



IEEE WCNC® 2025

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2025 IEEE Wireless Communications and Networking Conference

6G Horizons: Bridging Beyond Wireless

24-27 March 2025 // Milan, Italy

Call for Papers

The IEEE Wireless Communications and Networking Conference (WCNC) is a top-ranked, flagship conference of the IEEE Communications Society, bringing together researchers from academia, industry, and government. IEEE WCNC 2025 will be hosted in the vibrant city of Milan, Italy and will be conducted in person, allowing attendees to fully benefit from the conference atmosphere and experience.

Prospective authors are invited to submit their works in the form of research papers describing significant and innovative contributions to the field of wireless communications and networking, in accordance with the four technical tracks listed below. Accepted and presented papers will be published in the IEEE WCNC 2025 Conference Proceedings and submitted to IEEE Xplore.

Proposals for half- or full-day tutorials and workshops are also invited in all communication and networking topics.

Visit Our Website

To learn more about WCNC 2025 in Milan, and how to submit your paper, please visit:

<https://wcnc2025.ieee-wcnc.org/>

Important Dates:

Paper Submissions Deadline: 2 September 2024

Notification of Acceptance: 20 December 2024

Camera-Ready Papers: 24 January 2025



CALL FOR PAPERS

TRACK 1: PHYSICAL LAYER AND COMMUNICATION THEORY

Track Chairs: [Alexandre Graell i Amat, Chalmers University of Technology, Sweden](#); [Kaibin Huang, University of Hong Kong, China](#); [Erik Perrins, University of Kansas, USA](#)

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

Track Chairs: [Francesca Cuomo, University of Roma "La Sapienza", Italy](#); [Shiwen Mao, Auburn University, USA](#); [Pablo Serrano, Universidad Carlos III de Madrid, Spain](#)

Age and Value of Information for Networks
AI based support in network functions programmability
Backscatter Communications
Cognitive Radio and Networking
Cooperative Communications and Networking
Edge Computing, Edge Intelligence and Fog Networks
Energy-Efficient and Green Networking
IoT networks and protocols
Low Power Wireless Networks
Multihop Networks
Emerging Medium Access Schemes in the 5G and Beyond
Network Economics
Network Slicing
ORAN programmability of MAC and network functions
RAN Data Collection and Storage Enhancement
Resource Management
Routing and Congestion Control
Scheduling and Opportunistic Communications
SDN/NFV
Semantic Communications
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

Track Chairs: [Santiago Mazuelas, Basque Center for Applied Mathematics, Spain](#); [Linyang Song, Peking University, China](#); [Eirini Eleni Tsiropoulou, University of New Mexico, USA](#)

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
Machine Learning Methods for Wireless Localization
Model-Aided Machine Learning for Wireless Communications
Networking Architectures for Artificial Intelligence
Online Learning for Wireless Networks
Performance Analysis of Machine Learning Techniques for Wireless Communications
Reinforcement Learning for Wireless Communications
Resource Allocation for Wireless Communications and Networks
Resource Management in Public Safety Networks
Resource Orchestration for Positioning, Navigation, and Timing Systems
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

Track Chairs: [Chunxiao Jiang, Tsinghua University, China](#); [Hina Tabassum, York University, Canada](#); [Andreas Kasser, Karlstads Universitet, Karlstad, Sweden](#)

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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