



The 55th European Microwave Conference

EUROPEAN MICROWAVE CONFERENCE 2025 UTRECHT 23RD – 25TH SEPTEMBER 2025

The 2025 European Microwave Conference is Europe's top conference dedicated to microwave, millimetre-wave and terahertz devices, systems and technologies and will offer you exceptional opportunities to share and discuss your recent findings with peers and experts across a wide range of technological areas. The 55th European Microwave Conference will take place in Utrecht, a gem located in the centre of The Netherlands, a place where history, culture and innovation welcome you at every step.

The conference will be held between 23rd and 25th of September 2025, and it represents the feature event in the European Microwave Week. A broad range of high-frequency related topics, from materials and technologies to integrated circuits, systems and applications will be addressed in all their aspects: theory, simulation, design, and measurement. Examples include the latest developments of filters and passive components, modelling and design of emerging engineered materials, high-frequency and high-data-rate microwave photonics, highly stable and ultra-low-noise microwave and millimetre-wave sources, new linearisation

techniques, 6G, IoT, and the impact of new packaging technologies on development applications. The topic "Sustainability (including energy efficiency, eco-design) and Environmental Impact" (E39) will be a focus point, illustrating the conference's aim at both addressing the sustainable use of RF devices in our societies, and identifying the long-term measures for mitigating the environmental impact of RF technologies.

The European Microwave Conference 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. With carefully selected papers in more than 50 oral and poster sessions, the conference represents an exciting forum for the presentation and discussion of frontier progress in the microwave area. In addition to scientific papers, contributions on industrial applications will be prominently present, covering the fields of instrumentation, medical, telecommunication, radio astronomy, radar, space, automotive and defence systems.

EuMC 2025 CONFERENCE TOPICS

Passive Components, Circuits and Subsystems

- E01 Planar Passive Components and Circuits
- E02 Planar Filters and Multiplexers
- E03 Non-Planar Passive Components and Circuits
- E04 Non-Planar Filters and Multiplexers
- E05 Smart Materials, RF MEMS, MOEMS and NEMS
- E06 Metamaterials, Reconfigurable Surfaces (including frequency, polarisation, propagation) and Electromagnetic Bandgap Structures
- E07 Interconnects and Packaging - from Microwave to THz Circuits
- E08 Additive Manufacturing, Emerging Materials (including eco-friendly, bio-sourced) and Sustainable Technologies

Active Components, Circuits and Subsystems

- E09 Low-Noise Circuits and Modules
- E10 Frequency Generation, Conversion and Control
- E11 Front-End and Transceiver Modules, System-in-Package Technologies
- E12 Power Amplifiers, including Efficiency Enhancement, Linearisation and Behavioural Modelling
- E13 Sub-THz and THz Components, Circuits and Systems
- E14 Microwave Photonic Components, Circuits and Systems

Field and Circuit Analysis, Simulation and Characterisation Techniques

- E15 Electromagnetic Field Theory and Numerical Techniques
- E16 Electromagnetic Modelling, Design and Optimisation, including Machine Learning and AI
- E17 Electromagnetic Compatibility and Interference, Signal Integrity
- E18 Modelling of Interaction of Electromagnetic Waves with Matter, Biological Effects
- E19 Measurement and Characterisation Techniques - Materials and Devices
- E20 Channel Characterisation
- E21 Antenna and Array Characterisation Techniques, OTA Testing

Antennas and Propagation

- E22 Microwave and Millimetre-Wave Antennas
- E23 Sub-THz and THz Integrated Antennas
- E24 Antenna Arrays (including beamforming networks and technologies), Smart Antennas, MIMO Antennas and Related Tx/Rx Module Technologies
- E25 Microwave and Millimetre-Wave Integrated Antennas and Reconfigurable Antennas

Systems and Applications

- E26 Microwave and Millimetre-Wave Systems
- E27 Sub-THz and THz Systems
- E28 Systems and Technologies for Joint Communication and Sensing
- E29 Systems for Space Applications
- E30 Biological and Medical Applications, Biomedical Sensing and Imaging, Dosimetry
- E31 Components and Systems for Microwave to THz Sensing, including Imaging and Remote Sensing Applications
- E32 Wireless Power Transfer and Energy Harvesting
- E33 Short-Range Wireless Applications, RFID, NFC, IoT, WSN
- E34 Wearable Microwave Components, Antennas and Systems
- E35 MIMO Antenna Systems, including Smart Antenna and Massive MIMO Systems
- E36 Wireless High-Data-Rate Communications and Cognitive Radio
- E37 Smart Factory, Mobility and Logistics
- E38 Quantum Microwave Systems and Applications

General Topics

- E39 Sustainability (including energy efficiency, eco-design) and Environmental Impact
- E40 Education in RF and Microwave Engineering



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CONFERENCE HIGHLIGHTS

The European Microwave Conference is the ideal event to become acquainted with the latest achievements in microwave theory, technology, systems, and applications. Through its multidisciplinary and highly interactive character, it offers second-to-none opportunities to network and interact with international experts from the industrial and academic fields. High-quality contributions, selected via a rigorous reviewing process, offer an unparalleled perspective on the state-of-the-art in the field. Keynote and invited presentations of leading specialists, as well as a variety of workshops, short courses and special sessions on the most current topics will complement the programme.

EuMW MICROWAVE PRIZE

The EuMC Technical Programme Committee and the EuMW Steering Committee will award the EuMC Microwave Prize of €5,000 to the author(s) of the best paper at the 55th European Microwave Conference. An extended version of the winning paper will be considered for publication in the International Journal of Microwave & Wireless Technologies.

EuMC YOUNG ENGINEERS PRIZE

The EuMC Technical Programme Committee and the EuMW Steering Committee will award two EuMC Young Engineer Prizes of €2,000 each to young engineers or researchers who have presented an outstanding paper at the European Microwave 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 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. An extended version of the winning papers will be considered for publication in the International Journal of Microwave and Wireless Technologies.

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 14 student grants of €750 and free EuMC registration. Applicants for a student grant must have their 31st birthday after the end of 2025, be a full-time student (i.e., an undergraduate or a Ph.D. student), and they will be asked to provide a supervisor's written confirmation of their current student status. 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 EuMC registration. Applications should be sent to the EuMW 2025 Grants and Visa Chair by emailing grants.eumw2025@eumwa.org within the deadline (see "Important Dates" section).

55TH EuMC TEAM

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Chair	Ioan Lager, Delft University of Technology	eumc.chair.eumw2025@eumwa.org
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