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Challenges and Opportunities in Optical Wireless Communications for beyond Fifth and Sixth Generations Networks

Guest Editor:

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submissions:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue seeks to bring together original research contributions from both academia and industry to present the latest developments, challenges and open issues in the utilization of OWC technology for next-generation networks. Contributions in the form of theoretical, numerical and experimental papers are welcomed. Submissions may encompass a broad range of topics, including (but not limited to):

- Channel modeling and analysis;
- OWC for IoT;
- Visible light communication (VLC);
- Optical Quantum communication;
- Quantum Key Distribution in FSO;
- Machine learning applications in OWC;
- Security and privacy in OWC;
- Aerial FSO communication using UAVs, HAPS, etc.;
- Underwater optical wireless communication;
- Integrated RF-FSO communication;
- Spectral efficiency and modulation in OWC;
- Antenna design for OWC, with indoor and outdoor applications;
- Deep learning and artificial intelligence-based OWC system optimization;
- System design optimization for air-borne, air–water interface systems using hybrid RF-FSO or FSO systems.



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Special Issue