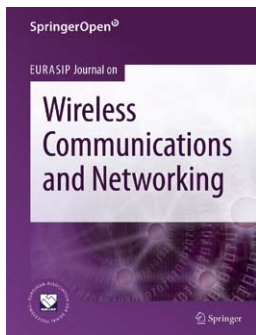


EURASIP Journal on Wireless Communications and Networking

Special Issue on Visible Light Communications

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Day by day, more rooms and interior spaces are being illuminated through solid-state sources, and predictions show that they will become the dominant lighting source in the coming decades. The reasons for this are the high efficiencies that are reaching the LED-based devices, and the long lifetimes of the emitters. Visible Light Communications is an emerging field of development based on modulation of the LED light source, overcoming the problems of both conventional radio (EM interference and compatibility, undesired access from other users, saturation of widely used radio frequencies...) and infrared (the need for a strict alignment, eye safety considerations, etc.). The main objective of this Special Issue on Visible Light Communications is bringing together recent advances in this field. Topics of interest include, but are not limited to:

Network considerations:

- ▶ Internetworking
- ▶ Sensor Mesh Networking
- ▶ Heterogeneous Networks
- ▶ Security in Wireless Networks
- ▶ Broadcasting
- ▶ Network Protocol Performance Modelling & Simulation
- ▶ Medium Access Control (MAC) protocols
- ▶ Synchronization

Physical layer considerations

- ▶ Energy Efficiency and Illumination
- ▶ Optical and Electronic Components, Circuits and Devices
- ▶ Channel Modelling
- ▶ Noise Analysis
- ▶ Modulation and Coding
- ▶ Optical MIMO
- ▶ Multiuser Access and Duplexing
- ▶ High Data Rate Connections

Applications

- ▶ Smart Home Applications
- ▶ Vehicular Technology
- ▶ Urban and Outdoor Systems
- ▶ Health and Public Facilities
- ▶ Industry and Energy Facilities
- ▶ Localization, Target Tracking, and Mobility Management
- ▶ Spectrum Relief

Regulation

- ▶ Standardization activities
- ▶ Eye-Safety Considerations

Submission Schedule

- ▶ **Manuscript Due:**
March 31, 2012
- ▶ **First Round of Reviews:**
June 30, 2012
- ▶ **Publication Date:**
September 30, 2012

Submission Instructions:

Before submission authors should carefully read over the Instructions for Authors, which are located at <http://jwcn.eurasipjournals.com/authors/instructions>. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at <http://jwcn.eurasipjournals.com/manuscript> according to the submission schedule. They should specify the manuscript as a submission to the “Special Issue on Visible Light Communications” in the cover letter. All submissions will undergo initial screening by the Guest Editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

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