4th International Conference on 6G Communications Networking and Signal Processing (SGCNSP)

27-28 June 2025

Sri Krishna Institute of Technology

57, Chimney Hills, Hesaraghatta Main Road, Post, Chikkabanavara, Bengaluru, Karnataka 560090 India

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IMPORTANT DATES

Paper Submission Deadline:
30th April, 2025

Notification of Acceptance:
15th May, 2025

Registration Deadline:
5th June, 2025

Submission Link:
https://cmt3.research.microsoft.com/4thSGCNSP2025

Conference Website: www.sgcnsp.com

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International Conference on 6G Communications Networking and Signal Processing (SGCNSP) is a premier conference in Signal processing for Wireless communication and networking. SGCNSP 2025 is a hybrid mode and to be held at Sri Krishna Institute of Technology, Bangalore, India during 27-28 June 2025. The conference aims of bringing together researchers and practitioners working on computing, communications and security aspects and providing a forum to present and discuss emerging ideas and trends in this highly challenging research field. The several pioneer researchers including IEEE Fellow and industrialist persons will be present for delivering the future trend of research directions. The selected accepted papers will be appeared for possible publication in Springer Nature "Lecture Notes in Electrical Engineering".

CALL FOR PAPERS

Track 1: Signal processing
- Sparse Signal Processing Theory for Communications
- Signal processing for emerging technologies in 5G/6G
- Graph signal processing
- Biomedical signal processing
- Detection and estimation
- Distributed signal processing for edge learning and computing
- Signal processing for sensor networks, smart cities, and IoT applications
- Signal processing for single-carrier, OFDM / OFDMA, multicarrier systems including new waveforms
- Smart grid and power line communications
- Signal processing for software defined and cognitive radio
- Quantum signal processing
- Speech, audio and language processing
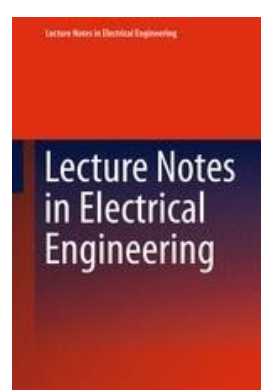
Track 2: Mobile and Wireless Networks
- 6G Vehicular networks
- Centralized-RAN, Could-RAN, and Fog-RAN architectures, OpenRAN
- Vehicular wireless networks
- Underwater wireless networks
- Delay-tolerant wireless networks
- Reconfigurable wireless networks
- Quality of Service (QoS) and Quality of Experience (QoE) in next-generation net
- Wireless edge computing, fog computing, and cloud computing
- Device-to-device communications
- Machine-to-machine communications
- AI for wireless networking
- Testbeds and deployment of wireless networks
- Standardization activities of emerging wireless technologies
- Communication paradigms based on emerging wireless technologies
- Integration of satellite and terrestrial networks
- Antennas and Microwave Components
- Radars, Remote sensing and Wireless Power Transfer

Track 3: Communication Systems and Networks
- 6G/next-generation networks
- Hybrid technology (Wi-Fi 8 and 6G)
- Information and coding theory
- Emerging broadband wireless networks
- Semantic networks/communications
- Satellite and space communications
- Quantum communications and computing
- Security and privacy issues in communications for 5G/6G
- Machine learning/AI- based solutions for wireless communications in 5G/6G
- Wireless communications powered by Energy harvesting and green communications
- Adaptive antennas, metamaterials, and beamforming
- Multi-antenna, MIMO and Massive MIMO, holographic MIMO and/or multi-user systems
- Heterogeneous and Small-Cell Networks
- Millimeter Wave, Terahertz, and Ultra-Wideband Communication Theory
- Network Coding
- Full-duplex communications/ Physical Layer Security
- Unmanned aerial vehicles (UAV) communications
- Spectrum sensing, shaping, and management techniques
- Detection and estimation theory
- Cognitive radio and AI techniques for 6G and Beyond 5G systems
- Security and privacy for 6G
- 6G networks and IoT
- Intelligent Transportation Systems
- Quality and performance of Multi-access Edge Computing (MEC) and fog computing solutions
- Protocol design and performance evaluation of new RAN architectures
- Software Defined Networking (SDN)
- Quality and performance in beyond 5G/6G wireless and mobile networks

Track 4: RF & optical communication
- Optical wireless and fiber systems & networks for 6G
- Optical communication
- Free Space Optical (FSO) networks and Visible Light Communication (VLC)
- Ultraviolet communications and networks
- Underwater optical communications
- Optical wireless vehicular networks
- Radars, Remote sensing

Lecture Notes in Electrical Engineering