

Special Issue

Optical Wireless Technologies for B5G

Message from the Guest Editors

With the advent of the era of 5G, systems and networks have enabled an array of innovative applications. However, because of the ever-increasing demand from the exploding number of heterogeneous devices and services, research on developing a new architecture with higher data-capacities, more device connection, and better devices/systems/networks is actively taking place worldwide, in the name of B5G (beyond 5G). Optical wireless technologies provide a promising platform for augmenting the existing framework, through its unlicensed optical spectrum, advanced devices and communication schemes, and eco-friendly light spectrum, paving a new road to B5G. Several key research challenges have emerged within the optical wireless technology domain, including (but not limited to) the following:

- Photonics THz communications
- High-speed optical wireless techniques for B5G
- Reconfigurable optical wireless devices and systems
- Machine-learning in optical wireless technologies
- Green OWC/VLC/LiFi devices and systems
- Optical wireless for V2X
- Optical wireless devices, systems, and networks for IoT and Industry 4.0
- Physical layer security using VLC

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