

Special Issue

Announcing a Feature Section of *IEEE Photonics Technology Letters* dedicated to:

Intelligent Computing and Wireless Optical Communications

Submission Deadline: Jan. 1, 2025

IEEE Photonics Technology Letters (PTL) will publish a Feature Section 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), held during June 21-23, 2024, in Chongqing, China. The main topic of ICWOC 2024 is *Optical Wireless Communication (OWC)*, which is a technology that utilizes optical waves as carriers to transmit data for communication and other purposes. Owing to its advantages such as abundant and license-free optical spectrum, high transmission capacity, robustness to electromagnetic interference and inherent physical-layer security, OWC has been widely viewed as a key enabling technology for 6G. OWC reveals its great potential for many exciting applications in free-space, indoor, underwater, vehicular and satellite scenarios. Nevertheless, the practical deployment of OWC systems still faces many challenges such as bandwidth limitation, link blockage, adverse channel conditions, etc. The topics of this Special Issue include but not limited to the following:

Free-Space Optical Communication, Visible Light Communication, Underwater OWC, Vehicular OWC, Satellite OWC, Visible Light Positioning, Optical Integrated Communication and Sensing, Digital Signal Processing for OWC, Machine Learning for OWC, OWC for Simultaneous Data Transmission and Energy Harvesting.

Both fundamental research and application-related contributions are encouraged.

The submission starts on **September 1, 2024** and the deadline for submission of manuscripts is **January 1, 2025**. Publication is scheduled for the April 2025 issue. Submissions should be made online at the IEEE Author Portal: <https://iee.atyponrex.com/journal/ptl-ieee> with papers formatted compliant with the 4-page IEEE PTL standards. All submissions will be reviewed in accordance with the normal procedures of the Journal.

Authors may contact anyone below for more information or at the website at <https://ieeephotonics.org/publications/publication-calls-for-papers>.

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