



The 35th Wireless and Optical
Communications Conference
(WOCC 2026)
May 8th - May 9th, 2026
Newark, New Jersey, USA

Call For Paper

The 35th Annual Wireless and Optical Communications Conference (WOCC 2026) will serve as an international forum for experts from academia, industry, and government to exchange their novel ideas and latest results on cutting-edge researches and developments in the areas of wireless networks and communications, optical communications and networks, as well as machine learning, big data and AI for communications. The conference will feature several awards, including the famous Charles Kao Best Paper Award, named after the Nobel laureate who advanced fiber optics in telecommunications.

❖ **Wireless Networks and Communications Symposium**

- Radio access technologies for 5G, 6G, and beyond
- New multiple access schemes (NOMA, grant-free, random access)
- Near-field, holographic MIMO, large intelligent surfaces
- Channel modeling, measurement, and estimation
- Multi-antenna, massive MIMO, multi-user, distributed / cell-free systems
- Reconfigurable Intelligent Surfaces (RIS) / metasurfaces / intelligent reflecting surfaces
- Cross-layer resource allocation (PHY / MAC / network layers)
- Edge computing, mobile edge, in-network processing
- Green / energy-efficient communications, low-power networking
- Unmanned Aerial Vehicles (UAVs), aerial networks, vehicle networks, telematics
- Non-terrestrial / hybrid networks (satellite, aerial, high-altitude platforms)
- Disaggregated RAN, Open RAN, Cloud RAN, virtualized RAN
- Machine learning / AI / data-driven methods for wireless systems
- Federated learning, distributed learning over wireless
- Wireless communications for ML (communication-aware ML)
- 6G standardization roadmap, regulatory regimes, spectrum policy

❖ **Optical Communications and Networks Symposium**

- Optical communications for long-haul and metro networks
- Optical access networks for fixed and mobile services
- Optical interconnections for data center applications
- Optical network for inter- and intra-datacenter connectivity

- Optical network testbeds and experiments
 - Optical networking for IoT and industry 4.0 applications
 - Optical wireless communication for space-air-ground integrated network in 6G
 - Fixed 5G, Fiber to the Room (FTTR), WiFi and optical access integration, and Fixed 6G
 - Software defined networking (SDN) for optical networks
 - Fibers and fiber devices
 - Optoelectronic devices, amplifiers, and lasers
 - Quantum and nonlinear optics as well as nano-photonics
 - Radio-over-fiber and radio over FSO systems
 - Free space and visible light communications
 - Microwave photonics
 - Optical sensors and networks
 - Optical wireless vehicular networks
 - Underwater optical communications
- ❖ **Artificial Intelligence and Big Data Analytics Symposium**
- AI/Machine learning and intelligent communications
 - AI/Machine learning for automation
 - AI/Machine learning-based information and signal processing
 - AI/Machine learning in wireless, mobile and satellite communications
 - Big data and deep learning applications
 - Intelligent resource (e.g., spectrum, power) allocation
 - Intelligent antennas design and dynamic configuration
 - Intelligent massive MIMO communication systems
 - Intelligent positioning and navigation systems
 - Intelligent cooperative/distributed coding
 - Intelligent wireless sensor networks and industrial Internet of Things
 - Cloud and edge computing for big data, IoT, and automation

Important Dates:

Full Paper Submission Deadline: **February 21st, 2026 (final and firm deadline)**
 Notification of Acceptance: March 14th, 2026
 Camera Ready: April 4th, 2026