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Next-Generation Optical Wireless Communication: Emerging Research and Opportunities

Guest Editor:

Prof. Dr. Ping Wang
School of Telecommunications Engineering, Xidian University, Xi'an 710071, China

Deadline for manuscript submissions:
15 January 2025

Message from the Guest Editor

Over the last few decades, research on optical wireless communication (OWC) has been ongoing due to its great potential in providing faster data rates, larger capacity, and higher reliability. However, there are still some existing problems that should be further addressed in next-generation OWC, such as providing high-quality service for multiple users, improving robustness, adaptability, and the intelligence of systems, among other things.

The aim of the Special Issue of Electronics is to attract original and novel articles in the field of next-generation OWC. Authors are invited to submit manuscripts within the scope of the topics including, but are not limited to, the following areas:

- Optical system structure design and performance analysis;
- Optical network protocols and architectures;
- Optical links reliability and security;
- Free space optical wireless communication;
- Underwater optical wireless communication/Visible light communication;
- Sensing and optical wireless communication convergence;
- Radio frequency/optical wireless communication hybrid systems and networks;
- Novel materials and devices for next-generation optical wireless communication.

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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