Special Issue

Recent Advances in Visible Light Communication and Positioning Systems

Message from the Guest Editors

As one of the technologies anticipated to be involved in 6G, visible light communication and positioning (VLCP) has attracted a tremendous amount of attention from both academia and industry due to its Gb/s data transmission rate and centimeter-level location accuracy. Several key research challenges in the VLCP domain include integration with the existing network infrastructures, channel modeling, joint communication and positioning, and low-cost solutions. In terms of global development, VLC is standardized both in IEEE and ITU-T, and current efforts focus on its integration with WiFi and 3GPP architecture. Compared to RF-based communication and positioning, VLCP has several unique advantages: i) large unlicensed bands, ii) no interference with existing RF devices, iii) high spatial multiplexing and inherently narrow interception range, iv) high energy efficiency due to its dual-use nature, and v) precise location indicator due to its dominant line-of-sight signals. This Special Issue, therefore, aims to put together original research and review articles on recent advances, technologies, applications, and new challenges in the field of VLCP systems.

Guest Editors

Dr. Sihua Shao

Dr. Shuai Ma

Dr. Yanbing Yang

Dr. Chen Chen

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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

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