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Underwater Wireless Communications

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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.









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Message from the Editor-in-Chief

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