IEEE International Conference on Machine Learning in Communications and Networking – IEEE ICMLCN

May 5-8 2024 // Stockholm, Sweden

CALL FOR PAPERS AND PROPOSALS

The first IEEE International Conference on Machine Learning (ML) in Communications and Networking will be held in Stockholm, Sweden. The conference brings together researchers from the disciplines of ML and Communication and Networking, and aims at promoting fundamental and applied research of ML for designing and analyzing communication systems and networks, for developing communication protocols to support ML services, as well as for advancing distributed ML over communication networks. The conference targets any communication and networking area, such as, but not limited to, wireless, optical, molecular, Internet, or WLAN.

Paper Submission 15 September 2023	Camera-Ready 15 January 2024
Acceptance Notification 15 December 2023	Tutorial Proposals 15 November 2023

TOPICS

- ML and Networking for Intelligent Transport Systems
- ML and Networking for Smart Grids
- ML for Signal Processing in Communication and Networking
- ML for the MAC layer
- ML for the Physical Layer
- ML for the Transport layer
- Communication Efficient Distributed ML
- Distributed ML over communication networks
- Federated Learning and communications
- Learn to Transmit and Receive
- Resource Management and Network Optimization
- Semantic Communications and ML
- Wireless Communication to Support ML Services
- Wireless Networking to Support ML Services

- ML and IoT
- ML and Molecular Networks
- ML and Optical Networks
- ML in Intelligent Reflecting Surfaces
- ML and Networking in Smart Cities
- Decentralized Transmission Optimization for Edge Learning
- Distributed Multi-Agent Reinforcement Learning
- Edge Learning in Wireless Networks
- Experiments and Testbeds
- Integrated Distributed Optimization with Edge Learning
- Integrated Sensing and Communication via ML
- Network Architectures and Protocols for Edge Learning
- Over-the-Air Computation for Edge Learning
- Privacy and Security Issues with ML over Networks

ORGANIZING COMMITTEE

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INDUSTRY FORUM AND EXHIBITION PROGRAM

Proposals are sought for forums, panels, presentations, and demos, specifically related to issues facing the broader communications and networking industries.

TUTORIALS

Proposals are invited to half- or full-day tutorials in all AI and Communication and networking topic.

https://icmlcn2024.ieee-icmlcn.org/

IEEE ComSoc — IEEE Communications Society

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