



New Advances in Optical Wireless Communication

Guest Editor:

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Deadline for manuscript
submissions:

closed (10 August 2025)

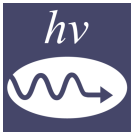
Message from the Guest Editor

Optical wireless communication (OWC) is a crucial research emphasis in the development of next-generation data acquisition and transmission, offering significant applications in either free space or underwater scenarios. However, current OWC systems encounter many challenges from both technical and engineering perspectives.

This Special Issue invites authors working in relevant fields to submit manuscripts that introduce the recent advances in “optical wireless communication”. All types of paper are acceptable, whether theoretical, numerical, or experimental. Topics include, but are not limited to, the following:

- Designs of visible-light/infra-red/ultra-violet OWC systems;
- Estimations and modeling for free-space/indoor/underwater OWC channels;
- Optical wireless signal processing;
- Code and modulation schemes in OWC systems;
- Micro-LED array based optical transmitters;
- Photon-counting detection;
- Power control and resource allocation in OWC systems;
- High-rate and energy-efficient OWC techniques;
- Massive and random access OWC networks;
- Optical intelligent reflecting surface;
- Signal compensation under turbulence, beam misalignment, beam wander, etc.





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Message from the Editor-in-Chief

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