

IEEE GLOBAL COMMUNICATIONS CONFERENCE

8–12 December 2024
Cape Town, South Africa

Call For Papers

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COMMUNICATION THEORY SYMPOSIUM

SYMPOSIUM CHAIRS AND CO-CHAIRS

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SCOPE AND MOTIVATION

The Communication Theory Symposium will focus on the fundamentals and theoretical aspects of communication systems. The symposium welcomes original and innovative research work in these general areas, focusing on the physical layer and its interactions with higher layers. High quality papers reporting on applications and validation of communication theory from both industry and academia are encouraged.

TOPICS OF INTEREST

The Communication Theory Symposium seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Age of Information and Fundamentals of Low-Latency Communications
- Channel Estimation and Synchronization
- Coding Theory and Techniques, Adaptive Modulation and Coding
- Communication Theory Aspects of Ad Hoc and Sensor Networks
- Communication Theory Aspects of MIMO and Massive MIMO
- Communication Theory for Cross-Layer Design
- Detection and Estimation Theory
- Distributed Coding and Computing, Distributed Processing, Estimation and Learning
- Diversity and Fading Countermeasures
- Feedback in Communication Systems
- Fundamentals of Cache-Aided Communication
- Fundamentals of Heterogeneous and Small-Cell Networks

- Fundamentals of Random Access and Grant-Free Massive Multiple Access
- Interference Management, Cancellation, Alignment, and Avoidance
- Information Theory, Finite-Blocklength Information Theory, and Network Information Theory
- Iterative Techniques for Detection and Decoding
- Joint Sensing and Communications
- Millimeter Wave, Terahertz, and Ultra-Wideband Communication Theory
- Network Coding
- Orthogonal and Non-Orthogonal Multiple Access Techniques
- Orthogonal Frequency Division Multiplexing (OFDM) and Multi-Carrier Systems
- Physical Layer Security
- Quantum Communications and Networks
- Radio Resource Management and Scheduling
- Source Coding and Joint Source/Channel Coding
- Space-time Coding and Processing
- Sparse Signal Processing Theory for Communications
- Stochastic Geometry and its Application to System Analysis and Design
- Theoretical Aspects of Blockchain Networks
- Theoretical Aspects of Cognitive Radio
- Theoretical Aspects of Cooperative Communications
- Theoretical Aspects of Device-to-Device and Machine-to-Machine communications
- Theoretical Aspects of Fiber Optical and Free-Space Optical Communications
- Theoretical Aspects of Machine Learning in Communications
- Theoretical Aspects of Powerline, Underwater, and Visible Light Communications of Wireless
- Theoretical Aspects of Wireless Communications Powered by Energy Harvesting
- Theoretical Aspects of Reconfigurable Intelligent Surface Assisted Communications
- Semantic Communication Theory

IMPORTANT DATES

Deadline for paper submission: 1 April 2024

Date for notification: 1 August 2024

Deadline for final paper submission: 1 September 2024

SUBMISSION INSTRUCTIONS

All papers for technical symposia should be submitted via EDAS through the following link:

<https://edas.info/N31420>