

IEEE MICROWAVES, ANTENNAS AND PROPAGATION CONFERENCE (MAPCON) - 2023

www.ieeemapcon.org

10th - 14th Dec, 2023 | AHMEDABAD, INDIA

IEEE Microwaves, Antennas and Propagation Conference, MAPCON-2023 will be held from December 10-14, 2023 at The Forum Celebration & Convention Centre of Wyndham Hotel at Ahmedabad, India. This is the second edition of MAPCON co-sponsored by IEEE MTT-S and IEE AP-S. The conference will be held in physical mode. This Conference provides an excellent international platform for sharing of state-of-the-art research/technologies in the field of microwaves and antennas, wherein many national/international eminent personalities will share their vision, expertise and knowledge. MAPCON-2023 will include a wide range of technical sessions, invited talks, workshops, tutorials, special sessions, student design competitions, industry sessions, exhibits, professional meetings, tours and networking events. It will also hold Ph.D. initiative activities, YP, WIE, SIGHT and start-up initiative activities.

CALL FOR PAPERS

Authors are invited to submit technical papers of 3-4 pages in length describing their original research work in the following areas (but not limited to) :-



TRACK-1 : ANTENNAS & PROPAGATION

- Phased array antennas
- Reflector and reflect-array antennas
- Horn antennas & feed components
- Planar antennas
- Frequency selective surfaces
- Radar and remote sensing antennas
- Satellite antennas and payloads
- Aircraft antennas
- Antennas for seekers and defense applications
- Ultra wide band and multi-band antennas
- RFID antennas and systems
- Scattering and diffraction

- Dielectric resonator antennas
- Metamaterial, metasurface and EBG antennas
- Reconfigurable antennas and arrays
- EM theory and computational EM
- Adaptive, active and smart antennas
- MIMO and 5G antennas
- Millimeter-wave & terahertz antennas
- Embedded and wearable antennas
- Conformal antennas
- Beamforming techniques
- Propagation studies and experiments
- Slotted and guided wave antennas

TRACK-2 : RF/MICROWAVES

- High power microwaves, tubes, gyatron
- Evolution of semiconductor technologies in RF, Microwaves, mm wave, THz
- Passive components and circuits
- Active devices and circuits
- RFICs and MMICs
- MIMO techniques
- Novel waveguides and new phenomena in waveguides
- Plasmonic devices and their applications
- Microwave, millimeter-wave and THz systems
- Radar, SAR and microwave imaging
- RF sensors and testing techniques
- Microwave materials and processing
- Packaging, MCM and 3D manufacturing techniques

- Wireless and cellular architectures, components and circuits
- Numerical techniques and CAD algorithms
- Mixed signal and wireline ICs
- Payload technologies for satcom, navigation and remote sensing
- Medical/industrial applications of microwaves
- RF systems for emerging telecommunication infrastructure
- RF technologies for space and defense applications
- RF technologies for 5G/6G and beyond
- Doppler, short range, autonomous vehicle radars
- Microwave ferrite, ferroelectric and MEMS components

TRACK-3 : EMERGING TECHNOLOGIES AND APPLICATIONS

- Microwave remote sensing applications
- Quantum devices, systems and applications
- Microwave photonics and nano technology
- RF energy harvesting and wireless power transfer
- Software defined /cognitive radio
- On chip antennas
- 3D printed microwave antennas and structures
- AI/ML for RF & mm wave
- CubeSat/ NanoSat technologies
- mm wave/ THz imaging for bio- medical applications
- Invasive/Non-invasive surgery

TRACK-4 : MEASUREMENTS

- Advances in antenna measurements: Compact range, near field, far field, drones etc.
- Microwave holography
- High power tests (Multipaction / PIM)
- Microwave measurements
- Electromagnetic interference and compatibility (EMI/EMC)
- Characterization of antennas/payloads/radomes
- Microwave absorbers

GENERAL CO-CHAIRS

Rajeev Jyoti
Jaleel Akhtar

TECHNICAL PROGRAM CO-CHAIRS

Milind Mahajan
Nagendra Prasad Pathak

FINANCE CO-CHAIRS

Prateek Bansal
Jaswant Sharma

MAPCON EXECUTIVE COMMITTEE

Yahia Antar (Co-Chair)
Goutam Chattopadhyay (Co-Chair)

Rajeev Jyoti	Shiban Koul
Debatosh Guha	K.J. Vinoy
Puneet K. Mishra	Jaleel Akhtar
Chinmoy Saha	Sherry Hess

For Sponsorships and other general clarifications related enquiries: mapcon2023@ieeemapcon.org

IMPORTANT DATES	PAPER SUBMISSION STARTS	: MAY 15, 2023
	PAPER SUBMISSION ENDS	: JULY 31, 2023
	NOTIFICATION OF ACCEPTANCE	: AUGUST 31, 2023

AWARDS	MAPCON Best Paper Awards (Academia & Industry)
	MAPCON Best Student Paper Awards
	MAPCON Best Student Design Contest Awards
	MAPCON Travel Grants