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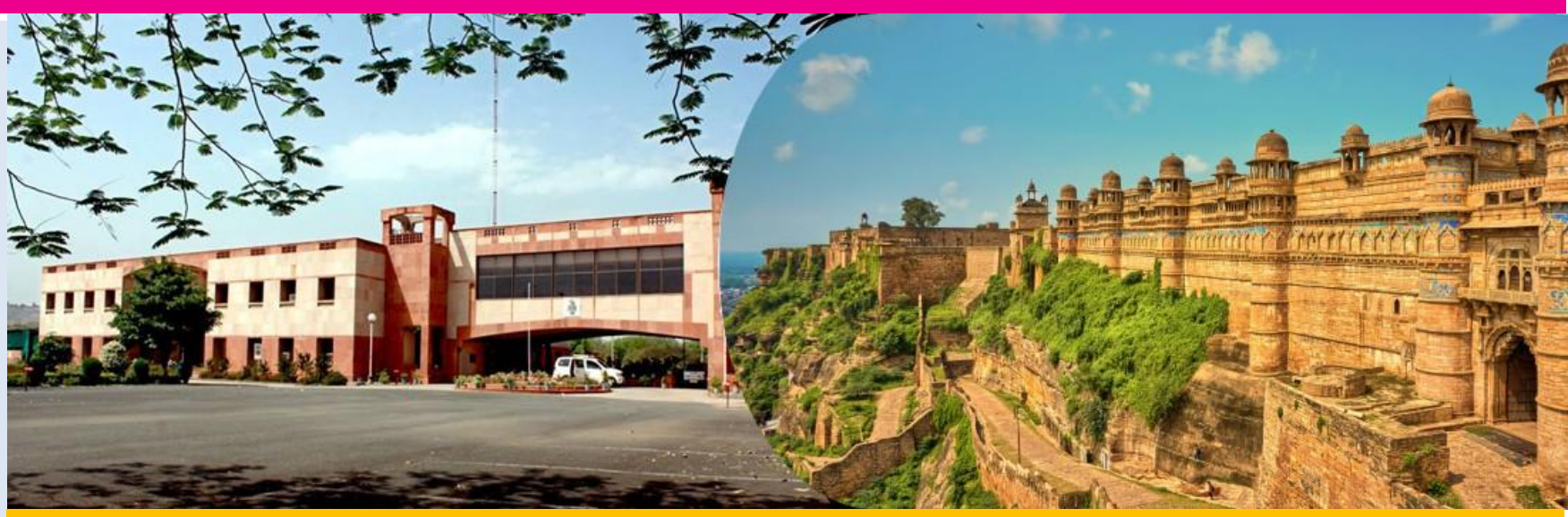
CALL FOR PAPERS (Special Session on "Advances in Smart Antenna Design for 5G and Beyond Communication System")



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Important Dates:

Last Date Submission: January 21, 2026

Acceptance Date: February 01, 2026

Camera Ready Paper and Registration Date: February 10, 2026

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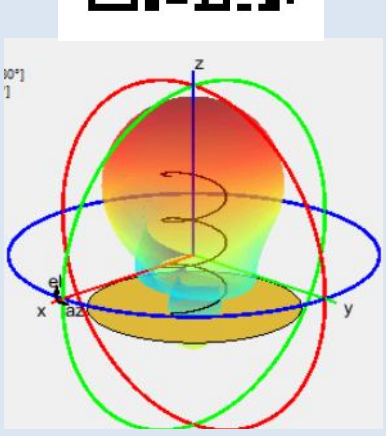

Technical Outline of Session:

The need for intelligent, flexible, and high-performing antenna systems has increased due to the rapid development of wireless communication toward 5G and beyond (6G). Enhanced spectral efficiency, high data speeds, reduced latency, beam steering, and vast connectivity, all necessary for next-generation communication networks, are made possible by smart antenna technology. In order to present and debate new developments, design problems, and future trends in smart antenna systems for 5G and beyond communication paradigms, this special session will bring together researchers, academics, and industry professionals. Innovative antenna designs, AI/ML-assisted antenna design and optimization, reconfigurable and intelligent surfaces, MIMO and massive MIMO systems, mmWave/THz antennas, conformal and wearable antennas, and their integration with future wireless platforms will all be covered in this session. This special session aims to encourage multidisciplinary cooperation and innovative solutions addressing the technical problems of future wireless communication systems by offering a dedicated venue for cutting-edge research and practical implementations.

Tentative Topics of the Session, but not limited to:

- Smart and adaptive antenna systems
- Antenna design for 5G, 6G, and beyond
- MIMO and massive MIMO antenna architectures
- Beamforming and beam-steering techniques
- AI/ML-driven antenna design and optimization
- Reconfigurable, tunable, and cognitive antennas
- Metasurface and metastructure-based antennas
- mmWave and THz antenna design
- Compact, conformal, and wearable antennas
- Antennas for IoT, UAV, satellite, and vehicular communications
- Antenna measurement, characterization, and prototyping
- Integration of antennas with RF front-end and communication systems

Target Audience

- Researchers and academicians in antennas and wireless communications
- Industry professionals and R&D engineers
- PhD scholars and postgraduate students
- Professionals working on 5G/6G, IoT, UAV, and satellite

Submission Link: https://iatmsi.iiitm.ac.in/call-for-papers-special-sessions/