Call for Papers

IEEE Photonics Technology Letters

Special issue on Intelligent Computing and Wireless Optical Communications

Guest Editors
Dr. Xiping Wu, Southeast University, China
Dr. Chen Chen, Chongqing University, China
Dr. Xiong Deng, Southwest Jiaotong University, China
Dr. Chao Li, Peng Cheng Laboratory, China

Scope and Topics

IEEE Photonics Technology Letters (PTL) will publish a Special Issue dedicated to report expanded versions of high-quality contributed and invited talks presented at the International Conference on ***Intelligent Computing and Wireless Optical Communications (ICWOC)***, which is co-located with the ISA Global LiFi Summit during May 15-17, 2026, in Nanjing, China. The core theme of ICWOC 2026 focuses on Optical Wireless Communication (OWC), a promising technology that employs optical waves as transmission medium for data communication, target sensing, power transfer, and many other applications. Despite the advantages of OWC including rich and license-free optical spectrum, high data rate, immunity to electromagnetic interference and inherent security, OWC still faces critical challenges such as bandwidth limitation, link blockage and instability, channel impairments, and integration with traditional wireless and optical fiber networks. This Special Issue aims to present cutting-edge advances in OWC technologies, fostering transformative innovations that will shape the next generation of intelligent, resilient, and green communication infrastructures.

The topics of this Special Issue include but not limited to the following:
Wireless Communication and Networks, Optical Fiber Communication and Networks, LiFi and Free Space Communications, Satellite and Space Communications, Integrated Sensing and Communication, AI-Empowered Wireless Communications, Fiber and Sensor Technologies, Intelligent Photonics and Optical Computing.

Submission Guidelines
Submissions will be reviewed in accordance with the normal procedures of the Journal and papers must be formatted according to the Information for Authors found at:
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- Manuscript submissions should be made online at https://ieee.atyponrex.com/journal/ptl-ieee
- Select the paper type "**Special Issue on Intelligent Computing and Wireless Optical Communications (ICWOC2026).**"

Important Dates
Open for Submissions: 1 July 2026
Submission Deadline EXTENSION: 1 December 2026
Tentative Publication: April 2027
EARLY ACCESS: *DOI-citable articles will be published online after acceptance upon submission of final files and rights selection – sometimes well in advance of issue publication*.

For further information, contact the PTL Editorial Office:
Sylvia Hinkson, Publications Coordinator
Email: s.hinkson@ieee.org