



Optical Wireless Technologies for B5G

Guest Editors:

Prof. Dr. Hyunchoe Chun

Dr. Sujan Rajbhandari

Prof. Dr. Feng Feng

Prof. Dr. Sung-Man Kim

Prof. Dr. Joonyoung Kim

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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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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
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