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2024 IEEE Wireless Communications and Networking Conference

Wireless Communications for Growing Opportunities

14–17 April 2024 // Dubai, United Arab

Call for Papers

The IEEE Wireless Communications and Networking Conference (WCNC) is one of the premier annual events of IEEE in the wireless research arena bringing together researchers, academics, industry, and government. WCNC 2024 will be held in the vibrant city of Dubai, United Arab Emirates (UAE), the capital of the Emirate of Dubai.

WCNC 2024 will include technical sessions, tutorials, workshops, and technology and business panels. You are invited to submit papers, and proposals for panels, tutorials, and workshops, in all areas of wireless communications, networks, services, and applications. The proposals for panels, tutorials, and workshops should be sent to the appropriate Chairs listed.

The submissions of technical papers should be made on EDAS in the following four tracks. Submissions should be in PDF and are limited to 6 pages, double column, 10-point font.

The technical program is organized in four technical tracks.

Visit Our Website

To learn more about WCNC 2024 in Dubai, and how to submit your paper, please visit:

<https://wcnc2024.ieee-wcnc.org/>

Important Dates:

Paper Submissions Deadline: ~~11 September~~ **Extended to 11 October 2023**

Notification of Acceptance: 4 December 2023

Camera-Ready Papers: 12 January 2024



CALL FOR PAPERS

TRACK 1: PHYSICAL LAYER AND COMMUNICATION THEORY

Mark Flanagan, Univ. College Dublin, IRL
Daniel B. da Costa, Technology Innovation Institute, Abu Dhabi, UAE
Domenico Ciuonzo, Univ. of Naples "Federico II", IT
Miaowen Wen, South China Univ. of Technology, CN

Antennas and RF
Channel Modeling and Estimation
Coding Theory
Energy Harvesting and Low Energy Communication
Feedback and Two-Way Communication
Free Space Optical Communication
Fundamentals of Age of Information
Holographic Surfaces and MIMO
Information Theory and Channel Capacity
Integrated Sensing and Communications
Iterative Techniques, Detection, and Decoding
Low Resolution Communication
Millimeter-Wave and Terahertz
Next Generation MIMO and Massive MIMO
Physical Layer Security
Propagation and Interference Modeling
Relaying and Self-Backhauling
Short Packet and Finite Block Length Communications
Stochastic Geometry
Waveforms and Modulation
Wireless Power and Information Transfer

TRACK 2: MEDIUM ACCESS CONTROL AND NETWORKING

Yansha Deng, King's College London, UK
Sinem Coleri, Koc University, TR
Maurice Khabbaz, American University of Beirut, LEBN
Valeria Loscri, INRIA, FR

Age and Value of Information for Networks
Backscatter Communications
Cognitive Radio and Networking
Cooperative Communications and Networking
Edge Computing, Edge Intelligence and Fog Networks
Energy-Efficient and Green Networking
Multihop Networks
Multiple Access and Contention
Network Economics
Network Slicing
RAN Data Collection and Storage Enhancement
Resource Management
Routing and Congestion Control
Scheduling and Opportunistic Communications
SDN/NFV
Semantics of Information
Spectrum Sensing, Access, and Sharing
Unlicensed Spectrum and Licensed/Unlicensed Inter-Networking
URLLC, Time Sensitive, and Deterministic Networking
Wireless Network Security and Privacy

TRACK 3: RESOURCE ALLOCATION AND MACHINE LEARNING

Rui Zhang, National University of Singapore, SG
Alessio Zappone, Univ. of Cassino, IT
Pierluigi Salvo Rossi, Norwegian Univ. of Science and Technology, NO
Xiangyun (Sean) Zhou, The Australian National University, AU

Bayesian Optimization for Wireless Communications
Communication-inspired Machine Learning
Convex and Non-Convex Optimization for Wireless Communications
Cross-Layer Optimization
Data-driven Network Modelling and Optimization
Datasets for Wireless Systems and Channels
Deep Learning for Wireless Communications
Deep Unfolding for Wireless Communications and Networks
Distributed Learning for Wireless Communications
Distributed Optimization & Resource Allocation for Wireless Communications
End-to-end Machine Learning over Wireless Channels
Game-Theoretic Approaches to Wireless Communications
Implementation of Machine Learning Algorithms for Wireless
Load Balancing and Cell/Band Association
Model-Aided Machine Learning for Wireless Communications
Networking Architectures for Artificial Intelligence
Performance Analysis of Machine Learning Techniques for Wireless Communications
Reinforcement Learning for Wireless Communications
Resource Allocation for Wireless Communications and Networks
Scalability of ML for Wireless Communications
Semantic and Goal-Oriented Communications
Transfer Learning for Wireless Communications and Networks
Unsupervised and Generative Models

TRACK 4: EMERGING TECHNOLOGIES, NETWORK ARCHITECTURES, AND APPLICATIONS

Vincenzo Sciancalepore, NEC Europe, DE
Yuen Chau, Singapore Univ. of Technology and Design, SG
Fan Liu, Southern Univ. of Science and Technology, CN
Giovanni Geraci, Pompeu Fabra University, ES

5G NR and 6G Standardization
802.11 and Next-Generation Wi-Fi
Blockchain and Cryptography
Connected Vehicles
E-health and Mobile Health
Experiments, Prototypes, and Testbeds
Fluid Antenna Communications
Full-Duplex Communication Networks
Innovative Implanted and Wearable Devices
Intelligent Beamforming Relays
IoT and Machine Type Communications
Joint Radar and Communications
Molecular and Nano Communications
Networking support for virtual and augmented reality
O-RAN
Quantum Communications
Reconfigurable Intelligent Surfaces
Satellite and Deep Space Communications
Sensing and Localization
Software Defined Radio and Networks
Surface Wave Communications
UAVs and Non-Terrestrial Networks
Visible Light and Optical Communication

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