

# Call for Papers

## *IET Optoelectronics*

**Editor-in-Chief:** Richard Penty, University of Cambridge, UK

### **Special Issue:** Optical Wireless Communications

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Wireless communications have significantly been evolved in recent years thanks to the advanced technology of Smartphones, portable devices and the growth of Internet of Things, e-Health, e-Commerce and social networking. Since the last decade, optical wireless communications (OWC) has been growing fast and becomes important for wireless data transmission for outdoor and indoor environment. The technology can penetrate to future households as a part of utilities thanks to the popularity of white light emitting diode (LED) device used in home and office lighting systems. OWC offers good advantages to radio frequency (RF) communications including free license, wide bandwidth and no interference.

Nevertheless, the widespread deployment of optical wireless systems, namely infra-red and visible light communications, is still challenged by several factors, such as weather effects, safety regulation and device performance. This leads to a great attraction for global research and development. The special issue will aim to bring together cutting edge research contributions that address challenges in optical wireless communications. Of particular interest is the following non-exclusive list of principal topics:

- Visible light communications (VLC) – lighting and data communications
- Modelling of indoor and outdoor optical wireless channels and networks
- Modulation schemes, coding and signal processing techniques for OWC
- Multiple-Input-Multiple-Output (MIMO) VLC and OWC
- Laser satellite communications
- Underwater OWC
- Ultraviolet communications
- Applications of OWC in Internet of Things, Smart transportation system, e-Health, e-Commerce
- Optical wireless sensor networks
- Security in OWC system
- Hybrid OWC-RF system
- Devices and component development for high performing OWC system
- Network design for OWC including architecture, multiplexing, cross-layer design and MAC

All submissions are subject to the journal's peer-review procedures. The authors should follow the journal's Author Guide at <http://digital-library.theiet.org/journals/author-guide> when preparing papers for submission to the Special Issue.

#### For enquiries regarding this Special Issue please contact Guest Editors:

#### Important dates:

**Submission deadline:**  
15 Oct 2014

**Special Issue Publication:**  
3rd Quarter of 2015

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