



Call for Papers

Communication Theory Symposium

Symposium chairs

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Scope and Topics of Interest

The Communication Theory Symposium will focus on the fundamentals of communication systems, with an emphasis on wireless and wireline communications. The symposium welcomes original and innovative research in these general areas, focusing on the physical layer and its interactions with higher layers. High quality papers reporting on applications of communications theory from both industry and academia are encouraged. To ensure complete coverage of the advances in this field, the Communication Theory Symposium cordially invites original contributions in, but not limited to, the following topical areas:

- Adaptive Modulation and Coding
- Channel Estimation and Synchronization
- Coding Theory
- Communication Theory Aspects of Distributed and Edge Computing
- Communication Theory Aspects of Networks and Cross-Layer Design
- Detection and Estimation Theory
- Diversity and Fading Countermeasures
- Feedback in Communication Systems
- Fundamentals of Cache-Aided Communication
- Fundamentals of Heterogeneous and Small-Cell Networks
- Interference Management, Cancellation, Alignment, and Avoidance
- Information Theory
- Iterative Techniques, Detection, and Decoding
- Source Coding and Data Compression
- MIMO and Massive MIMO
- Multiple Access, Radio Resource Management, and Scheduling

- Network and Multiuser Information Theory
- Orthogonal Frequency Division Multiplexing (OFDM) and Multi-Carrier Systems
- Physical Layer Security
- Privacy in Communication Networks
- Stochastic Geometry and its Application to System Analysis and Design
- Theoretical Aspects of Cognitive Radio
- Theoretical Aspects of Cooperative Communications
- Theoretical Aspects of Device-to-Device and Machine-to-Machine Communications
- Theoretical Aspects of Machine Learning in Communications
- Theoretical Aspects of Simultaneous Wireless Information and Power Transfer
- Ultra-Wideband, Millimeter Wave, Sub-Terahertz, and Fiber/Free-space Optical Communication Theory
- Unmanned Aerial Vehicle (UAV) Communications
- Wireless Communications Powered by Energy Harvesting

Submission Guidelines

The IEEE ICC 2020 website (icc2020.ieee-icc.org) provides full instructions on manuscript format and how to submit a manuscript. You will select the desired symposium/track when submitting your manuscript.