Shri Vile Parle Kelavani Mandal's

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Autonomous College Permanently Affiliated to the University of Mumbai)

NAAC Accredited with "A" Grade (CGPA : 3.18)

INTERNATIONAL CONFERENCE
ON
MICROWAVE AND ANTENNA DESIGN

8th - 9th March, 2024

Organized by

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ABOUT ICMAD 2024

In Modern day communication, with the increase in spectrum requirements, most of the Wireless Communication Systems are designed in Radio Frequency spectrum & above, i.e. for frequencies above 1 GHz, range. Above this frequency range, high frequency design for circuits and antenna has a major role to play which have profound influence on the various applications. In view of this and in continuation with the series of the conferences organized in the past, International Conference on Microwave & Antenna Design (ICMAD) 2024 is being organized. The ICMAD 2024 will focus on the advances in various aspects of Microwave and Antennas. The conference will help to unite Academic scientists, Engineers and Industry researchers for exchanging their experiences, research results and for the discussion of the current practical challenges.

IMPORTANT DATES

Paper Submission: 31th August, 2023
Notification Acceptance: 15th October, 2023
Registration Deadline: 10th November, 2023

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TOPICS COVERED

Microwave Theory

- RF and microwave circuit design,
- Physical aspects of RF and microwave devices,
- Transmission line elements,
- Passive circuit elements
- Planar passive filters and multiplexers
- Non-planar passive filters and multiplexers
- Active, tunable and integrated filters
- MEMS components and technologies
- Semiconductor devices and monolithic ICs
- HF, VHF and UHF technologies and applications
- Power amplifier devices and circuits
- Low noise components and receiver
- mm-Wave and THz components and technologies
- Measurement techniques
- Biological effects and medical applications
- Radar and broadband communication systems
- High power microwave industrial applications
- Microwave/RF devices for wireless health care applications
- Multiband, broadband, tunable, and reconfigurable filters
- Resonators, directional couplers and hybrids
- 2D/3D printed RF and microwave components
- Micro-machined transmission lines and waveguides
- Microwave and millimetre wave systems
- Microwave device modelling
- MIMO components
- Novel waveguides and new phenomenon in waveguides
- Passive components (filters, couplers, transitions, etc)
- RF MEMs and micro-systems
- RF Nanotechnology: Carbon, semiconductors and other novel material-based nanotechnology, nanodevices, metamaterials and nanoscale RF components

Antenna Design

- Antenna Theory
- Antenna Arrays (planar/printed)
- Conformal Antennas
- Microstrip Antennas
- Artificial Magnetic Conductors
- Fractal Antennas
- Frequency Selective Surfaces
- Electromagnetic Numerical Techniques
- Millimeter-wave/Terahertz Communications
- UWB Communications
- Wideband/Broadband/Multiband Antennas
- MIMO and Smart Antennas
- Antenna Measurements (Compact Range, Near Field, Far Field, Drones etc.)
- Study of scattering characteristics
- 5G Antennas
- Antenna Devices and Techniques
- Antenna design, modelling, simulation
- Small Antennas and RF sensors
- Antennas for Mobile and V2X applications
- Active, adaptive, on chip antenna
- Tunable and Reconfigurable Antennas
- Millimeter wave, Terahertz and optical antenna
- Metamaterial , metasurfaces and EBG Antennas
- Antenna system for Mobile communication
- Phased array antennas
- Reflector and reflect-array antennas
- Horn antennas & Feed components
- Radar and remote sensing antennas
- Satellite antennas and payloads
- Aircraft antennas
- Antennas for seekers and defence applications
- Ultra Wide Band antennas
- Dielectric resonator antennas
- Characterization of Antennas/Payloads/Radomes
- Embedded and wearable antennas