Special Issue

Underwater Wireless Communications

Message from the Guest Editors

Effective underwater wireless communications (UWCs) are essential for a number of both military and civil applications. Four communication techniques are utilized in the ocean environment: optical, electromagnetic, magnetic induction communication, and acoustic communication. Each has its advantage and disadvantages. Efforts in this area have been made by both researchers and industry to improve underwater wireless communication and discover the role of ocean water in reinforcing environmental sustainability. However, the physical characteristics of the oceanic environments still pose important challenges. These environmental challenges restrict the recharging capabilities of underwater communication nodes and limit the underwater channel bandwidth. These challenges have motivated us to invite interested researchers to design highly efficient energy and spectral underwater wireless communication systems. The new designs can be based on deep learning and artificial intelligence. This Special Issue may include signal processing algorithms designed to improve underwater wireless sensor nodes, thus enabling the Internet of Underwater Things.

Guest Editors

Dr. Haixin Sun

Deportment of Information and Communication Engineering, Xiamen University, 422 Siming South Road, Xiamen 361005, China

Prof. Dr. Hamada Esmaiel

Electrical Engineering Department, Faculty of Engineering, Aswan University, Aswan 81542, Egypt

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

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Message from the Editor-in-Chief

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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