



December 14 - 18, 2026
ieeemapcon.org

Microwaves, Antennas and Propagation Conference - 2026

Organized by: IEEE MTT-S & AP-S Nagpur Chapter and IEEE Maharashtra Section

 **Indian Institute of Management Nagpur**
Plot No. 1 Sector 20, MIHAN (Non-SEZ) Nagpur-441108,
Maharashtra, India



General Chair

Ashwin Kothari
Professor Visvesvaraya National Institute of
Technology (VNIT) Nagpur, Maharashtra,
India
M. V. Kartikeyan
Professor and Director Indian Institute of
Information Technology Design and
Manufacturing, Kancheepuram, Tamil Nadu,
India

Convenor

Puneet Kumar Mishra
Head Electrical Integration Section - 3, U R
Rao Satellite Centre (URSC), Indian Space
Research Organization (ISRO) Bengaluru,
Karnataka, India

Technical Program Chair

Mahesh Abegaonkar
Professor, CARE,
Indian Institute of Technology (IIT)
Delhi, India
Chandrakanta Kumar
Project Director, U R Rao Satellite Centre
(URSC), Indian Space Research
Organization (ISRO) Bengaluru, Karnataka,
India
Mrinal Kanti Mandal
Professor, Indian Institute of Technology (IIT)
Kharagpur, West Bengal, India

Finance Chair

Abhay Gandhi
Professor, Visvesvaraya National Institute of
Technology (VNIT) Nagpur, Maharashtra,
India

Finance Co-Chair

Arvind Kumar
Assistant Professor
Visvesvaraya National Institute of
Technology (VNIT) Nagpur, Maharashtra,
India

Organizing Secretaries

Ankita Harkare
RBU, Nagpur, India
Paritosh Peshwe
IIT, Nagpur, India

MAPCON

Executive Committee

AP-S

Christophe Fumeaux (Chair)
Mahesh Abegaonkar
Ajay Poddar
Jawad Siddiqui
Puneet Mishra

MTT-S

Goutam Chattopadhyay (Chair)
Jaleel Aktar
Chinmoy Saha
Ashutosh Kedar
Shobha Sundar Ram

EMC-S

Vignesh Rajamani

Patrons

C. J. Reddy
President, IEEE Antennas Propagation
Society

Anding Zhu

President, IEEE Microwave Theory and
Technology Society

Microwave technology and antennas play a pivotal role in modern wireless communications, defence and space technologies. In order to support advancements in these fields, the IEEE Microwave Antennas and Propagation Conference (MAPCON) is a joint flagship conference of IEEE Microwave Theory & Technology (MTT) and IEEE Antenna Propagation (AP) societies in India. This mega-annual event of the radio frequency (RF), microwave, and antenna community provides an international platform to researchers, working professionals, academicians, and industries to showcase their state-of-the-art research / technologies to co-workers / peers. MAPCON 2026, the 5th edition of the conference will be held from 14th to 18th December 2026 at sprawling campus of Indian Institute of Management, Nagpur, Maharashtra, India. Nagpur city located at the heart of India, is well known as Orange city, Tiger Capital and Zero mile of India. The Conference is co-organized by the IEEE MTT-S and AP-S Nagpur Chapters. MAPCON 2026 will feature technical sessions, poster sessions, special sessions, keynote / plenary / invited talks, workshops, and tutorials. Focused tracks on Young Professionals, Women in Engineering, SIGHT, Student design contests, Start-Up India, India Semiconductor Mission, and Aerospace & Defence industry Focus, etc. which will add to the technical breadth of the conference. Eminent professionals from international space and defence establishments, National Research Organizations, academia, and industries will deliver expert talks and tutorials and organize special sessions related to recent developments in these domains.

CALL FOR PAPER

Authors are invited to submit their original research work in the form of a technical paper (3-4 pages) in the following areas (but not limited to). Detailed instructions on submission can be found on our conference website.

Track-I: RF & Microwave Components, Circuits and Systems

- High power microwave tubes, Gyatron
- Evolution of semiconductor technologies in RF, Microwaves, mm-wave, THz
- Passive components and circuits
- Active devices and circuits
- RFICs and MMICs
- Novel waveguides and new phenomena in waveguides
- Plasmonic devices and their applications
- Microwave, millimeter-wave and THz systems
- Radar, SAR and microwave imaging
- Microwave materials and processing
- Packaging, MCM and 3D manufacturing techniques
- Wireless and cellular architectures, components and circuits
- 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 defence applications
- Automotive radars
- Microwave ferrite, ferroelectric and MEMS components

Track-II: Antennas & Propagation

- Microstrip and printed antennas
- Dielectric resonator antennas
- Antennas arrays and mutual coupling
- Horn, reflector and reflect-array antennas
- Slotted and guided wave antennas
- Metamaterial antennas
- Ultra-wideband and multi-band antennas
- Phased array antennas
- Antenna feeds and matching circuits
- Electrically small antennas
- RFID antennas and systems
- Satellite antennas and payloads
- Reconfigurable antennas and arrays
- Adaptive, active and smart antennas
- Vehicular and UAV antennas
- MIMO and 5G antennas
- Millimeter-wave & terahertz antennas
- Embedded and wearable antennas
- On-chip antennas
- Millimeter-wave and sub-mm-wave antennas
- THz, infrared and optical antennas
- Radars for UAV
- Ground penetrating radar
- Radar imaging, advances in SAR
- Scattering and diffraction
- Beamforming techniques

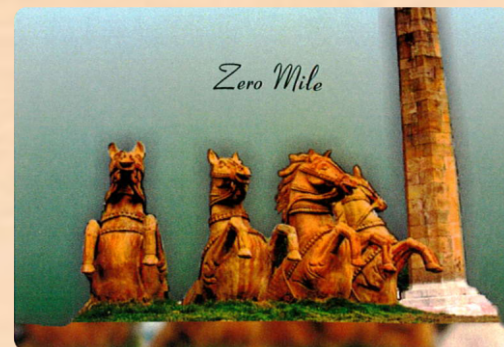
Track-III: Electromagnetic Theory, Metamaterials and Metasurfaces

- Electromagnetic theory
- Numerical methods and computational electromagnetic
- Electromagnetic material properties and measurements
- Frequency-selective surfaces
- Electromagnetic bandgap materials
- Metamaterials and metasurfaces
- Photonic crystals
- Intelligent (and holographic) surfaces
- Applications of metamaterials and metasurfaces
- Nano-electromagnetics

Organized by: IEEE MTT-S & AP-S Nagpur Chapter and IEEE Maharashtra Section

Track-IV: THz & Photonics Technologies

- THz sources
- THz detectors
- THz spectroscopy
- THz imaging
- THz components
- THz applications
- Optical-pump-THz-probe spectroscopy
- THz sensing and analysis
- THz wireless communication
- THz remote-sensing
- 3D THz tomography system
- Industrial applications of THz
- THz space communication
- Photonics technology and systems
- Microwave photonics
- Quantum technologies
- Plasmonics and nano photonics
- Quantum radar
- Free space optical communication



Track-V: 5G/6G Research and Beyond

- RF technologies for 5G/6G and beyond
- MIMO and 5G antennas
- Channel modelling
- Reconfigurable antennas and arrays for 5G/6G
- Wireless and cellular architectures
- Wireless & mobile communications for 5G/6G
- Non-terrestrial communications
- Underwater communications
- Smart grid communications
- Machine learning for communications
- Quantum communications and computing
- Integrated sensing and communication

Track-VI: Measurement Techniques

- Advances in antenna measurements
- Compact range, near field and far field measurements
- High power measurements (multiplication / PIM)
- Microwave and mm-wave measurements
- Electromagnetic interference and compatibility (EMI / EMC) testing and characterization
- Characterization of antennas / payloads / radomes
- Microwave absorbers

Track-VII: Electromagnetics in Biology & Medicine

- Body-area networks
- Dosimetry and exposure assessment
- Electromagnetic and mixed-mode imaging and diagnostics
- Therapeutic and rehabilitative applications
- Implantable and ingestible devices
- Human-body interactions with antennas and other electromagnetic devices
- Millimeter-wave / THz imaging for bio-medical applications
- Molecular, biological, and multiscale communications

Track VIII: Electromagnetic Environment and Interference

- Electromagnetic environment
- Electromagnetic compatibility measurement technologies
- Electromagnetic compatibility standards
- Electromagnetic radiation hazards
- Electromagnetic compatibility education
- Computational electromagnetics in electromagnetic compatibility
- Effects of natural and intentional emissions on system performance
- High-power electromagnetics
- Spectrum compatibility issues, usage and management.

Track IX: Wireless Power Transfer and Energy Harvesting

- Near-field inductive and capacitive transfer
- Far-field and radiative wireless power transfer
- Energy harvesting / scavenging
- Materials, components, and systems considerations
- Detection, alignment, communications, control
- High frequency power transmitters and rectifiers
- High frequency coils, rectennas and rectenna arrays
- Backscattering, RFID and electronic tags
- Devices & circuits for energy harvesting / scavenging
- Mobile, wearable and implantable devices

Track-X: Emerging Technologies and Applications

- Point-to-point propagation effects
- Microwave remote sensing of the Earth
- Propagation and remote sensing in complex and random media
- Quantum devices, systems and applications
- Microwave photonics and nanotechnology
- Software-defined / cognitive radio
- 3D-printed microwave antennas and structures
- Additive manufacturing technologies
- Flexible Electronics
- AI / ML for RF & mm-wave
- CubeSat / NanoSat technologies
- Propagation and remote sensing in complex and random media
- Weather radar systems

IMPORTANT DATES

Paper Submission Starts

April 02, 2026

Paper Submission Deadline

August 30, 2026

Notification of Paper Acceptance

September 05, 2026

Camera Ready Submission Deadline

September 30, 2026

Conference Date

December 14-18, 2026

A W A R D S



MAPCON Best Paper Award
(Academic and Industry)



MAPCON Best Student Paper Award
(1st Position)



MAPCON Student Design Contest Award



MAPCON VP Best Paper Award
(Male and Female)



MAPCON Best Student Paper Award
(2nd Position)



MAPCON Travel Grants

For more information, kindly visit

W: www.ieeemapcon.org | E: info.ieeemapcon2026@gmail.com

Organized by: IEEE MTT-S & AP-S Nagpur Chapter and
IEEE Maharashtra Section

