

# Call for Papers

## Track 3 – Testbeds, Experimentation and Datasets for Communications and Networking

### Track Chairs:

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### Scope and Motivation:

The growing complexity of the networking ecosystem underscores the importance of data collection and experimentation at scale. This ensures that networking solutions can effectively influence the network behavior under conditions that closely mimic real-world deployments. Consequently, research testbeds that allow for the testing and validation of communication and networking solutions, as well as the automation of data collection in realistic environments, are becoming increasingly critical.

### Main Topics of Interest:

The testbeds, experimentation and datasets for communications and networking track seeks original contributions in the following areas, as well as others that are not explicitly listed but are closely related:

- Design and evaluation of testbeds and prototyping platforms for communications and networking
- Experimentation and data-collection at scale on real-world testbeds
- Experiences/lessons from recent testbed deployments
- Techniques for improving reproducibility of real-world measurement studies
- Testbed control and management issues
- Evaluation of large-scale and heterogeneous networks
- Experimental evaluation of wireless communication technologies, including
  - Cellular networks (5G-and-beyond)
  - Open RAN
  - Wi-Fi
  - mmWave and Terahertz communications
  - Massive MIMO
- Design and evaluation of open-source softwares for wireless networking
- Creation of open-source datasets for wireless communications
- Experimental evaluation of security schemes and threats for communications