



## Call for Papers

Florence  
Italy  
26 – 31 March 2023

### 17<sup>th</sup> European Conference on Antennas and Propagation

#### THE CONFERENCE

EuCAP is Europe's largest and most significant conference on antennas and propagation attracting more than 1400 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 2023 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 sessions (both convened and regular)
- 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; see the backside.

#### BEST PAPER AWARDS

A Best Student Paper Award and Best Paper Awards in the four categories Antennas, Electromagnetics, Propagation, and Measurement are planned at EuCAP2023.

#### GRANTS

A limited number of grants covering both travel and registration will be offered to selected authors of high-quality papers. Please see the conference homepage for more information ([www.eucap2023.org](http://www.eucap2023.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 International Journal of Microwave and Wireless Technologies (EuMA) during the submission process. Please see the conference homepage for more information

#### 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.

#### FLORENCE

Florence is a perfect location since it represents modernity in a historical environment, offering all the facilities of a modern city but in a renaissance environment rich in suggestive scenarios. This feature, the lively cultural atmosphere, the excellent Italian food, and the Mediterranean spring climate will offer an unforgettable experience to all the participants.

#### 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.eucap2023.org](http://www.eucap2023.org) no later than **14 October 2022**. 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: 14 October 2022  
Notification: 19 December 2022  
Revised paper: 27 January 2023

#### Firm Deadline

For EuCAP 2023, 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 systems and architectures
A02	Antenna theory
A03	Design and technologies for array antennas
A04	Analysis of array antennas
A05	Antenna interactions and coupling
A06	Mm-wave antennas
A07	Sub mm-wave, THz and nano-optical antennas
A08	Multiband and multifunctional antennas
A09	Wideband and UWB antennas
A10	Electrically small antennas
A11	Wearable and implantable antennas
A12	Lens antennas
A13	Reflector, feed systems and components
A14	Reflectarrays and transmitarrays
A15	Slotted-waveguide and leaky-wave antennas
A16	Adaptive and reconfigurable antennas
A17	In-package and on-chip antennas
A18	MIMO, diversity, smart antennas & signal processing
A19	RFID antennas/sensors and systems
A20	Antennas for wireless power transmission and harvesting
A21	Additive manufacturing for antennas
A22	Other antenna topics

Propagation Topics	
P01	Propagation theory and deterministic propagation modelling
P02	Empirical and statistical propagation modelling
P03	Channel sounding and multi-dimensional parameter estimation techniques
P04	New propagation measurement campaigns
P05	Mm-wave, THz and UWB propagation
P06	Machine learning and artificial intelligence for propagation
P07	Satellite propagation
P08	Propagation for vehicular communications
P09	Body propagation, effects of biological tissues on propagation
P10	Radar, localization, and sensing
P11	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	EMI/EMC/PIM instrumentation and measurements
M05	Measurement range evaluation
M06	UAV- and robotic based measurements
M07	Dosimetry, exposure and SAR assessment
M08	Satellite and aerospace antenna characterisation
M09	Mm-wave, THz and quasi-optical antenna measurements
M10	MIMO, OTA and 6G antenna testing
M11	General antenna measurements and other topics

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, artificial materials, and metasurfaces
E08	Nano-electromagnetics
E09	Electromagnetic education
E10	Other EM topics

Application Tracks	
T01	Sub-6GHz cellular
T02	Mm-wave and THz cellular
T03	Wireless LANs, IoT and M2M
T04	Biomedical and health
T05	Aircraft (incl. UAV, UAS, RPAS) and automotive
T06	Defence and security
T07	Positioning, localization & tracking
T08	Space technologies, e.g. cubesats, satellite networks
T09	EM modelling and simulation tools
T10	Fundamental research and emerging technologies
T11	Smart surfaces (RIS, LIS) for 5G and B5G systems

[www.eucap2023.org](http://www.eucap2023.org)

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