



Call for Papers

Glasgow

UK

17 – 22 March 2024

18th European Conference on Antennas and Propagation

THE CONFERENCE

EuCAP is Europe's largest and most significant conference on antennas and propagation attracting more than 1500 participants from academia and industry, and more than 50 industrial exhibitors worldwide. It is an excellent forum for exchanging new technical-scientific achievements, demonstrating state-of-the-art technology, and establishing and strengthening professional networks.

EuCAP 2024 will give the opportunity to address some of the main challenges of our time for technical-scientific research in Antennas, Electromagnetics, Propagation and Measurements.

FORMAT OF THE CONFERENCE

The conference will comprise:

- Plenary sessions with invited and keynote speakers
- Oral and Poster sessions
- Short courses
- Industrial and scientific workshops
- Industrial exhibition

APPLICATION TRACKS

Aiming at increasing the interaction between academia and industry, the conference will feature session tracks focused on front-line applications.

BEST PAPER AWARDS

A Best Student Paper Award, and Best Paper Awards in the five categories: Antenna Theory and Design, Antenna Applied Technology, Electromagnetics, Propagation, and Measurement are planned.

GRANTS

A number of grants covering travel and registration will be offered to selected authors. Please see the conference homepage for more information (www.eucap2024.org).

AMTA EUROPE

The Antenna Measurement Techniques Association (AMTA) is strongly involved in the conference. AMTA will contribute with invited speakers, provide special sessions, cooperate in the application tracks, and sponsor the technical tours.

AUGMENTED PAPERS PUBLICATION

Authors can apply for publication in a special issue of the International Journal of Microwave and Wireless Technologies (EuMA) during the submission process.

EXHIBITION AND SPONSORSHIP

The conference will provide numerous opportunities for exhibitors and sponsors, according to their strategic visibility and publicity targets. Coffee breaks and lunches will be served in the exhibition area to increase the interaction between participants and exhibitors. Please see the conference homepage for more information.

GLASGOW, SCOTLAND

As the birthplace of James Clerk Maxwell, Scotland has a long history relating to Electromagnetism that derives from the early days marked by theoretical foundations, throughout the years of radar technology development and more recently complemented by a flourishing New Space sector.

Scotland's largest city, Glasgow, is home to one of the most collaborative and dynamic innovation economies in Europe, with outstanding partnerships between the public, private and academic sectors. It is home to the largest academic community in the UK outside London and the city in Europe that manufactures most satellites. Glasgow is excellently connected with the World and easily accessible by train, sea, road, and three airports. Glasgow boasts beautiful architecture, excellent venues and world-class museums and galleries offering visitors a vibrant arts scene.

Information for Authors

Authors are invited to submit papers in PDF format, with a minimum length of two and a maximum length of five A4 pages.

The paper must contain enough information for the Technical Programme Committee and reviewers to assess the quality of the work in a single acceptance/ rejection review process. It will be possible to revise accepted papers in line with the reviewers' comments.

Submit your paper online at www.eucap2024.org no later than **13 October 2023**. The submission requires an EDAS® account, which is free.

Presented papers will be included in IEEE Xplore, if the authors choose this option during the submission process. Compliance with the IEEE format is mandatory in this case.

At least one of the authors of each paper must register as a delegate attending the conference. Each delegate can register a maximum of two papers in her/his name as "presenting author".

Important Dates

Deadline: 13 October 2023
Notification: 18 December 2023
Revised paper: 09 Feb. 2024

Firm Deadline

For EuCAP 2024, there will be no extension of the paper submission deadline; late or updated submissions will not be accommodated after the deadline.

Conference Topics and Application Tracks

Antenna Topics

A01	Antenna theory, analysis and design
A02	Antenna technologies (including additive manufacturing)
A03	Active and passive arrays
A04	Mm-wave, sub mm-wave, THz and nano-optical antennas
A05	Multiband, wideband (incl. UWB) and multifunctional antennas
A06	Electrically small antennas
A07	Wearable and implantable antennas
A08	Lens antennas, reflectors, feed systems and components
A09	Reflectarrays and transmitarrays
A10	Slotted-waveguide & leaky-wave antennas
A11	Adaptive and reconfigurable antennas
A12	In-package and on-chip antennas
A13	MIMO, diversity, smart antennas & signal processing
A14	Antennas for RFID/sensors, wireless power transmission and harvesting
A15	Other antenna topics

Propagation Topics

P01	Propagation theory and deterministic propagation modelling
P02	Empirical and statistical propagation modelling
P03	Channel sounding and parameter estimation techniques
P04	Propagation measurements
P05	Mm-wave, THz and UWB propagation
P06	Machine learning and artificial intelligence for propagation
P07	Propagation for vehicular communications
P08	Body propagation, effects of biological tissues on propagation
P09	Radar, localization, and sensing
P10	Other propagation topics

Measurements Topics

M01	Material characterizations and non-destructive testing
M02	Near-field, far-field, compact and RCS measurement and calibration techniques
M03	Data acquisition, imaging algorithms and measurement post-processing
M04	Measurement range evaluation and EMI/EMC/PIM instrumentation
M05	UAV- and robotic based measurements
M06	Dosimetry, exposure and SAR assessment
M07	Satellite and aerospace antenna characterisation
M08	Mm-wave, THz and quasi-optical antenna measurements
M09	MIMO, OTA and 6G antenna testing
M10	General antenna measurements and other topics

www.eucap2024.org

Electromagnetics Topics

E01	Electromagnetic theory
E02	Computational and numerical techniques
E03	Optimisation methods and machine learning in EM and antenna design
E04	Imaging and inverse scattering
E05	Scattering, diffraction and high frequency techniques
E06	Frequency/polarization selective surfaces and periodic structures
E07	Metamaterials and metasurfaces
E08	Electromagnetic education
E09	Other EM topics

Application Tracks

T01	Sub-6 GHz for terrestrial networks (5G/6G)	T06	Biomedical and health
T02	Mm-wave for terrestrial networks 5G/6G	T07	THz and high frequency technologies
T03	Aerospace, new space and non-terrestrial networks	T08	EM modelling and simulation tools
T04	RF sensing for automotive, security, IoT, and other applications	T09	Novel materials, metamaterials, metasurfaces and manufacturing processes
T05	Positioning, localization, identification & tracking	T10	Fundamental research and emerging technologies

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