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Advances in Optical Wireless Technologies and Applications

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Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editors

Dear Colleagues,

Fascinating opportunities are opening for optical wireless technologies due to the ever-increasing demand for high-speed data transmission and radio frequency spectrum congestion. Optical wireless technologies could be critical enablers for flexible, high-capacity communication systems/networks, especially in 5G/6G, aerospace, and IoT applications. Additionally, optical wireless technologies are applicable for quantum key distribution (QKD), wireless power transfer, light detection and ranging (LiDAR), and tactical military operation.

- Optical wireless communications (OWC)
- Free space optical communications
- Visible light communications
- Ultraviolet communications
- Optical camera communications
- Channel modeling for optical wireless systems
- Modulation / coding / multiple access techniques for OWC systems
- Cross-layer designs for OWC networks
- Pointing, acquisition, and tracking for optical wireless systems
- Optical wireless fronthaul/backhaul networks for 5G/6G
- Unmanned aerial vehicle (UAV) / underwater / vehicular OWC systems and networks
- Hybrid RF/OWC systems and networks
- Optical indoor positioning systems
- Optical wireless power transfer

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