EuCAP 2021

15th European Conference on Antennas and Propagation

Call for Papers

Düsseldorf, Germany
March 22–26, 2021

THE CONFERENCE

EuCAP is Europe's largest and most significant antennas and propagation conference attracting more than 1400 participants from academia and industry, and more than 50 industrial exhibitors, from all over the world. It is a great forum for exchange of new technical-scientific achievements, for demonstrating state of-the-art technology, and for establishing and strengthening professional networks.

The 2021 host country Germany has a strong antennas and propagation community both in academia and industry. Moreover, antennas and propagation play a central role in the current transition of Germany's strong automotive industry towards digitally connected cars and autonomous driving. Finally, many cellular operators and telecommunications equipment vendors have large branches and even headquarters in the host city Düsseldorf and the Rhine-Ruhr-Area, leading the development of 5G. Therefore, EuCAP 2021 will be a unique place to strengthen the link between the scientific antennas and propagation community and the automotive as well as the 5G industry.

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 reverse side.

BEST PAPER AWARDS

For EuCAP 2021 there will be a Best Student Paper Award and Best Paper Awards in the four categories Antennas, Electromagnetics, Propagation, and Measurement.

GRANTS

A limited number of grants covering both travel and registration will be offered to selected authors of high-quality papers. More information will be published at www.eucap2021.org.

IMPACT OF COVID-19

The EuCAP Conference Organising Committee, the EuCAP Steering Committee and EurAAP will carefully monitor the worldwide development of COVID-19 and are taking already all the necessary steps enabling virtual presentations and other online elements for those who may not attend EuCAP 2021 physically due to travel restrictions.

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.

IET AND EuMA

Authors can apply for publication in a special issue of either Microwaves, Antennas & Propagation (IET) or International Journal of Microwave and Wireless Technologies (EuMA) during the submission process. Please see the conference home page 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, in order to increase the interaction between participants and exhibitors. Please see the conference homepage for more information.

DÜSSELDORF

Düsseldorf is a vibrant city with a cosmopolitan way of life and a high living standard. It is also an important venue for conferences and trade fairs, with the corresponding infrastructure such as a modern conference centre, with a large exhibition area, efficient public transport, a large choice of hotel rooms and great variety of restaurants. Düsseldorf is well connected to the European railway network and offers direct flight connections worldwide. With its lively districts, its Rhine Promenade, and the beautiful Old Town known as the "longest bar in the world", with 260 restaurants and pubs concentrated within 1km², Düsseldorf's open and welcoming character makes it the perfect place for EuCAP 2021.

INFORMATION FOR AUTHORS

Authors are invited to submit papers online 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.eucap2021.org no later than 16 October 2020. The submission requires an EDAS® account, which is free. Presented papers will be proposed for inclusion in IEEE Xplore, if the authors choose this option during the submission process. Compliance to the IEEE format is mandatory in this case.

At least one of the authors of each paper must register as delegate for attending the conference. A delegate cannot register more than two papers in his/her name as "presenting author".

FIRM DEADLINE

Please recall the EurAAP policy for EuCAP: there will be no extension of the paper submission deadline; late or updated submissions will not be accommodated after the deadline.

EurAAP

IMPORTANT DATES

Deadline 16 October 2020

Notification 22 December 2020

Revised paper 5 February 2021

www.eucap2021.org

EuCAP 2021

Conference Topics and Application Tracks

Antenna Topics	
A01	Antenna theory
A02	Antenna interactions and coupling
A03	Sub mm-wave, THz and nano-optical antennas
A04	Mm-wave antennas
A05	Machine learning for antennas
A06	Conformal antennas
A07	Dielectric resonator antennas
A08	Electrically small antennas
A09	Lens antennas
A10	Slotted-waveguide and leaky-wave antennas
A11	Multiband and wideband antennas
A12	Wearable and implantable antennas
A13	Adaptive and reconfigurable antennas
A14	Active and integrated antennas
A15	RFID antennas/sensors and systems
A16	UWB antennas and time-domain techniques
A17	Array antennas
A18	Reflector, feed systems, and components
A19	Reflect arrays and transmit arrays
A20	Antennas for wireless power transmission and harvesting
A21	Additive manufacturing
A22	MIMO, diversity, smart antennas & signal processing
A23	Antenna systems and architectures
A24	Other antenna topics

Electromagnetics Topics	
E01	EM theory
E02	Analytical techniques
E03	Computational and numerical techniques
E04	Optimisation methods and machine learning in EM
E05	Imaging and inverse scattering
E06	Scattering and diffraction
E07	Frequency and polarization selective surfaces (incl radomes)
E08	Metamaterials, metasurfaces and EBG
E09	Nano-electromagnetics
E10	EM education
E11	Other EM topics

Measurements Topics	
M01	Material characterisation and non-destructive testing
M02	Radar scattering measurement and calibration techniques
M03	Near-field, far-field, compact and RCS range measurement techniques
M04	Data acquisition, imaging algorithms and processing methods
M05	EMI/EMC/PIM chambers, instrumentation, and measurements
M06	Dosimetry, exposure, and SAR assessment
M07	Satellite and aerospace antenna characterisation
M08	Mm-wave, THz, and quasi-optical antenna measurements
M09	MIMO and OTA testing
M10	General antenna measurements and other 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 experimental methods and campaigns
P05	Mm-wave and UWB propagation
P06	Indoor and Urban propagation
P07	Machine learning for propagation
P08	Satellite propagation
P09	Propagation for vehicular communications
P10	Propagation in biological tissues
P11	Body-area propagation
P12	Radar, localisation, and sensing
P13	Radio science and remote sensing
P14	Other propagation topics

Application Tracks	
T01	LTE and Sub-6GHz 5G
T02	Millimetre wave 5G
T03	Wireless LANs
T04	IoT and M2M
T05	Biomedical and health
T06	Aircraft (incl. UAV, UAS, RPAS) and automotive
T07	Defence and security
T08	Positioning, localization & tracking
T09	Space (incl. cubesat)
T10	EM modelling and simulation tools
T11	Fundamental research and emerging technologies

www.eucap2021.org

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