The 5th International Conference on Advanced Communication Technologies and Networking

IEEE ComSoc
IEEE Communications Society

12-14 December, 2022
Hybrid In-Person/Virtual Conference

CommNet '22

The fifth International Conference on Advanced Communication technologies and Networking (CommNet 2022) aims to bring together leading academic scientists, scholars, engineers, and industrial researchers interested in advanced communication technologies and networking. Authors are invited to submit papers that contain original material which is not currently under review in any other conference or journal and has not been previously published. Accepted papers will be submitted for inclusion into IEEE Xplore. Distinguished papers, after further revision and extension, might be published in special issues in international journals. The conference will be held **in a hybrid In-Person/Virtual mode**. Potential research topics include, but are not limited to:

CALL FOR PAPERS

Track 1: Communication systems
- Signal processing for communications
- Compressive sensing
- Space-time coding, Beamforming, Massive MIMO
- Diversity techniques, equalization
- Source Coding
- Channel modeling and estimation
- Coding, and decoding algorithms
- Modulation, OFDM
- Interference management
- Multihop & Cooperative communications: Ad hoc, WSN, VANET
- M2M and MTC communications
- RF circuits for wireless communications
- Energy harvesting for communications
- Non-orthogonal multiple access (NOMA)
- PHY layer security for wireless systems
- mmWave communications
- Optical Communications
- Power Line Communications
- Wireless Power Transfer
- Green communications
- RFID networks and protocols
- Cognitive Radio Communications.

Track 2: Security
- Cryptographic protocols
- Network security
- Security in embedded system
- Security in cloud computing
- Cyber security
- Security, privacy, and trust in wireless communications
- Security, privacy, and trust in social networks

Track 3: Networking and Cloud Infrastructure
- Software Defined Networks (SDN)
- Network Function Virtualization (NFV)
- Softwarization of networks
- PHY layer security
- Cloud architectures: Fog vs. Cloud vs. Mobile Cloud
- Intelligent and application specific routing protocols
- Intelligent and application medium access protocols
- Network and cloud management

Track 4: Smart Applications and Services:
- Smart Cities
- Intelligent Transportation Systems
- Smart Buildings
- Smart Environment
- Smart Healthcare
- Smart Agriculture
- Smart Utilities: Smart Grid, Smart Water, Smart Recycling Services
- Smart spaces: Smart Home, Smart Building, Smart Campus
- Crowdsensing and Crowdsourcing Applications
- Energy harvesting
- Social networks
- Peer-to-peer applications
- Intelligent mobile services
- Intelligent services for embedded and wearable electronics

Important Dates

PAPER SUBMISSION [FIRM]: October 20th, 2022
CAMERA-READY PAPER: November 20th, 2022
PAPER ACCEPTANCE NOTIFICATION: November 13th, 2022
EARLY BIRD REGISTRATION: November 20th, 2022

CONFERENCE DAYS: December 12-14, 2022

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