

Call for papers

AI-Enabled Communications and Networks (AICN) Symposium

FCN 2026

Bologna, Italy, on Oct. 28 – Nov. 1, 2026

<http://www.future-forum.org.cn/en/fcn2026/index.html>

Co-Chairs

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Scope

Artificial Intelligence and Machine learning have shown significant potential in facilitating human-centered cognitive systems. With AI and ML, communication and networking systems can become cognizant, implementing agile reconfiguration and optimization processes based on measured data. The AI and Machine Learning for Communications and Networking symposium focuses on topics related to all aspects of machine learning applied to communication and networking systems, and seeks original unpublished papers focusing on theoretical analysis, algorithm/protocol design, novel system architectures, experimental studies, emerging applications, standardizations, testbeds, etc. The goal is to bring together and disseminate the latest developments and technical solutions concerning all facets of the broad area of AI and ML for communication and networking systems, including emerging intelligent and/or self-aware communications and networking technologies to improve network resource utilization and optimization, and make future communication and networking systems intelligent, autonomous, efficient, and trustworthy. The symposium calls for original, previously unpublished papers on the topics including, but not limited to, the following:

- AI and ML for communication and network operation and control
- AI and ML for communication and network resource optimization
- AI and ML for cognitive communication and networks architecture
- AI and ML for communication and network security management
- AI and ML for self-aware network management
- AI and ML for the Internet of Things
- AI and ML for cyber-physical systems
- Machine intelligence-enabled communication and network big data analytics
- Machine intelligence-enabled cloud/edge/fog computing for communication and networking systems
- Machine intelligence-driven communication network theory and algorithms
- AI and ML for RF signal processing
- AI and ML for collaborative spectrum sharing
- AI and ML for distributed communications and sensing
- AI and ML for next-generation cognitive networks
- AI and ML for next-generation wireless networks such as 5G networks
- AI and ML for new network architectures such as software-defined networking and network function virtualization
- AI and ML for constrained networks such as sensor networks, tactical networks

Submission Guidelines

Perspective authors should follow the instructions at <http://www.future-forum.org.cn/en/fcn2026/Kit.html> to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at <http://www.future-forum.org.cn/en/fcn2026/Submission.html>.