

Call for Papers

Special Session on

“Intelligent techniques of electromagnetic system design for 5G and Beyond” (ITES-22)

Session Chairs:

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Theme of Session:

This special session is devoted to principles, design, modeling, applications, security and analysis for the exchange of information on research and development in Modern antennas, propagation, applied electromagnetics and other related topics. The latest techniques based on evolutionary computing tools and machine learning has outperformed the conventional techniques in antenna and other electromagnetic system design. It is essential to adopt the intelligent techniques which are highly adaptive to the design specifications and does not need much expertise during the deployment and operations. Hence this session invites new findings in the techniques for design, novel models of electromagnetic systems, analysis and measurements.

Topics of Interest:

Based on the above-mentioned theme, including following topics (**but not limited to these**), original (un-published) research contributions are invited.

- Advancements and Challenges on Measurement Techniques for 5G and Beyond
- Advanced RFID Systems and Methods for IoT and Smart Industry
- Antenna Systems for Wireless Power Transmission and RF Energy Harvesting
- Antennas and Propagation for Wireless Power Transfer & Harvesting in Space
- Artificial Intelligence for Current Trends and Emerging Applications in Electromagnetism
- MIMO Antennas for 5G applications
- Modeling, analysis and design methods for antennas in IoT applications
- New Antenna Systems involving Application of Metamaterials and Metasurfaces
- New trends in small antennas
- Novel Antenna Measurement Techniques and Data Analysis
- Passive beamforming networks for multi-beam antennas
- Microwave/millimeter-wave imaging towards real-time medical applications

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(Approval Awaited)

Technical Committee:

Dr Dileep Bapatla Senior Research Engineer, CEWITT, IIT Chennai Research Park.

Dr M Murali, Professor, Centurion University of Technology & Management, Andhra Pradesh.

Dr Ganala Santoshi, Associate Professor, VIT Chennai.

Dr M V D Prasad, Associate Professor, KL University.

Dr M Vinod Kumar, Associate Professor, BEC.

Mr Surjya Barik, Lead SoC PDV & Convergence Engineer, Google Inc.

Dr Chandra Sekhar Dash, Assistant Professor, Centurion University of Technology & Management, Odisha.

Paper Submission Process: Please submit your paper (in word/pdf format) at Email: profvamshi@gmail.com with “**Special Session-ITES-22**” mentioned in the subject line.