



Optical Wireless Sensor Networks: Research and Applications

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Message from the Guest Editor

Wireless sensors are prevalent in various applications in both outdoor and indoor environments for building, factory or house monitoring or health monitoring in wearable systems in medical sports, wellness or military contexts. Conventional wireless communications are based on radiofrequency technologies, which may cause security or interference issues due to the increasing number of communicating devices or be incompatible for places or people sensitive to electromagnetic fields, such as wearers of pacemakers or infants. Optical wireless networks inherently overcome these issues and constitute a challenge in these contexts.

This Special Issue aims to bring together recent research and applications on optical wireless sensor networks, from the hardware layer to the network layer. The main topics of interest include, but are not limited to:

- Smart and miniaturized optical wireless sensor nodes;
- Optical wireless body sensor networks;
- Free-space and underwater wireless sensor networks;
- Optical wireless transceivers;
- Quality of service, networks, routing and protocols for optical wireless networks;
- Energy harvesting in optical wireless sensor networks.





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Message from the Editor-in-Chief

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