



Coherent Transmission Systems in Optical Wireless Communication

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Message from the Guest Editors

Coherent optical transmission systems are used to transmit high-speed data over long distances using optical fibers. These systems rely on the coherent detection of light signals, which allows for the recovery of both the amplitude and phase of the transmitted signal.

The goal of this Special Issue is to address the difficulties and prospects of optical wireless communication with regard to coherent transmission systems, as well as their potential optical solutions, by examining possible development paths, obstacles, and frontier technologies. Additionally, the issue aims to provide a platform to present the latest innovations and research in coherent free space optics. Original research articles and reviews on recent processes and developments will be welcomed. Topics include but are not limited to the following:

- Free space optics (FSO);
- Optical wireless communication (OWC);
- Visible light communication (VLC);
- Optical modulator;
- Optical detector;
- New modulation format and technology;
- Advanced DSP algorithm;
- Machine-learning-based algorithm.

