

## **5G and Beyond Communication Technologies and Applications**

Organizer:

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### **Call for Papers**

The 5G and Beyond Communication Technologies and Applications Oral Special Session will focus on wired and wireless communication technologies, electromagnetics, systems, circuit components, and project design aspects.

Wired and wireless communication technologies are increasingly being utilized in terrestrial, maritime, and aviation sectors. Integrated structures also benefit from communication technologies operating at different frequencies. These technologies, which play a crucial role in data transmission, are analyzed in terms of both electromagnetics and system characteristics.

The key topics to be covered in the 5G and Beyond Communication Technologies and Applications Oral Special Session include:

- 5G and Beyond Communication Technologies
- Wired Communication
- Wireless Communication
- Wired Networks
- Wireless Networks
- WAN Technologies
- Ground-Satellite Communication
- Digital Twin
- Internet of Things (IoT)
- Smart Cities
- Artificial Intelligence (AI)
- Machine Learning
- Project Design for 5G and Beyond Communication Technologies
- Electromagnetic Wave Propagation in 5G and Beyond Communication Technologies

As part of the 33rd IEEE Signal Processing and Communications Applications Symposium (SIU 2025), to be held on June 25-28, 2025, in Şile, Istanbul, this session will provide a platform for presenting research on current and future wired and wireless communication technologies. The session is expected to offer valuable insights not only to academics but also to industry professionals. I invite experts and researchers working in academia and industry on 5G and beyond communication technologies to submit their papers and contribute to this session.