

## CALL FOR PAPERS

The International Conference on Advanced Technologies for Communications is an annual conference series, since 2008, co-organized by the Radio & Electronics Association of Vietnam (REV) and the IEEE Communications Society (IEEE ComSoc). The goal of the series is twofold: to foster an international forum for scientific and technological exchange among Vietnamese and worldwide scientists and engineers in the fields of electronics, communications and related areas, and to gather their high-quality research contributions.

In 2024, the ATC conference will be held in Ho Chi Minh city, Vietnam during October 17-19 and hosted by Posts and Telecommunications Institute of Technology. The conference will feature prominent invited speakers as well as papers by top researchers from all over the world.

### SUBMISSION AND POLICIES

Submitted papers (for both regular and special sessions) are subject to a blind review process handled by an international technical program committee. An author of an accepted paper must register at full rate (member or non-member of the IEEE or REV) prior to uploading the camera-ready version. The maximum length of the camera-ready version is 6 pages. Conference proceedings that meet IEEE quality reviews standards may be eligible for inclusion in the IEEE Xplore Digital Library. The IEEE reserves the right to exclude a paper from distribution after the conference (e.g. removal from IEEE Xplore) if the paper is not presented at the conference.

### IMPORTANT DATES

Regular/special paper submission:

- Manuscript submission: **July 15, 2024 (Hard deadline)**
- Notification of acceptance: **July 30, 2024**
- Camera-ready submission: **August 30, 2024**

### COMMITTEES

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### COMMUNICATIONS TRACK

- Communication Theory
- Information & Coding Theory
- Communication Quality, Reliability & Modelling
- Wireless Communications
- Machine Learning for Digital Communications
- Deep Learning and Applications in Communications System

### NETWORKS TRACK

- Ad Hoc & Sensor Networks
- Computer Communications
- Optical Networking
- Satellite Communications
- High-Speed Networking
- Network Operations & Management

### SIGNAL PROCESSING TRACK

- Signal, Image and Video Processing
- Signal Processing for Communications
- Signal Processing for Big Data
- Signal Processing for the IoTs
- Bio-Imaging and Biomedical Signal Processing
- Telemedicine and E-hospital
- Biomechanics

### INTEGRATED CIRCUITS TRACK

- Emerging IC Technologies
- VLSI Design Automation
- Digital, Analog and Mixed-Signal ICs and Systems
- RF IC Front-end and Transceivers
- Low Power Design

### ELECTRONICS TRACK

- Internet of Things and Sensors
- Embedded Systems
- Automation, Robotics and Control
- Consumer and Automotive Electronics
- Smart Electronic Systems

### MICROWAVE ENGINEERING TRACK

- Microwave Theory & Techniques
- RF, Microwave Circuits, Systems & Applications
- Millimeter Wave, THz Technologies and Systems
- Power Amplifier Devices and Circuits

### ANTENNAS AND PROPAGATION TRACK

- Antenna Systems
- Integrated Antennas, Active Adaptive and Smart Antennas
- Electromagnetic Scattering, Channel Measurement and Propagation
- Computational Methods for Wave Propagation

## CALL FOR SPECIAL SESSION PAPERS

REVOLUTIONIZING CONNECTIVITY OF 6G WIRELESS COMMUNICATIONS FROM  
CONNECTED THINGS TO CONNECTED INTELLIGENT.

### SESSION CHAIRS

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**DEADLINE FOR SUBMISSION:  
15/07/2024**

**PAPER SUBMISSION ON  
EDAS: [COMMITTEES](#)**



### MESSAGE FROM THE SESSION CHAIRS

During the initial phase of transitioning from connected devices to connected intelligence, 6G communication technologies were still conceptualizing their capabilities and prospective requirements. 6G would necessitate significantly higher data speeds than 5G. This may entail attaining data speeds of terabit-per-second to facilitate applications like holographic communication, high-definition virtual reality (VR), and high-fidelity telepresence. With the growing interconnectedness and increasing dependence of vital services on 6G networks, it is crucial to prioritize strong security and privacy safeguards. For the purpose of protecting users' data and communications, 6G systems should integrate sophisticated encryption algorithms, authentication procedures, and privacy-preserving technologies. Additionally, in light of growing apprehensions over the environmental ramifications of technology, it is imperative for 6G to prioritize the reduction of its carbon emissions and ecological imprint. This may entail enhancing network infrastructure, advocating for energy-efficient products, and investigating renewable energy sources to power communication networks. Besides, there are various objectives that must be met, including achieving extremely low latency, establishing extensive connectivity, maximizing energy efficiency, optimizing spectral efficiency, using new antenna technologies, adhering to global standards, and ensuring interoperability. We are inviting submissions of original, high-quality research papers to this Special Session. Topics of interest include, but are not limited to:

- Next Generation Antenna Technologies for Future Wireless Networks: Extra Large-MIMO, Reconfigurable Intelligent Surfaces, and Cell-Free Massive MIMO
- Integrated Sensing and Communications
- Holographic MIMO Communications
- Network Softwarization Techniques for IoT Application (NetSoftIoT)
- Emerging Technologies in Aerial and Space Networks
- Green Communications and Networking
- Optical Wireless Communications and Networking
- TeraHezt Communications and Networking
- AI/ML-Powered Autonomous Telecommunication Networks
- Security and Privacy in 6G
- Quantum Communications and Networking