

**Special Session on**  
**Emerging Topics In 5G/6G Communication Systems**  
**in conjunction with**  
**13th World Congress on Information and Communication Technologies (WICT 2023)**  
**December 14-15, 2023**  
**Website:** <http://www.mirlabs.org/wict23>  
**Hybrid Mode – Online & Offline**  
**Onsite Venues:** <http://mirlabs.org/wict23/venue2.php>

### **Objectives and Scope**

The objective of this special session is to discuss problems associated with the development, difficulties and uses of 5G/6G communication networks in numerous fields. As the world enters the era of 5G and anticipates the advent of 6G, it is essential to explore the latest trends, breakthroughs, and challenges in communication systems. This special session aims to bring together researchers, engineers, and industry experts to discuss and share their insights on the emerging topics shaping the landscape of 5G and 6G communication systems. Participants will have the opportunity to present their cutting-edge research, innovative ideas, and practical applications in this rapidly evolving field. We cordially invite researchers and scientists worldwide working on applications based on 5G/6G networks, Internet of Everything (IoE), Artificial Intelligence (AI) in 6G network, smart cities, etc. to participate and submit their research work to our special session. This special session focuses on the state-of-the-art developments, new architecture and novel algorithms of the communication technologies. Potential topics include but not limited to high- performance algorithms/models for latest technologies of 5G/6G networks.

### **Subtopics**

The topics include, but are not limited to:

- Terahertz (THz) Communication
- AI enabled B5G/6G network management
- Nature inspired optimization algorithms and their applications in 5G/6G networks
- Mobility management algorithms for 5G/6G network
- Optimization techniques for different network
- Mobile backhaul for small cells
- Communication protocols for 5G/6G network
- AI for low complexity in B5G/6G
- Multiple Access schemes suitable to 6G
- Vehicular Communication and Autonomous Vehicles
- Integration of Satellite Communication in 5G/6G

## Paper publications

- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (<https://www.springer.com/series/15179>)
- Indexed by SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago
- Paper maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at: <https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324>
- Submission Link: <https://cmt3.research.microsoft.com/WICT2023>

## Important Dates

Paper submission due: **September 30, 2023**

Notification of paper acceptance: **October 31, 2023**

Registration and Final manuscript due: **November 10, 2023**

Conference Date: **December 13-15, 2023**

## Special Session Chair(s)

- **Dr. Meenakshi**, University Institute of Engineering, Chandigarh University, Mohali, India
- **Dr. Deepti Chaudhary**, University Institute of Engineering and Technology, Kurukshetra University, India
- **Dr. Ajith Abraham**, Machine Intelligence Research Labs, USA

**Information Contact:** Dr. Meenakshi <[meenakshi.e10466@cumail.in](mailto:meenakshi.e10466@cumail.in)>