



# The 4<sup>th</sup> International Conference on Advanced Communication Technologies and Networking

**IEEE  
ComSoc**  
IEEE Communications Society

3-5 December, 2021

Virtual  
Conference

*CommNet'21*

Technically Co-Sponsored by IEEE ComSoc. IEEE Conference Record Number: #52204, ISBN: 978--1-6654-0306-1

The fourth International Conference on Advanced Communication technologies and Networking (CommNet 2021) 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 Virtual mode**. Potential research topics include, but are not limited to:

### 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

CALL FOR PAPERS

## Important Dates

PAPER SUBMISSION: **October 7th, 2021**

CAMERA-READY PAPER: **October 31st, 2021**

PAPER ACCEPTANCE NOTIFICATION: **October 25th, 2021**

EARLY BIRD REGISTRATION: **October 31st, 2021**

CONFERENCE DAYS: **December 3-5, 2021**

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[www.commnet-conf.org](http://www.commnet-conf.org)