8

EuRAD06

Radar System Simulators

Chair: Hugh Griffiths¹Co-Chair: Martin Vossiek²¹University College London, ²Friedrich-Alexander University Erlangen-Nürnberg (FAU)08:30
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08:50EuMC42-1
Demonstration of Coverage Area Expansion by a Morphic RIS Using an Elastic Substrate at 140 GHz BandAtsushi Sanada¹¹The University of Osaka, JapanEuMC43-1
All-Electronic 240 Gbps Over-the-Air Communication Link Demonstration at 300 GHzBenjamin Schoch¹, Simon Haussmann¹, Lukas Gebert¹, Aleks Dyskin², Elad Mentovich³, Axel Tessmann⁴, Jean-Pierre Teyssier⁵, Ingmar Kallfass⁶¹Institute of Robust Power Semiconductor Systems (ILH), University of Stuttgart, ²NVIDIA, ³Fraunhofer Institute for Applied Solid State Physics (IAF), ⁴Keysight TechnologiesEuRAD05-1
Tracking-aided Ego-motion Estimation for Automotive MIMO RadarTaoyue Wang¹, Sen Yuan¹, Alexander Yarovoy¹, Francesco Fioranelli¹¹TUDELFTEuRAD06-1
Measurement-based Enhanced Digital Radar Twin for High-fidelity Radar SimulationOliver Sura¹, Patrick Fenske², Desar Mejdani¹, Peter Mergenthaler¹, Max Heidbrink¹, Tim Pfahler¹, Marcel Hoffmann¹, Martin Vossiek¹¹Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg, ²fiveD GmbH08:50
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09:10EuMC42-2
Experimental Validation of a Ka-Band VQ2-Switched RIS Unit Cell with Embedded Bias Routing and Beam-Steering DemonstrationÁfsaneh Hojjati-Firoozabadi¹, Raafat R. Mansour¹¹University of WaterlooEuMC43-2
Ku-Band Satellite Signals for Rain Rate Estimation: Performance Limits and 215-Link ValidationHaofan Dong¹, Ozgur B. Akan¹¹University of CambridgeEuRAD05-2
Motion-Adaptive 360° Multi-Radar Imaging Using Self-Sustained Doppler Beam SharpeningMax Heidbrink¹, Marc Reinecke¹, Oliver Sura¹, Martin Vossiek¹¹Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-NürnbergEuRAD06-2
Point-to-Point: Optimizing Radar Models via Attribute-Sensitive Metrics to Bridge the Reality GapMarkus Schmidt¹, Agnes Widera², Sarah Neugebauer¹, Moritz Kahlert¹, Claas Tebrügge¹, Torsten Bertram¹¹HELLA GmbH & Co. KGaA, ²RWTH Aachen University, Germany, ³TU Dortmund University, Germany09:10
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09:30EuMC42-3
Over-the-Air Characterization of a Reconfigurable Intelligent Surface Using Time-Domain GatingGiovanni Lasagni¹, Marco Badii¹, Stefano Maddio¹, Stefano Selloni¹, Monica Righini¹, Giovanni Colodi¹, Alessandro Cidronali¹¹Università degli Studi di FirenzeEuMC43-3
PMMW Imaging of Ship Turbulent Wake: Simulation and Measurement VerificationHuimin Xiong¹, Yayun Cheng¹, Kunmiao Huang¹, Nannan Wang¹, Jiahui Fu¹¹Harbin Institute of TechnologyEuRAD05-3
Improved Range Separability and Maximum Velocity for Automotive FMCW Radar via Frequency-Stepped ChirpAlexandru Girdianu¹, Filip Alexandru Rosu¹, Andrei Anghel¹¹NXP Semiconductors, ²Research Center for Spatial Information- CEOSpaceTech, Politehnica University of BucharestEuRAD06-3
Validation of SARCASTIC v2.0 Simulated Synthetic Aperture Radar Data Against Digitally Twinned Laboratory MeasurementsMichael Woollard¹, Daniel Andre², Hugh Griffiths¹, Matthew Ritchie¹¹University College London, ²Cranfield University, UK09:30
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09:50EuMC42-4
A 28-GHz Reconfigurable Intelligent Surface with Continuous Phase Control: Implementation and Experimental ValidationSpandan Manna¹, Florian Reher¹, Karim El Isa¹, Amar Al-Bassam², Dirk Heberling¹¹Institute 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 MonitoringBatuhan Sutbas¹, Vladica Sark¹, Yanhua Zhao¹, Aysel Ecem Bezer², Uwe Maaß³, Alexander Gäbler⁴, Robert Holzschuh⁵, Hui Lu⁶, Mohamed Hussein Eissa⁷, Wolfgang Heinrich⁸, Corrado Carta⁹, Gerhard Kahmen¹⁰¹IHP Leibniz-Institut für Innovative Mikroelektronik, ²Fraunhofer IZM, ³Medizinische Universität Lausitz - Carl Thiem, ⁴Brandenburgische Technische Universität, ⁵Ferdinand Braun Institut (FBH), ⁶Technische Universität BerlinEuRAD05-4
A Generic Virtual-Transmitter Decoder for Velocity Disambiguation in DDMA MIMO FMCW RadarLéa Volpin¹, Bertrand Le Gal¹, Guillaume Ferré², Dominique Delbecq¹¹IMS Bordeaux / NXP Semiconductors, France, ²IRISA Rennes, ³IMS Bordeaux, ⁴NXP Semiconductors, FranceEuRAD06-4
From Lidar Point Clouds to Semi-Synthetic Radar Representations in Automotive ScenesAvinash Nittur Ramesh¹, Aitor Correias-Serrano¹, Maria A. Gonzalez Huiji¹¹Fraunhofer FHR09:50
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10:10EuMC42-5
Non-line-of-sight Multi-Polarization 802.15.3d Link enabled by RISDutin Frédéric¹, Rita Younes¹, Pascal Szriftgiser¹, Victor Torres², Jorge Teniente³, Itziar Maestrujoán Biurrun⁴, Chun-Lan Qin⁵, Greg Jue⁶, Guillaume Ducournau⁷¹Univ. Lille, ²Public University of Navarre, ³Keysight TechnologiesEuMC43-5
A low-complexity Range-Dependent Resampling Technique for Accurate Large-Scale Motion Sensing Based on FMCW Radar SystemsYiyan Cao¹, Jiayu Zhang¹, Changzhan Gu¹¹Shanghai Jiao Tong UniversityEuRAD05-5
OFDM Radar Processing Scheme with Improved Robustness to Off-Grid Doppler Frequency ShiftRuoyu Feng¹, Marc Bauduin¹, André Bourdoux¹¹imecEuRAD06-5
ARIFOMA: A Traffic-Driven Simulation Framework for Automotive Radar Interference EvaluationArianit Preniqi¹, Oliver Lang¹, Stefan Schmalz², Reinhard Feger¹¹Johannes Kepler University Linz, ²Infinion Technologies AG10:10
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10:30EuMC42-6
A 140-GHz GaAs MMIC Reconfigurable Metasurface With Hot-Via Interconnects for Scalable RIS ImplementationShuping Li¹, Yi-En Kao², Yu-Hsiang Cheng³, Jung-Tao Chung², Chung-Tse Michael Wu²¹Rutgers University, ²National Taiwan University, ³Win SemiconductorsEuMC43-6
Solving Beam-Compensated Sub-THz Volumetric Imaging via Differentiable ProgrammingLukas Furtmüller¹, Philipp Plöckinger¹, Reinhard Feger¹¹Johannes Kepler University LinzEuRAD05-6
Interference Detection Method for Automotive RadarGabriela Enescu¹, Filip Alexandru Rosu¹, Adriana Brigalda¹, Pavel Agrigoroaei¹, David Bethge¹¹NXP SemiconductorsEuRAD06-6
A Modular Simulation Architecture for C-UAS EvaluationTim Kinnunen¹, Per Grahn¹, Johan Appelgren¹, Tommy Johansson¹, Fredrik Näsström¹¹Swedish 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
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08:50

EuRAD07-1
Learned Pre-Distortion of Diverse Radar Waveforms

Amos Hebb¹, Alexander Yarovoy¹, Francesco Fioranelli¹
¹Delft University of Technology

08:50
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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
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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 (ISF-UL), ²Instituto Superior de Engenharia de Lisboa, ³Instituto Superior Técnico

09:50
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10:10

EuRAD07-5
Deep Learning for Narrowband Inter-Radar Interference Mitigation with Hardware Impairments

Yudai Suzuki¹, Xiaoyan Wang², Masahiro UMEHIRA¹, Hao Zhou²

¹Ibaraki University, ²University of Science and Technology of China

10:10
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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 Yarovoy¹, 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

Chaima CHABBAT¹, Abdelmadjid 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 Alimov², 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

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

EuRAD-PO1-4

Sparse Estimation for the Detection of Multiple Scatterers in SAR Tomography

Pia Addabbo¹, Diego Reale¹, Antonio Paucillo², Gianfranco Fornaro², Danilo Orlando²

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 Myers³

¹TU Delft, ²NXP, ³TU Delft

EuRAD-PO1-16

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

Gabriel Schnoering¹, Halil Durmus²

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 Kapusuz¹

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

Md Abu Sufian¹, Dowon Lee¹, Keunhoo 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 Chen¹, 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 Adorasio¹, Rossella Gaffoglio¹, Giorgio Giordanengo¹, Fabio Morgia², Francesco Verni³, 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 Abueffadif¹, 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, Leiyuan Qin², Wei Hu³, 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 SEYEDMASOUMIAN¹, Maede Chavoshi¹, Tomislav Markovic¹, Bart Nauwelaers¹, 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 Carpintero²

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 Schorlemmer¹, Birk Hattenhorst², Marcel van Delden¹, Ilona Rolfes¹, Thomas Musch¹

¹Ruhr University Bochum, Germany, ²2pi-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 Kalfass⁸

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

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

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

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

11:50
-
12:10

EuRAD08-3

Attitude and Rotational Ego-motion estimation for Air Taxis using Automotive MIMO Radar

Vignesh Gopalan Jeyaraman¹, Gunnar Briese¹, Patrick Wallrath¹

¹Fraunhofer Institute for High Frequency Physics and Radar Techniques (FHR)

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 Kauffmann⁵, 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

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

Room 8

EuRAD09

Direction of Arrival Estimation

Chair: Laura Anitori¹

Co-Chair: Reinhard Feger²

¹CNIT RASS, ²Johannes Kepler University Linz

EuRAD09-1

Resilient Radar Target Resolvability in Narrow Angular Sectors via Dual-Regularized IAA

Ryuhei Takahashi¹, Tsubasa Terada¹, Hassan Mansour¹, Petros Boufounos²

¹Mitsubishi Electric Corporation, ²Mitsubishi Electric Research Laboratories

EuRAD09-2

Circular Arc Array Design for Peak Sidelobe Level Minimization in Wide-FOV Radar Systems

Masoud Dorvashi¹, Oliver Lang², Reinhard Feger¹

¹Johannes Kepler University Linz - JKU

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

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

EuRAD09-5

Synthetic Aperture Based Ghost Image Suppression for Sparse Array Millimeter Wave Radar

Seungjae Lee¹, Shouhei Kidera¹

¹The University of Electro-Communications

Room 12

EuRAD10

AI for Detection, Tracking and Multi-Modal Perception

Chair: Stephen Harman¹

Co-Chair: Leo Zeitler²

¹Thales UK, ²The Alan Turing Institute

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.

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

EuRAD10-3

Self-supervised training of a detector with airborne maritime radar data

Christian Blackman¹, Murat Uney², Yalin Zheng¹, David Greig¹

¹University of Liverpool, ²University of Edinburgh, ³Leonardo UK

EuRAD10-4

Improving Adverse Weather Detection through Radar-Centric Early Fusion with Lidar Features

Christof Leitgeb¹, Thomas Puchleitner¹, Daniel Watzzenig¹

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

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.

Room 15

EuRAD11

Special Session EMSIG – The UK Radar Society and UK Radar Ecosystem

Chair: Carmine Clemente¹

Co-Chair: Darren Coe²

¹University of Strathclyde, ²QinetiQ

EuRAD11-1

The EMSIG and its activities in the UK

Carmine Clemente¹

¹University of Strathclyde

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

THURSDAY 14:10 - 16:10

ROOM Room 17

EuMC/EuRAD01

Special Session UKRI/EPSRC Selected Research Projects in mmWave and THz Research

Chair: Djuradj Budimir¹

¹University of Westminster

14:10 - 14:25 **EuMC/EuRAD01-1**
Transmission Channels Measurements and Communication System Design for Future MM-wave Communications (mm Wave TRACCS)

Izzat Darwazeh¹

¹University College London

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

14:40 - 14:55 **EuMC/EuRAD01-3**
On-wafer microwave metrology for future industrial applications (On-Micro)

Zhirun Hu¹

¹University of Manchester

14:55 - 15:10 **EuMC/EuRAD01-4**
Beyond-Diagonal Reconfigurable Intelligent Surfaces

Bruno Clerckx¹

¹Imperial College London

15:10 - 15:25 **EuMC/EuRAD01-5**
Microplastic sensors based on terahertz metasurface

SaeJune Park¹

¹Queen Mary University of London

15:25 - 15:40 **EuMC/EuRAD01-6**
Active intelligent Reconfigurable surfaces for 6G wireless Communications (AR-COM)

Qammer H. Abbasi¹

¹University of Glasgow

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

Room 6

EuMC48

Channel Characterization and OTA Testing

Chair: Marianna Ivashina¹

Co-Chair: Alexander Kölpin²

¹Chalmers University, ²Hamburg University of Technology

14:10 - 14:30 **EuMC48-1**
Photonic Vector Network Analyzer for Agile Channel Sounding Across the Sub-THz Spectrum

Ramez Askar¹, Garrit Schwanke¹, Timo Noack², Nico Vieweg³, Thomas Puppe³, Sebastian Müller⁴, Albrecht Neudecker⁵, Robert Kohlhas⁶, Michael Peter⁷, Gerd Hechtischer⁸, Taro Eichler⁹

¹Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute, HHI, ²Rohde & Schwarz GmbH & Co. KG, ³Optica Photonics SE

14:30 - 14:50 **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 Eichler³

¹Fraunhofer Heinrich Hertz Institute, ²Technische Universität Berlin, ³Rohde & Schwarz

14:50 - 15:10 **EuMC48-3**
Blind Maximum Ratio Combining via Second-Order Statistics under Unequal Noise Powers

Constantin Wimmer¹, Marco Krondorf¹

¹HTWK Leipzig

15:10 - 15:30 **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

15:30 - 15:50 **EuMC48-5**
Characterization of a Fully Integrated 100GHz Electronic Beamsteering Gap-Waveguide Phased-Array Front End in Reverberation Chamber

Pavlo Krasov¹, Viktor Chernikov¹, Magnus Franzén², Stefano Vindemio², Lawrence Moore³, Anders Fransson⁴, Marianna Ivashina¹

¹Chalmers University of Technology, ²Bluetest AB, ³Ericsson AB

15:50 - 16:10 **EuMC48-6**
Antenna Array Embedded Element Efficiency Measurements Using Reverberation Chamber

Yared Leul Hagos¹, Thijs Brouwers², Tudor Popa², Bart Smolders², Diego Caratelli³, Sander Bronckers⁴

¹Eindhoven University of Technology (TU/e), ²The Antenna Company

Room 7

EuMC49

Front-End and Transceiver Modules, System-in-Package Technologies

Chair: Franco Ramirez¹

Co-Chair: Cristina Andrei²

¹Universidad de Cantabria, ²Brandenburg Technical University Cottbus-Senftenberg

EuMC49-1
A Hybrid CMOS/GaAs D-band Multi-Channel RX System-in-Package

Abdelaziz Hamani¹, José-Luis González-Jiménez², Florent Gamand³, Vincent Gidel⁴, Alexandre Siligaris⁵, Guillaume Ducournau⁶, Francesco Foglia Manzillo⁷, Antonio Clemente⁸, Renaud MOUROT⁹, Eric MERCIER¹⁰, Emmanuel Froger¹¹, Christophe Gaquiere¹², Michel Ramez¹³

¹University of Grenoble Alpes, ²MC2-Technologies, ³University of Lille, ⁴Nokia, ⁵EPROM

EuMC49-2
Enabling Circuits for 6G FR3 RF Front-End Modules

Florinel Balteanu¹

¹Skyworks Solutions Inc.

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 Suematsu²

¹Research Institute of Electrical Communication, Tohoku University

EuMC49-4
Packaged High Power broadband Front-End for Q-band 36-42GHz 5G TN & NTN solutions

Mohammed Ayad¹

¹United Monolithic Semiconductors SAS

EuMC49-5
An All-Digital Frequency-Agile RF-PWM Modulator for Software-Defined Transmitters

Deguang Sun¹, Andreas Wentzel¹

¹Ferdinand-Braun-Institut

EuMC49-6
Novel GaN-based Full-Duplex Front-End Topology

Valerie Fetzner¹, 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 Hochfrequenztechnik (FBH)

Room 13

EuMC50

Periodic and Quasi-Periodic Structures

Chair: Maria Garcia-Vigueras¹

Co-Chair: Guillaume Ducournau²

¹IETR, INSA Rennes, ²University of Lille

EuMC50-1
Compact and Asymmetric Dipole Antenna Array Exhibiting High Mutual Coupling via Leaky-Wave Radiation Behavior

Jae-Yeong Lee¹, Jae-Yeong Lee², Taehyung Kim³, Wonbin Hong⁴

¹Electronics and Telecommunications Research Institute (ETRI), ²University of Science and Technology, Korea, ³ANSYS Korea, ⁴Pohang University of Science and Technology (POSTECH)

EuMC50-2
Reflective Surfaces in D Band on Quartz and PET substrates

Dylan Leborgne¹, Amani Cherif¹, Mohamed Hindi¹, Frederic Dufin¹, Guillaume Ducournau², Olivier Lafond³, Xavier Castel⁴, Ronan Sauleau¹

¹Institut d'Electronique et des Technologies du numérique - Université de Rennes, ²IEMN - CNRS 8520

EuMC50-3
Design Method of Topological Waveguides Using Two 2-D Hexagonal Distributed Transmission Line Models

Hayato Osuna¹, Tsutomu Nagayama¹, Seiji Fukushima¹, Toshio Watanabe¹

¹Kagoshima University

EuMC50-4
Metallo-Dielectric Hard-Soft EBG Structure for E-band Automotive Radar Applications

Felix Liu¹, Alejandro Garcia-Tejero², Oskar Zetterström³, Oscar Quevedo-Teruel⁴, Francesco Meri⁵

¹HUBER+SUHNER AG, KTH - Royal Institute of Technology, ²HUBER+SUHNER AG, ³KTH - Royal Institute of Technology

EuMC50-5
Design of Plasma-Enabled Reconfigurable Electromagnetic Absorbers

Krushna Kanth Varikuntla¹, Okan Yurduseven², Babar Abbasi Muhammad Ali²

¹Queen's University Belfast, ²Queen's University Belfast

EuMC50-6
Tunable Waveguide Bragg Filter using Liquid Crystal Filled Unit Cells

Tobias Bader¹, Simon Pietschmann², Gerald Gold¹

¹Friedrich Alexander University of Erlangen-Nürnberg, ²Friedrich-Alexander-Universität Erlangen-Nürnberg

THURSDAY 14:10 – 16:10

ROOM

Room 1

EuRAD12

Joint Sensing and Communications

Chair: Matthew Ritchie¹

Co-Chair: Faruk Uysal²

¹University College London, ²TNO

14:10
–
14:30

EuRAD12-1

Performance Improvement of OFDM-Based Forward Scatter Radar using Golay Codes: Experimental Validation

Abdollah Ajourloo¹, Andrea Quirini¹, Fabiola Colone¹, Pierfrancesco Lombardo¹

¹Sapienza University of Rome

14:30
–
14:50

EuRAD12-2

Multibeam Sensing with Dedicated 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

14:50
–
15:10

EuRAD12-3

Analytical PSLR and ISLR Expressions for OTFS Radar Performance Evaluation

Sirine Hamrouni¹, Jean-Yves Baudais², Stéphane Méric¹, Adnane Cherif¹

¹IETR INSA of Rennes, ²IETR INSA RENNES, France, ³ATSSEE Laboratory, Science Faculty of Tunis, University of Tunis El Manar

15:10
–
15:30

EuRAD12-4

An ISAC field demonstrator System

Roland Oechslein¹, Timon Schmid², Andreas Zutter²

¹armasuisse, ²Precisionwave AG

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, Christopher Mollen¹, Johannes Nygren¹, Aleksandar Ichkov¹, Rui He¹, Narendar Madhavan¹

¹Ericsson Research

15:50
–
16:10

Room 4

EuRAD13

Medical and Health Applications

Chair: Francesco Fioranelli¹

Co-Chair: Aled Catherall²

¹TU Delft, ²PlexTek

EuRAD13-1

Reduction of Radar Channel Spatial Variability in Medical Radar Applications by Means of Large Antenna Arrays

Bartosz Tegowski¹, Alexander Kölpin¹

¹Hamburg University of Technology (TUHH)

EuRAD13-2

A DSIL Low-IF Radar System With a Dual-Triple Non-Uniform Circular SRR for On-Wrist Vital Sign Sensing

Chinmaya Tripathy¹, Hsuan-Yung Chen¹, Hao-Cheng Wang¹, Kuan-Yuan Lee¹, Mohammed Nurain Mustaque¹, Hao-To Wang², Zizy-Sheng Horng¹

¹National Sun Yat-Sen University, ²Xunweitech

EuRAD13-3

Remote Respiratory Detection Using a Single UAV-Mounted FMCW Radar with Digital Beamforming

Khaldoon Ishmael¹, Olga Boric-Lubecke²

¹Naval Information Warfare Center Pacific, ²University of Hawaii at Manoa, College of Engineering

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

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

Room 12

EuRAD14

Radar Beamforming and Frontend Technologies

Chair: Ronny Harmanny¹

Co-Chair: Daniel Andre²

¹Thales Nederland B.V., ²Cranfield University UK

EuRAD14-1

Fully Digital Beamforming Receiver with Improved Spur Suppression Using Fractional Frequency Dispersion

Atsuro SAMBAYASHI¹, Osamu Wada¹, Nobuhiko ANDO¹

¹MitsubishiElectric Corporation

EuRAD14-2

Terabit-per-Second Real-Time Chirp Synthesizer: An Ultra-Wideband Multi-Channel DDS Approach for RFSoc Radar Platforms

Christian Gesell¹, Lukas Paulus¹, Simone Steinhäuser¹, Julian Aguilar¹, Christian Waldschmidt¹

¹University of Ulm

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 Engineering, Institute of High Frequency Technology, RWTH Aachen University, Aachen, Germany

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

EuRAD14-5

Implementation of Phased Array Noise Radar and FMCW Radar Systems 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 UK

EuRAD14-6

Large-Aperture mmWave MIMO Cascaded Radar

Seifallah Jardak¹

¹Bristol Research & Innovation Laboratory, Toshiba Europe Ltd., Bristol, UK

THURSDAY 16:50 – 18:30

ROOM Room 8 - 11

EuMW03 EuMW/EuMC Closing

16:50 – 17:00 Session Welcome

Nick Ridler¹
¹EuMC Chair

17:00 – 17:30 The Critical Role of RF/Microwave Engineering in Quantum Technology

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 – 18:00 Development of RF and Microwave Solutions for Quantum Control and Measurement

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 – 18:15 EuMC Best Paper Awards

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

18:15 – 18:25 Closing Remarks

Stephen Harman¹
¹EuMW 2026 General Chair

18:25 – 18:30 Invitation to EuMW 2027

Paolo Colantonio¹
¹EuMW 2027 General Chair

THURSDAY 16:50 – 18:30

ROOM

Room 1

EuRAD15

Distributed Radar Synchronization and Sensing

Chair: Elisa Giusti¹

Co-Chair: Michail Antoniou²

¹CNIT, ²University of Birmingham

16:50
–
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

17:10
–
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

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 Werbnat¹, Julian Aguilar¹, Christina Bonfert¹, Christian Waldschmidt¹

¹Ulm University

17:50
–
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

18:10
–
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

Room 4

EuRAD16

Industrial and Civilian Applications

Chair: André Bourdoux¹

Co-Chair: Nils Pohl²

¹IMEC, ²Ruhr University Bochum

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

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

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)

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

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

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

EuRAD17-1

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

Abdollah Ajorloo¹, Stefano Amato Ciciretti¹, Matteo Zorzi¹, Carlo Bongioanni¹, Fabiola Colone¹

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

EuRAD17-2

Detector-less Coherent Integration-based Doppler Division MIMO Decoder

Filip Alexandru Rosu¹, Adriana Brigalda¹

¹NXP Semiconductors

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

EuRAD17-4

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

Seo-Ryeong Choi¹, Hyun-Hwan Choi¹, Yong Tae¹, Sungho Lee², Sangwook Nam², Byung-Sung Kim¹

¹Sungkyunkwan University, ²Korea Electronics Technology Institute, ³Seoul National University

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

Room 13

EuRAD18

AI for Short Range Radar Applications

Chair: Julien Le Kerne¹

Co-Chair: Christos Ilioudis²

¹University of Glasgow, ²Cranfield University

EuRAD18-1

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

Tobias Sukianto¹, Matthias Wagner², Wei Liu³, Sarah Seif¹, Cecilia Carbonelli³, Mario Huemer²

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

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

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

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

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

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

08:30
-
08:50

EuRAD19-1
Envelope-Constrained BRSR-OpGAN for Blind Radar Pulse Transient Restoration

Ana Claudia Soares Simoes¹, Mariane Rembold Petraglia²

¹Brazilian Navy Research Institute, ²Federal University of Rio de Janeiro

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)

09:10
-
09:30

EuRAD19-3
Blind Receiver Scheduling for Electronic Support Using Machine Learning

Vaibhav Sekhar¹, Gottfried Lechner², Khoa Nguyen³, Simon Faulkner⁴

¹Defence Science and Technology Group, ²Adelaide University

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

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

¹Council for Scientific and Industrial Research (CSIIR)

10:10
-
10:30

Room 4

EuRAD20

Applied Signal Processing and Systems

Chair: Kevin Chetty¹

Co-Chair: Andrea Quirini²

¹University College London, ²Sapienza University of Rome

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

EuRAD20-2
High-Resolution Motion Tracking in Automotive Crash Tests Using mm-Wave Harmonic Radar

Steffen Hansen¹, Gunnar Briese¹, Dominic Funke¹, Christian Krebs¹, Jan Wessel¹, Nils Pohl²

¹Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR, ²Ruhr-Universität Bochum

EuRAD20-3
Millimeter Wave Radar Image Correlation Based Pedestrian Detection in Mobile Radar Platform

Shunsuke Tanaka¹, Shouhei Kidera¹

¹The University of Electro-Communications

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

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

Room 6

EuRAD21

Applications of High-Resolution SAR Systems

Chair: Pia Addabbo¹

Co-Chair: Ilaria Nasso²

¹Università Telematica Giustino Fortunato, ²Sapienza University of Rome

EuRAD21-1
Range Resolution of Narrowband Near-field SAR

Marcin Wachowiak¹, André Bourdoux², Sofie Pollin¹

¹imec, KU Leuven, ²imec

EuRAD21-2
Realistic Ray-Tracing-Based Simulation of Wave Propagation Through Dielectrics for Subsurface Radar Imaging Applications

Peter Mergenthaler¹, Ingrid Ullmann¹, Christian Schübler¹, Johanna Bräunig², Konstantin Root³, Georg Schnattinger³, Marcel Hoffmann³, Martin Vossiek³

¹Institute of Microwaves and Photonics (LHFT), Friedrich-Alexander-Universität Erlangen-Nürnberg, ²fiveD GmbH, ³Rohde & Schwarz GmbH & Co. KG

EuRAD21-3
A 77GHz Compact Fully Polarimetric SAR Imaging System for Non-Destructive Test

Qiyushi Xiang¹, Kamran Entesari¹, zibo gong¹, Mohamad Mahdi Rajaei Rizzi¹

¹Texas A&M 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

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

EuRAD21-6
A Framework for High-Resolution Forward-Looking Imaging of High-Speed Moving Platforms

Lingyun Ren¹

¹Nanjing University of Aeronautics and Astronautics

Room 12

EuRAD23

Cognitive Techniques, Sensor Tasking and Machine Learning

Chair: Mayazzurra Ruggiano¹

Co-Chair: Fatemeh Norouziyan²

¹Thales Nederland B.V., ²University of Birmingham

EuRAD23-1
Enhancing Automotive Radar Point Clouds through Cognitive Modulation Adaptation

Yun Kuan Su¹, Benedikt Lösch¹, Nicolai Kern¹, Alexander Yarovsky², Francesco Fioranelli³

¹Robert Bosch GmbH, ²Delft University of Technology

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

EuRAD23-3
Temporal Graph Neural Network for ISAC Target Detection and Tracking

Saeideh Maboud Sanaei¹, Thomas Dallmann¹

¹Ilmenau University of Technology

EuRAD23-4
Open-Set Radar Jamming Pattern Recognition via Ensemble Multiple Time-Frequency Features

Binbin Chen¹

¹Nanjing University of Aeronautics and Astronautics

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.

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 Lombardini³, Fulvio Gini³, André Bourdoux²

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 Synchroniza-
tion Technique for Distributed
Synthetic Aperture Radar Systems

Greta Zefi¹, Carmine Clemente²

¹University of Strathclyde, Glasgow, United Kingdom, ²University of Strathclyde

FRIDAY 11:10 - 12:50

ROOM

Room 1

EuRAD25

Space Domain and Space Situational Awareness

Chair: Pierfrancesco Lombardo¹

Co-Chair: Faruk Uysal²

¹Sapienza University of Rome, ²TNO

11:10
-
11:30

EuRAD25-1

Sensitivity Analysis for Space-Based ISAR, MIMO-ISAR, and Phased-MIMO-ISAR Imaging

Anum Pirikani¹, Alexander Ferrinhough¹, Marco Martorella¹, Marina Gashinova²

¹University of Birmingham

11:30
-
11:50

EuRAD25-2

Semantic Learning of Satellite Morphology using in-orbit Inverse Synthetic Aperture Radar

Ian Groves¹, Gruffudd Jones², Yao Ge³, Marco Martorella¹, Marina Gashinova², Victoria Nockles¹

¹The Alan Turing Institute, ²University of Birmingham, UK

11:50
-
12:10

EuRAD25-3

Sub-THz ISAR Characterisation of Resident Space Objects During Proximity Operations

Gruffudd Jones¹, Ian Groves², Yao Ge³, Bangjie Zhang¹, Leah-Nani Alconcel³, Marco Martorella¹, Victoria Nockles¹, Marina Gashinova²

¹EESE, University of Birmingham, ²The Alan Turing Institute, ³University of Birmingham

12:10
-
12:30

EuRAD25-4

Joint Range and Spin Rate Estimation of Tumbling Space Targets Using OFDM Radar

Haofan Dong¹, Ozgur B. Akan¹

¹University of Cambridge

12:30
-
12:50

EuRAD25-5

Edge Computing Requirements for Spaceborne Sub-THz ISAR: A Real-Time Processing Analysis for SDA

Yao Ge¹, Bangjie Zhang¹, Gruffudd Jones¹, Ian Groves², Victoria Nockles¹, Iain Styles³, Marco Martorella¹, Marina Gashinova²

¹University of Birmingham, UK, ²The Alan Turing Institute, ³Queen's University Belfast

Room 4

EuRAD26

Geoscience, Weather and Environmental Remote Sensing

Chair: Felix Yanovsky¹

Co-Chair: André Bourdoux²

¹National University Kyiv Aviation Institute, Kyiv, Ukraine, ²IMEC

EuRAD26-1

Joint Estimation of Fall Velocity, Radial Wind, and Median Drop Diameter from Doppler Spectra of a Fast-Scanning Weather Radar

Tworit Dash¹, Oleg Krasnov¹, Hans Driessen¹, Alexander Yarovoy²

¹Delft University of Technology

EuRAD26-2

Multi-Frequency K/Ka/W-Band Radar Calibration and Doppler Characterization of Rain Using Disdrometer-Radiometer Data Fusion

Felix Yanovsky¹, Aleksander Pitertsev¹, Herman Russchenberg¹, Christine Unal²

¹National University Kyiv Aviation Institute, Kyiv, Ukraine, ²Delft University of Technology

EuRAD26-3

Multitaper Spectral Estimation Based on Burg Band Prediction Error Weighting for UHF Hydrological Radar Flow Velocity Measurement

linxun Jiang¹, Qing Zhou², DePeng Wang², Chuanwei Ding¹, Heng Zhao¹, Hong Hong¹, Xiaohua Zhu²

¹Nanjing University of Science and Technology, ²School of Electronic and Optical Engineering, Nanjing University of Science and Technology, China

EuRAD26-4

Monitoring River Freeze-Thaw State using Polarimetric GNSS-R

Ankit Regmi¹, Leo-Juhani Meriö², Pertti Ala-aho³, Marko E. Leinonen¹

¹Center for Wireless Communications, University of Oulu, ²Finnish Environment Institute (SYKE), ³Water, Energy and Environmental Engineering, University of Oulu

EuRAD26-5

Experimental Validation of a 77 GHz FMCW Radar for Water Surface Velocity Measurement in a Controlled Open Channel

Estelle Yvana EYENGA ABATE¹, Alain CRAVE², Stéphane Méric¹, María García-Vigueras³, Gilles PICOULET¹

¹ETR, INSA Rennes, ²Univ Rennes, CNRS, Géosciences Rennes

Room 6

EuRAD27

Activity, Behavior and Infrastructure Monitoring

Chair: Martin Vossiek¹

Co-Chair: Bashar Ahmad²

¹Friedrich-Alexander University Erlangen-Nürnberg (FAU), ²BAE Systems

EuRAD27-1

Towards a Radio-Frequency Native Skeletal Model

Chengyang Zhang¹, Chuanwei Ding¹, Heng Zhao¹, Qing Zhou¹, Xiaohua Zhu¹, Hong Hong¹

¹Nanjing University of Science and Technology, China

EuRAD27-2

Fall Prediction from Micro-Doppler Signature of Human Gait: A Proof of Concept

Fabrizio Lorenzo Carcione¹, Paolo Brasiliano¹, Elena Bergamini², Emanuele Cardillo¹

¹University of Messina, Italy, ²University of Bergamo

EuRAD27-3

A Minimum-Burden Framework for Weakly Supervised Through-Wall Radar Activity Labelling at Scale

Matt Ash¹, James Brown¹

¹Supersense Technologies Ltd

EuRAD27-4

Escalator-Aided Millimeter-Wave ISAR Imaging for Walk-Through Security Screening: Feasibility Study

Isao Matsushima¹, Masato Gocho¹, Norihiro Togo², Tadashi Oshima¹

¹Mitsubishi Electric Corp., ²Mitsubishi Electric Engineering Company Limited

EuRAD27-5

A Time Domain Method for Estimating Wind Turbine RPM Using a Monostatic Pulse Doppler Radar

George Mathai¹

¹Lund University and Ericsson AB

Room 12

EuRAD28

Detection and Tracking

Chair: Fabrizio Santi¹

Co-Chair: Mohammed Jahangir²

¹Sapienza University of Rome, ²University of Birmingham, UK

EuRAD28-1

Detection of Wildlife-Snares using UAV-Borne SAR

Tim Köhler¹, Alexander Grathwohl¹, Stephen Paine², David Gaynor³, Christian Waldschmidt¹

¹Institute of Microwave Engineering, Ulm University, ²University of Cape Town, ³University of Pretoria, South Africa

EuRAD28-2

Unscented GM-PHD Filter for Tracking of Multiple Pedestrians with an FMCW Radar

Mohcine Hamoumi¹, François Horlin¹, François Quitin¹, Jérôme Louveaux², Nihad Elhag³

¹ULB, ²UCLouvain

EuRAD28-3

Airborne Bistatic Radar Detection with Long Integration Times Using Quadratic Time Delay Model and Keystone Transformation

Olof Forssén¹, Tomas McKelvey¹, Mats Viberg², Patrik Dammert³

¹Chalmers University of Technology, ²Saab AB and Chalmers University of Technology

EuRAD28-4

Detection of Targets with Unknown Coherence Time

Tomas McKelvey¹, Ciaran Hoskins², Patrik Dammert³

¹Chalmers University of Technology, ²University of Strathclyde, ³Saab AB

EuRAD28-5

Region-Based Dynamic Object Detection and Tracking in Cluttered Environments

Anum Pirikani¹, Aleksandr Bystrov², Marina Gashinova²

¹The University of Birmingham, ²University of Birmingham

FRIDAY 13:50 – 15:50

ROOM Room 7 - 9

EuRAD29 EuRAD Closing

13:50 – 14:00	Session Welcome <hr/> David Greig ¹ <small>¹Leonardo UK</small>	15:45 – 15:50	Closing Remarks & Invitation to EuRAD 2027 <hr/> David Greig ¹ <small>¹Leonardo UK</small>
14:00 – 14:45	ESA Activities on Advanced SAR Signal Processing Techniques and Applications for Security <hr/> Michela Corvino ¹ <small>¹European Space Agency</small> 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 – 15:30	Challenges Facing Modern RADAR Development <hr/> Phil Clarke ¹ <small>¹BAE Systems</small> 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 – 15:45	Awards Ceremony – EuRAD Best Paper Awards <hr/> David Greig ¹ <small>¹Leonardo UK</small>		

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****SS01**
EuMCChair: 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

PROGRAMME**Welcome and Course Introduction**Dean White¹¹Qorvo**Deploying RF Subsystems for Next-Generation SATCOM Ground Terminal**Tudor Williams¹¹Filtronix**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 Colantonio¹

Co-Chair: Rocco Giofrè¹

¹University 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

Ilicho Angelov¹

¹Chalmers University (Sweden)

PA theoretical foundation

Paolo Colantonio¹

¹University of Roma Tor Vergata

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

Marco Pirola¹

¹Politecnico di Torino (Italy)

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

Gustavo Avolio¹

¹Maury Microwave, Eindhoven, The Netherlands

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

Gijs van der Bent¹

¹TNO Radar Technology Department (The Netherlands)

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

Alessandro Cidronali¹

¹University of Florence (Italy)

The Doherty Power Amplifier

Rocco Giofrè¹

¹University of Roma Tor Vergata (Italy)

Balanced PAs: an old trick revival

Roberto Quaglia¹

¹Cardiff University (UK)

Balanced PAs: an old trick revival

Aleksander Bogusz¹

¹Cardiff University (UK)

Linear and Nonlinear Stability Analysis of Power Amplifiers

Giorgio Leuzzi¹

¹University of L'Aquila (Italy)

Linearization techniques overview

Pere L. Gilabert¹

¹Universitat 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

SM01
EuMC

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.

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

SM02
EuMC

Chair: Markus Lörner¹

Co-Chair: Thorsten Lück¹

¹Rohde & Schwarz

Room 2

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 Lörner¹

¹Rohde & Schwarz

Advanced measurement techniques with defined phases on multichannel signal analyzers

Florian Ramian¹

¹Rohde & Schwarz

Advanced measurement techniques with defined phases on VNAs

Thorsten Lück¹

¹Rohde & Schwarz

Characterizing electronic and optoelectronic pulse generators for traceable broadband phase referencing

Heiko Füsler¹

¹Physikalisch-Technische Bundesanstalt (PTB)

Reliable Measurements of Modulated Signals: Establishing Traceability

Bryan Bosworth¹

¹NIST Communications Technology Laboratory

Frequency-Agile Phase settings for High-Performance Beamforming

Peter Moosbrugger¹

¹Qorvo

Behavioral Modeling via Time-Domain Signal Analysis

Mauro Marchetti¹

¹Maury

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

SF03
EuRAD

Chair: Seung-Hyun Kong¹

Co-Chair: Dong-Hee Paek¹

¹KAIST

Room 17

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 ([\[icra25-4dradar-tutorial\]\(https://sites.google.com/view/icra25-4dradar-tutorial\)\), 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](https://sites.google.com/view/</p></div>
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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

WS01
EuMC

Chair: Tinus Stander¹

Co-Chair: Cristiano Tomassoni²

¹University of Pretoria, ²University of Perugia

Room 1

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 Wang¹

¹University of Birmingham

Monolithic Metallic Additive Manufacturing for High-Frequency Microwave Components: From Design Methodology to Industrial Deployment

Pepe Rico¹

¹Northern Waves

Multimaterial Additively Manufactured RF Electronics

Yang Yang¹

¹University of Technology Sydney

RF components by Cyclic Olefin Thermoset vision-controlled jetting

Scott Twiddy¹

¹Inkbit

From Silver Mirrors to Microwave Components

Dominik Langer¹

¹Technische Universität Hamburg-Harburg

From Nanoparticles to Functional Inks: Additive Manufacturing of Microwave Components and Systems

Atif Shamim¹

¹KAUST

Passive microwave components made by micro-SLA resin printing and metallic coating and their space qualification

Andreas Frölich¹

¹Horizon Microtechnologies

Additive manufacturing of sub-THz passive components using new generations of printers

Nicolas Delhote¹

¹XLIM

Recent advances in 3D printed dielectric-filled waveguides and waveguide components

Archibald Wishard Rohde¹

¹University of Pretoria

SUNDAY 08:30 – 18:30

Accurate Signals, Linear Amplifiers: Measurement Techniques from RF to Sub-THz

Chair: Osamu Kusano¹

Co-Chair: Jan Verspecht¹

¹Keysight 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 Becker¹

¹Keysight

Equalized Channel Capacity – A Universal Approach to Quantifying Modulation Quality

Jan Verspecht¹

¹Keysight Technologies

Improving mmW Design Prediction Accuracy through the Use of Measured Broadband Permittivity and Conductivity

Yoshiyuki Yanagimoto¹

¹EMLabs, inc

Phase-Coherent Multi-Channel Signal Generation for MIMO and AoA Applications

Osamu Kusano¹

¹Keysight Technologies

Accurate Analog Pre-Distortion Achieving DPD-Like Performance

Tommaso Cappello¹

¹Villanova University

Linearity and Signal Purity Challenges in Sub-THz Measurements

Eric Bryeton¹

¹Virginia Diodes, Inc. (VDI)

Digital Pre-Distortion for J-Band Power Amplifiers

Ibrahim Abdo¹

¹NTT Corporation

SUNDAY 08:30 – 18:30

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

WS03
EuMC

Chair: Daniel Segovia-Vargas¹

Co-Chair: Elliott Brown², Zachary Taylor³

¹UC3M, ²WSU, ³Aalto University.

Room 4

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 approached 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



WS04
EuMC

Chair: Teun van den Biggelaar¹

Co-Chair: Naila Rubab²

¹Antennex, The Netherlands, ²Antennex, The Netherlands Eindhoven University of Technology, The Netherlands

Room 8

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 Vigano¹

¹Viasat, Switzerland

Advances in Antenna Technologies for SATCOM

Alessandro Garufo¹

¹TNO, The Netherlands

AI/ML techniques for in-flight correction of Array Fed Reflector deformation

Martin Togstad¹

¹Large Space Structures GmbH, Heriot-Watt University

Advances in Ridge Waveguide Phased Array Antennas: Scan Limits and Design Solutions

Sören Harms¹

¹TU Eindhoven

Textile-based terrestrial user terminal antenna

Hoda Nematollahi¹

¹ESA

Multiple Beam Forming Phased Array Architectures for NTN User Terminals

Yanki Aslan¹

¹TU Delft

Emerging OTA measurement techniques for NTN terminals

Teun van den Biggelaar¹

¹Antennex, 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

María García-Vigueras¹

¹ETR and INSA Rennes, France

SUNDAY 08:30 – 18:30

Advanced power sensing for frequencies above 140GHz

WS06
EuMC

Chair: Daniel Stokes¹

Co-Chair: Murat Celep¹

¹National Physical Laboratory (NPL) [UK]

Room 10

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

WS07
EuMC

Chair: Felice Francesco Tafuri¹

Co-Chair: Daryoush Shiri²

¹Keysight Technologies, Italy, ²Keysight Technologies, Singapore

Room 11

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

WS08
EuMC

Chair: Fábio Passos¹

Co-Chair: Simona Donati Guerrieri²

¹University of Lisbon, ²Politecnico di torino

Room 12

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

David Pan¹

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 Fonte¹

Co-Chair: Luca Aluigi²

¹SIAE 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 Limiti¹

¹Dept. of Electronics Engineering University of Rome Tor Vergata, Rome, Italy

Transistor stacking and load-modulation: from low to high frequency

Vittorio Camarchia¹

¹Department of Electronics and Telecommunications Politecnico di Torino Torino, Italy

Challenges in IC design for 6G: Fundamental SiGe BiCMOS Building Blocks

Guglielmo De Filippi¹

¹Fondazione Chips-IT, Pavia, Italy

Sculpting mm Wave Performance: Passive Innovation, local-backside-etching advantages, and Sub THz practical insights

Aniello Franzese¹

¹IHP - Leibniz-Institut für Innovative Mikroelektronik, Frankfurt (Oder), Germany

Design of a 39 GHz digital beam-forming TRX in 22FD SOI

Jerome Prouvee¹

¹CEA LETI, Grenoble, France

Integrated Millimeter-Wave Avalanche Noise Sources for Cryogenic Applications

Federico Alimenti¹

¹Department of Engineering, University of Perugia Perugia, Italy

From mm-Wave Measurements to Nonlinear Transistor Models: Challenges and Practice

Valeria Vadala¹

¹University of Milano-Bicocca, Milan, Italy

From Switched-Beam Architectures to mm-Wave IC Limits: Practical Insights for Highly Integrated SatCom Terminals

Emilio Arniere¹

¹Millimeter-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 Filice¹

¹IMEC, Leuven, Belgium

Multi-Antenna Transceivers Exploiting Spatial Processing

Dominique Morche¹

¹CEA LETI, Grenoble, France

MINI PANEL SESSION: Silicon vs. III-V Technologies: Implications for Millimeter-Wave IC Development

Alessandro Fonte¹

¹SIAE 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 Giancesello, Pascal Chevalier¹

¹ST Microelectronics, Grenoble, France

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

Han Zhou¹, Victor Åberg¹, Gregor Lasser², Christian Fager²

¹Lund University, Lund, Sweden, ²Chalmers University, Sweden

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

Shuichi Sakata¹, Kento Saiki¹

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

Nathalie Deltimple¹, Paul Rezette², 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

WM01
EuMC

Chair: Abhijeet Kanitkar¹

Co-Chair: Xiaobang Shang²

¹Ferdinand-Braun-Institut gGmbH (FBH), ²National Physical Laboratory (NPL)

Room 1

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 Salski²

¹QWED, 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 Goncalves³

¹Physikalisch 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 Rumiantsev²

¹Keysight Technologies, ²MPI Corporation

A new perspective on on-wafer measurement technique with TRL calibration standards

Chong Li¹

¹University of Glasgow

Automatic Model Extraction for the symmetric-reciprocal-match (SRM) VNA calibration

Michael Ernst Gadringer¹

¹Institute of Microwave and Photonic Engineering, Graz University of Technology

AI-Assisted Probe Alignment and Measurement for Next-Generation RF Devices

Kamel Haddadi¹

¹University of Lille

Recent progresses in on-wafer measurement with RF signal detection technique

Ryo Sakamaki¹

¹National Institute of Advanced Industrial Science and Technology (AIST) and Hiroshima University

De-embedding topics related to broadband, differential on-wafer measurements

Jon Martens¹

¹Anritsu 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. Hwang¹

¹Cornell University, ²Marche Polytechnic University

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

Joaõ 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

¹Filtronix

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 Lupoae¹

¹Keysight

RF Photonics for Space

Alexander Hees¹

¹AIRBUS

Low-phase noise THz generation

Marcel Grzeslo¹

¹MWP

Photonics for THz VNA

Robert Kohlhass¹

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

WM04
EuMC

Chair: Tommaso Cappello¹

Co-Chair: Kevin Morris²

¹Villanova University, ²University of Leeds

Room 13

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

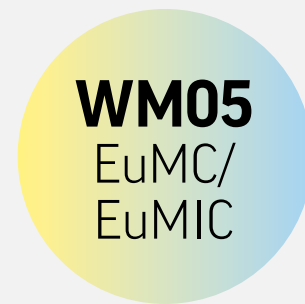
Analog Predistortion Linearizer for Class-AB Power Amplifiers

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 Nieweglowski¹

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

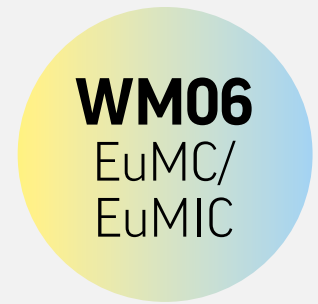
Enabling Ultra-Low Noise RF Systems: Technology, Materials and Metrology

Chair: Nizar Messaoudi¹

Co-Chair: Chong Li²

¹Keysight Technologies, ²University of Glasgow

Room 15



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 Li¹

¹University of Glasgow

InGaAs Metamorphic HEMT Technologies for Cutting-Edge Low-Noise, High-Frequencies, and Ultra-Wideband Applications

Fabian Thome¹

¹Fraunhofer IAF

trapping in GaN LNAs

Matthias Rudolph¹

¹Brandenburg University of Technology Cottbus-Senftenberg

Low-noise GaN-on-Si HEMTs for mm-Wave Integrated T/R Modules

Ng Geok Ing¹

¹Nanyang Technical University Singapore

Highly efficient 2D material based transceivers for space communications (tentative)

Peng Zhou¹

¹Fudan University

Cryogenic InGaAs transistor for low-noise amplifier and routing circuits

Sanghyeon Kim¹

¹KAIST

Challenges of On-Wafer Noise Parameter Measurements in an Industrial Environment for Advanced Silicon Technologies

Joao Carlos Azevedo Goncalves¹

¹ST Micro

Practical Noise Figure Measurements: Methods, Limitations and Uncertainties

Nizar Messaoudi¹

¹Keysight Technologies

Advancements Noise Parameters Characterization: from Room-Temperature to cryogenic applications

Mauro Marchetti¹

¹Maury

Pushing the Limits of Wafer-Based Noise Characterization: Measurement Error at mm-Wave and Sub-THz

Bryan Hosein¹

¹Focus Microwaves

Pulse-operated HEMT LNA using time-domain noise measurements

Jan Grahm¹

¹Chalmers

MONDAY 08:30 – 18:30

Is RF GaN-on-Si ready for prime time?

Chair: Nadine Collaert¹

Co-Chair: Bertrand Parvais¹

¹imec

Room 16



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

Hassan Saleh¹

¹Yole

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

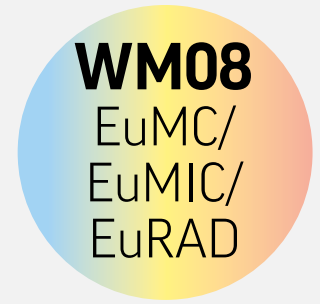
MONDAY 14:10 – 18:30

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-rl, 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

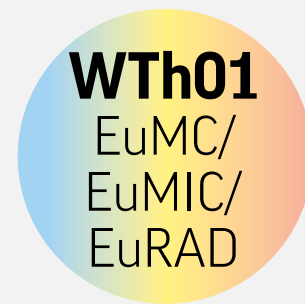
Sionna: An Open-Source Library for AI-Native 6G Research

Sebastian Cammerer¹

¹NVIDIA

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

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, Turkiye

Reconfigurable active phased array for full duplex integrated sensing and communication.

Eric Klumperink¹

¹University Twente, Netherlands

RF interposer design for mm-Wave/Sub-THz phased arrays: A multi-physical CAE approach

Francesco Filice¹

¹IMEC, Leuven, Belgium

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

Industrial robotics in the measurement of active array antennas

Stuart Gregson¹

¹Next Phase Measurements, Queen Mary University of London, UK

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

¹Infiniteon Technologies AG, Neubiberg, Germany

Integrating Cooperative Radar Networks in Real-World: Challenges and Solutions for Optimal Performance

Daniel Schindler¹, Cornelius Kaiser¹, Tobias Schmid¹

¹Robert Bosch GmbH, Renningen, Germany

Future Radar System Architectures for ADAS and AD

Maximilian Steiner¹

¹Mercedes-Benz AG, Sindelfingen, 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 Pirikani¹, Yang Xiao¹, Ali Bekar¹, Marina Gashinova¹

¹University of Birmingham, Birmingham, United Kingdom

AI techniques in automotive radar: inspiration for object detection, segmentation, and ego-motion estimation

Mujtaba Hassan¹, Ignacio Roldan¹, Alexander Yarovoy¹, Sen Yuan¹, Simin Zhu¹, Francesco Fioranelli²

¹TU Delft, Delft, The Netherlands, ²TU Delft

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 Kerne²

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 Kerne¹

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 Sotte University

FRIDAY 08:30 – 12:50

Radar Technologies for Space Domain Awareness (SDA)

Chair: Marco Martorella¹

Co-Chair: Marina Gashinova²

¹University 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 Jedrzejewski¹

¹Warsaw University of Technology

Novel Spaceborne Radars for Surveillance

Marco Maffei¹, Augusto Aubry¹, Massimo Rosamilia¹, Roberto Venturini¹, Antonio De Maio¹

¹Thales Alenia Space Italy

Research progress on SSA/SDA at DLR

Markus Peichl¹, Simon Anger¹, Matthias Jirousek¹, Florian Bischeltsrieder¹, Fabian Hochberg¹

¹German Aerospace Centre (DLR)

Detecting and tracking threats in-space with a low-cost radar

Joe Milbourn¹, Vidhya Sridhar¹

¹TTP

In-orbit sub-THz sensing for SDA

Marina Gashinova¹, Marco Martorella², Gruffudd Jones²

¹University of Birmingham, Birmingham, United Kingdom, ²University of Birmingham

Ground-based Dual-Band Radar for Space Domain Awareness

Richard Reeves¹

¹RAL Space

Reconfigurable Intelligent Surfaces for Space Comms and Sensing

Gabriele Gradoni¹

¹University 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 EuMIC/EuMC Advanced IC Design for mm-Wave and Beyond	
14	WS-10 EuMIC/EuMC 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				
8	EuMIC01 EuMIC Opening			
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			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 EuMIC/EuMC 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 Emerging Applications	
15	WM-06 EuMIC/EuMC Enabling Ultra-Low Noise RF Systems: Technology, Materials and Metrology			
16	WM-07 EuMIC/EuMC Is RF GaN-on-Si ready for prime time?			
17			EuMIC09 GaN Devices and Technologies	EuMIC13 CMOS Devices and Technologies



Room	Evening programme 
Galyons Royal Docks	EuMIC Get-Together 19:00 – 22:00

TUESDAY OVERVIEW

Room	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 Microwave 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	
7		EuMW01 EuMW/EuMC Opening		EuMIC19 EuMIC Closing
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 Microwaves (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


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, Elements, and Wide-Angle Beam Scanning	EuMC27 Smart Antennas, SatCom Apertures, and Array Characterisation	EuRAD02 Enabling Technologies 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 Fabrication Techniques	EuMC34 RF Exposure Modeling and Characterization of Biological Materials
6	EuMC14 Components Based on Emerging 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 Wireless Power Transfer	EuMC24 Next-Generation Backscatter Tags and Harmonic Radar Systems	EuMC31 Focused Session on Advanced Rectifiers and Rectennas for Microwave Power Transmission	EuRAD04 AI-Based Enhancement of Radar Data
14	EuMC18 Advanced VNA Measurement Techniques	EuMC25 Advanced On-Wafer Calibration 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	




Room 	Evening programme
Sundown Bar, Sunborn Yacht	Defence Forum Dinner 18:30 – 22:00
London Museum Docklands	EuMW Gala Event 19:00 – 23:00

THURSDAY OVERVIEW

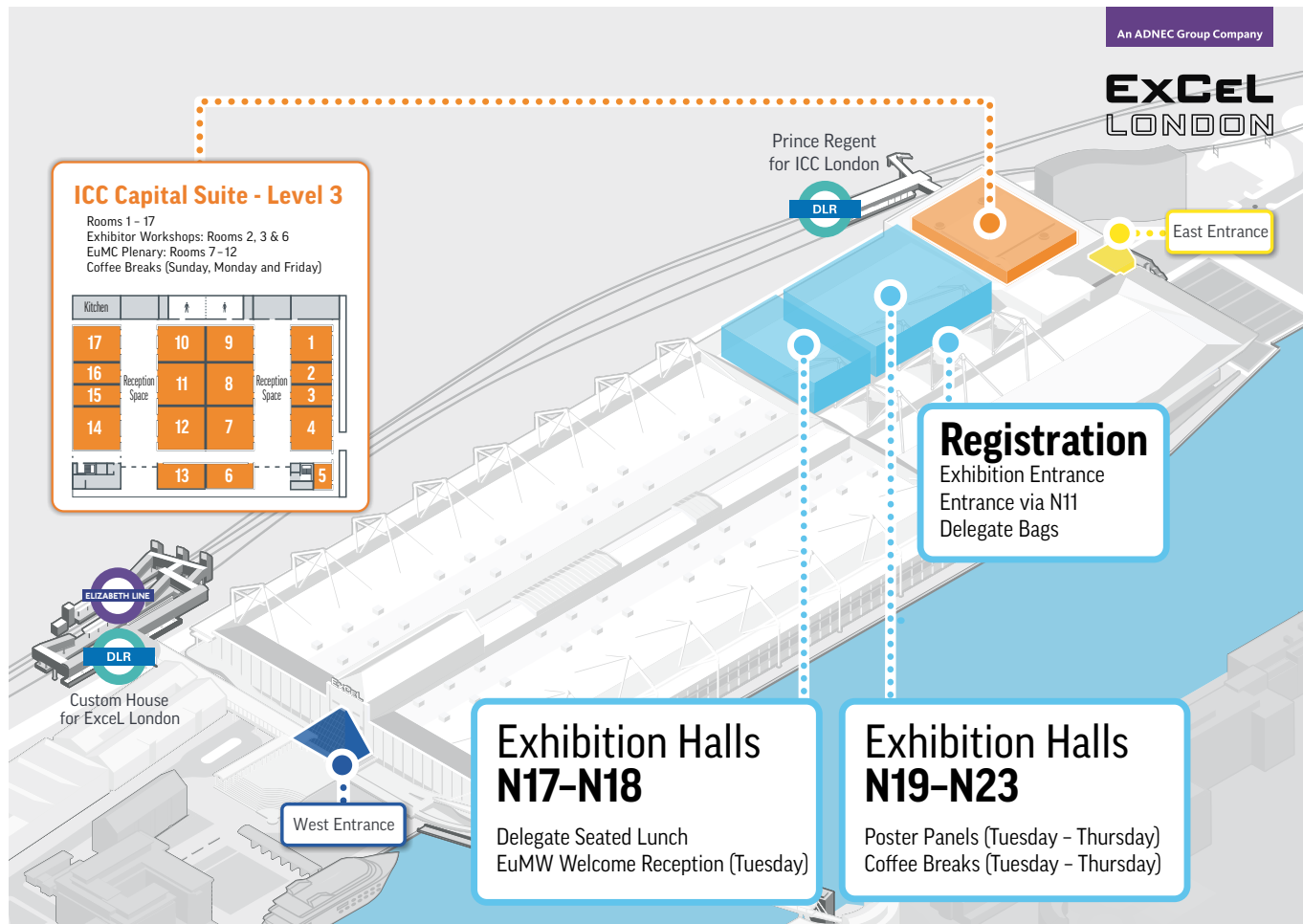
Room	8:30 - 10:30 	11:10 - 12:50 	14:10 - 16:10 	16:50 - 18:30
1	EuMC38 Metasurface and Leaky-Wave Antennas	EuMC44 Antennas for Next-Generation Millimeter-Wave Communication and Sensing	EuRAD12 Joint Sensing and Communications	EuRAD15 Distributed Radar Synchronization and Sensing
2	Exhibitor Workshop		Exhibitor Workshop	
3	Exhibitor Workshop		Exhibitor Workshop	
4	EuRAD05 Advanced Automotive Radar Signal Processing	EuRAD08 Radar-Based Mapping, Localization, and Sensing for Autonomous Platforms	EuRAD13 Medical and Health Applications	EuRAD16 Industrial and Civilian Applications
6	EuMC39 Design and Characterization Techniques		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	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 
Off site locations	6G Forum Dinner 19:00 - 22:00
Fremantle Bar & Kitchen	Radar Interchange 19:00 - 22:00

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) · Accucom Ltd (L284A) · 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) · AMBASEN (L240) · American Standard Circuits Inc. (L102) · Ampwave Defense LLC (L270) · Amtery Corporation (L196) · Analog Devices LTD (B20B) · Anritsu EMEA GmbH (K38) · Ansys Inc. (J30) · Antae (L106, L122, L170) · Antares Defence Systems Ltd (L272) · AntenneX BV (J10) · AO Technologies (L94) · Artech House (L116) · Aspocomp 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 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) · Comtest Engineering (K96) · 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) · 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) · Inpower Co. Ltd. (L180) · Integra Technologies Inc. (L22) · Intergrated 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)

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) · Northern Waves AB (L112) · NSI-MI Technologies (K132) · NSTIC GaN (L258)

O Oetric Semiconductors Ltd (L214) · OPHIR RF Inc (L198) · Optiprint AG (L56) · Optispac, Inc. (L330)

P Pasquali Microwave Systems SRL (K30) · Passive Plus Inc. (B25A) · PCB Technologies (L38) · Pendulum Instruments Sp. zo.o. (L282) · Pico Technology (L78) · Plexsa Manufacturing Hungary Kft. (K52) · PM Industries Inc. (L110) · 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 France LLC (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 Xinxun Microwave Technology Co. Ltd. (L84) · 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 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 (L80) · Teledyne e2v Semiconductors (L210) · Teledyne Microwave UK (L210) · Teledyne Reynolds UK (L210) · Telonic Berkeley Inc (K20) · Temwell Group (L156) · TIANFUCHIP (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 Huttering 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) · Vomac 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)