



The 20th European Microwave  
Integrated Circuits Conference

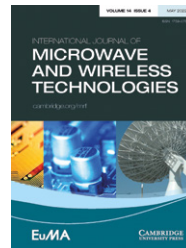
## EUROPEAN MICROWAVE INTEGRATED CIRCUITS CONFERENCE 2025 UTRECHT 22ND – 23RD SEPTEMBER 2025

The 20th European Microwave Integrated Circuits Conference (EuMIC) will be held in Utrecht, The Netherlands, as part of the European Microwave Week 2025. Initiated by the GAAS Association in 1990 and renamed in 2006, the conference is being held from the 22nd to the 23rd of September 2025. Close to Amsterdam, Utrecht is a vibrant, innovative city with a unique historical Dutch city centre. High-tech innovation and history go hand-in-hand and guarantee an outstanding conference experience!

The EuMIC conference is jointly organised by the GAAS Association and EuMA and is the premier European technical conference for integrated circuit and system design ranging from RF, microwave, and millimetre wave to terahertz electronics, ultra-fast mixed-signal circuits, and optoelectronics. Established as the key contributor to the success of the overall European Microwave Week, the EuMIC conference is the largest scientific event in Europe related to microwave integrated circuits.

The conference aims to showcase recent notable achievements and innovative trends from the academic and industrial field, to exchange scientific and technical information and to provide plenty of opportunities for networking and interaction with the community. The conference covers a broad range of high-frequency related topics in integrated circuits, ranging from devices, fabrication and IC packaging technologies to the monolithic integrated circuit and complete system design, system-in-package and system-on-chip applications, encompassing all relevant aspects such as theory, modelling, simulation, fabrication and measurement.

The EuMIC conference is the place for III-V-based and Si-based contributions - both strong and recognised drivers of innovation in microwave to terahertz and optical technologies, infrastructure, and applications. In the emerging technology area, contributions in the field of nanotechnologies, as well as wide-bandgap devices and technologies for microwave photonics, are specifically solicited. New and emerging applications of information and communication technology and sensing, megatrends such as 6G and terahertz connectivity, connected and environmental-aware vehicles, specifically automotive radar, smart and intelligent sensing, pan-global satellite coverage, Smart City & Smart Factory developments, all rely on high-frequency devices and solutions. They drive the technology pull, motivate in which field to invest, which technology strategy to choose, and where to focus your IC business.



If you are eager to hear of the latest advances in integrated circuit technology and how these will drive the next Telecom, Industrial, Automotive, and Smart City revolutions, attend the EuMIC conference in September 2025! The organisational team is putting together an outstanding programme, ensuring you will be excited.

Authors of EuMIC 2025 papers will be encouraged to submit an extended version of their paper to a special issue dedicated to EuMIC in the EuMA's International Journal of Microwave and Wireless Technologies.

### EuMIC 2025 CONFERENCE TOPICS

#### Modelling, Simulation of Devices and Circuits

- G01 TCAD and Multi-Physics Based Device and IC Modelling and Simulations
- G02 Linear, Nonlinear and Noise Characterisation and Modelling Techniques
- G03 Linear and Nonlinear CAD Techniques for Devices and Circuits
- G04 Advanced Methods for Microwave Integrated Circuit Design and Modelling (including AI, DL, ML, ANN)

#### Technologies, Devices and IC-Processes

- G05 Nano-Materials, Technologies and Devices for Microwave to THz Applications
- G06 Device and IC Manufacturing: Reliability, Processes and Testing
- G07 Passive Devices, Hetero-Integration and 3D Interconnects in ICs
- G08 Si-Based Microwave and Millimetre-Wave Technologies and Devices
- G09 Compound Semiconductor Technologies and Devices
- G10 New and Emerging Material and Device Concepts (including quantum electronics, CNT, organic)
- G11 Devices for THz Electronics and Integrated Microwave Photonics
- G12 Wafer-Level Packaging

#### Integrated Circuit Design

- G13 RF, Microwave and Millimetre-Wave Integrated Circuits up to 100 GHz
- G14 Millimetre-Wave (beyond 100 GHz) and THz Integrated Circuits
- G15 Integrated Receivers, Transmitters and High-Speed Transceivers
- G16 Power Amplifier Integrated Circuits
- G17 Integrated Frequency Sources and Frequency Conversion
- G18 ICs for Phased Array Antennas, Active Antennas, MIMO and Beamforming Transceivers and Building Blocks
- G19 Microwave Photonics Integrated Circuits and Silicon Photonic Transceivers
- G20 Mixed-Signal Integrated Circuits and GB/s Data Converters
- G21 Low-Noise Integrated Circuits
- G22 Si-Based Integrated Circuits Design
- G23 Si-Based Power Amplifier Integrated Circuits

#### Emerging Technologies and Applications

- G24 Sustainability, Energy Efficiency and Environmental Impact
- G25 Integrated Circuits for Radar and Sensing, including Automotive Radar
- G26 Integrated Circuits for Communications, including Autonomous Systems and Vehicular Communications
- G27 Integrated Circuits for Quantum Computing



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## CONFERENCE HIGHLIGHTS

About 100 papers and poster papers will be presented with contributions from Europe, Asia, the Middle East, North and South America, as well as emerging countries. High-quality papers and posters will be accepted after a rigorous review process and made available in the conference proceedings and online. Keynote speakers from industry and academia will present invited talks on hot topics. Tailored short courses, workshops, and lively panels round off the programme.

## EuMIC MICROWAVE PRIZE

The EuMIC Technical Programme Committee and the EuMW Steering Committee will award the EuMIC 2025 Prize of €3,000 to the author(s) of the best contributed paper at the 20th European Microwave Integrated Circuits Conference. An extended version of the winning paper will be considered for publication in the International Journal of Microwave and Wireless Technologies.

## EuMIC YOUNG ENGINEERS PRIZE

The EuMIC Technical Programme Committee and the EuMW Steering Committee will award (a) EuMIC Young Engineer Prize(s) of €2,000 to young engineers or researchers who have presented an outstanding paper at the European Microwave Integrated Circuits Conference. To be eligible, candidates must (1) have their 31st birthday after the end of 2025, (2) be the first author of the paper, and (3) be the contribution presenter in an oral or a poster session. The first author must have made a major contribution to the work reported, which must be described in an electronic statement signed by all co-authors of the paper (effectively, co-authors state that their contribution was merely advisory). This statement has to include the date of birth of the first author and must be submitted together with the original submission. The number of co-authors of the paper is not limited.

## TOM BRAZIL FELLOWSHIP AWARD STUDENT ESSAY COMPETITION

As part of the fellowship award, starting in 2021, the GAAS Association will promote an essay competition in memory of Prof. Tom Brazil, a great contributor to the Microwave Community and a well-known friend and colleague to many of us. To be eligible to participate, the student has to be enrolled in a full-time Ph.D. or graduate degree programme in microwave electronics and have their 31st birthday after the end of 2025. A two-stage approach is taken to select the Tom Brazil Fellowship Award winners. Interested authors must submit a four-page abstract; this year's theme is "Advancing sustainability in or through microwaves", using one of the EuMIC conference topics. This could address e.g. how sustainability in society could be promoted or improved using microwave technologies, or how the microwave industry could be supported to become more sustainable. This abstract has to be submitted to [brazilaward.eumw2025@eumwa.org](mailto:brazilaward.eumw2025@eumwa.org) by the 11th of March 2025. During the paper reviewing process, a shortlist of authors is determined.

These authors are requested to provide an extended version of their contribution with a maximum of 4000 words or a max. of 12 pages. The shortlisted authors must submit their essays by the 22nd of August 2025 to [brazilaward.eumw2025@eumwa.org](mailto:brazilaward.eumw2025@eumwa.org).

The best essay will be awarded a prize of €2,500. For the second and third place, prizes of €1,500 and €1,000 are granted. More information on the award is provided on the EuMW website, [www.eumw.eu](http://www.eumw.eu).

## REDUCED FEES AND SPECIAL GRANTS

Reduced registration fees are offered for students (whose 31st birthday is after the end of 2025) and senior persons whose 65th birthday is or was before the end of 2025. The European Microwave Association will also provide up to six student grants of €750 and free EuMIC registration. Applicants for a student grant must have their 31st birthday after the end of 2025, be full-time students, i.e., undergraduate or Ph.D. students, and they will be asked to provide a written proof of their current student status (certificate or letter of their PhD supervisor). The European Microwave Association will also provide a number of grants for delegates coming from the Newly Independent States and from low-income countries. We are particularly proud to support applications from Ukrainian scholars. The value of the grant is €750 in addition to a free EuMIC registration. Applications should be sent to the EuMW 2025 Grants and Visa Chair by emailing [grants.eumw2025@eumwa.org](mailto:grants.eumw2025@eumwa.org) within the deadline (see "Important Dates" section).

## 20TH EuMIC TEAM

Function	Name	Email
Chair	Marion Matters-Kammerer, Eindhoven University of Technology	<a href="mailto:eumic.chair.eumw2025@eumwa.org">eumic.chair.eumw2025@eumwa.org</a>
Co-Chair	Cicero Vaucher, NXP Semiconductors	
TPC Chair	Patrick Reynaert, KU Leuven	<a href="mailto:eumic.tpc.eumw2025@eumwa.org">eumic.tpc.eumw2025@eumwa.org</a>
TPC Co-Chair	Piyush Kaul, Eindhoven University of Technology	