EuRAD 2025
The 22nd European Radar Conference

EUROPEAN RADAR CONFERENCE 2025
UTRECHT 24TH – 26TH SEPTEMBER 2025

The 22nd European Radar Conference (EuRAD 2025) will be held from the 24th to 26th September 2025 in Utrecht, The Netherlands, in the framework of the European Microwave Week 2025. This Radar Conference is the most important European event for the state-of-the-art and the future directions in the field of radar research, technologies, system design, and applications. The EuRAD conference will bring together a global network of researchers, practitioners, and institutes working on radar. The paper submission includes topics clustered around four main categories.

Radar Principles and Modelling comprises a wide range of radar systems and approaches, such as ultra-wide band, noise, quantum, polarimetric, MIMO, passive, HF and over the horizon, multistatic and networked radar. It also includes aspects of radar electromagnetic phenomenology and modelling, such as developing digital twins of radar systems, as well as the design and characterisation of radar waveforms.

Radar Technologies focusses on the various architectures and modules constituting a wide range of radar systems. Here, innovative research contributions are expected at multiple levels, from RF components, circuits and modules to entire multifunctional and reconfigurable architectures, from phased array technologies designed for long-range applications, to mm-wave and THz systems targeting shorter ranges with high resolution. Part of these topics are also research contributions and technologies in the area of waveform synthesis, receiver architectures, synchronisation, and joint sensing and communication, as well as results in the area of sustainable and energy-efficient technologies for radar manufacturing and design.

Radar Signal Processing, Algorithms and AI aims to attract research contributions in the wide areas of radar signal processing. This encompasses a wide range of techniques, including but not limited to beamforming, MIMO, detection, compressive sensing, tracking and data fusion, radar sensor management, imaging and super-resolution techniques, radar-based automatic target classification, cognitive techniques and spectrum sharing, as well as quantum computing algorithms applied to radar.

Finally, Radar Applications aims to include the vast number of domains where radar systems and techniques have been recently applied, from defence and security applications such as electronic surveillance and warfare and UAV monitoring, to civilian applications of radar in the medical, biological, and industrial fields, such as human activity monitoring and gesture recognition. Moreover, this category aims to attract novel contributions in the field of radar for automotive and transportation applications, as well as geoscience, environmental and weather monitoring, and space surveillance and exploration.

EuRAD 2025 CONFERENCE TOPICS

Radar Principles and Modelling

- R01 Ultra-Wideband, Noise, Quantum and Polarimetric Radar
- R02 Imaging, Short-Range and Synthetic Aperture Radar
- R03 MIMO and Passive Radar and Radar Networks
- R04 HF and Over-the-Horizon Radar Systems
- R05 Phenomenology, Modelling and Digital Twins
- R06 Radar Waveform Design

Radar Technologies

- R07 Radar RF Components, Circuits and Modules
- R08 Millimetre-Wave Radar, THz Technology and Systems, MIMO and Phased Arrays
- R09 Joint Sensing and Communication
- R10 Passive and Multi-Static Architectures
- R11 Multifunctional and Reconfigurable Architectures
- R12 Waveform Synthesis, Receiver Architectures, Synchronisation
- R13 Radar Manufacturing, Sustainable Techniques and Energy Efficiency

Radar Signal Processing and Artificial Intelligence

- R14 Beamforming, Multi-Antenna and MIMO Processing
- R15 Detection, Localisation, Compressive Sensing and Information Extraction
- R16 Tracking, Data Fusion and Sensor Management
- R17 Imaging, High-Resolution Techniques and Target Classification
- R18 Quantum Computing and Algorithms for Radar
- R19 Cognitive Techniques, Spectrum Sharing

Radar Applications

- R20 Defence, Electronic Surveillance and Electronic Warfare
- R21 Medical and Biological Applications
- R22 Human Activity Monitoring and Gesture Recognition
- R23 Automotive and Transportation
- R24 Geoscience, Weather and Environmental Remote Sensing
- R25 Space Surveillance and Exploration
- R26 Industrial and Novel Applications
- R27 Radar for UAVs and Security Applications

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CONFERENCE HIGHLIGHTS

The conference is the ideal event to keep up to date with the latest achievements in the field of radar and to interact with international experts from industry and academia. The conference brings together researchers and radar designers and developers from all over the world to stimulate development of new trends, products, and services. International experts will present keynote papers on topics of current importance and on the latest advances. Tailored short courses and workshops will complement the programme. Furthermore, the conference social events will allow all participants to network with the international radar community.

Eu*MA* RADAR PRIZE

The Eu*MA* Radar Prize(s) is/are awarded by the EuRAD Technical Programme Committee and the EuMW Steering Committee to the best paper(s) at the 22nd European Radar Conference. The value of a Eu*MA* Radar Prize is €3,000. An extended version of the winning paper(s) will be considered for publication in the International Journal of Microwave and Wireless Technologies.

EuRAD YOUNG ENGINEER PRIZE

The EuRAD Technical Programme Committee and the EuMW Steering Committee will award (a) EuRAD Young Engineer Prize(s) of €2,000 to young engineers or researchers who have presented an outstanding contribution at the European Radar 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.

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 and for military personnel (with proof of affiliation). The European Microwave Association will also provide up to five student grants of €750 and free EuRAD 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 EuRAD 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).

22ND EuRAD TEAM

Function	Name	Email
Chair	Laura Anitori, CNIT	eurad.chair.eumw2025@eumwa.org
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