

Special Issue

Underwater Acoustic Communications and Sensor Networks

Message from the Guest Editors

In recent decades, digital communication technology has developed rapidly, of which underwater communication is an important part. At present, acoustic communication is a very effective means of underwater long-distance information transmission. People expect to realize the transmission of text, language, pictures and other signals through underwater acoustic communication technology. After years of development, underwater acoustic communication technology has developed to the stage of networking. The application of network technology (ad hoc) in radio to underwater acoustic communication networks can realize all-around and three-dimensional communication in the ocean (which can be combined with AUV, UUV and other unmanned equipment used in combination). However, there are still many problems to be overcome, such as complex underwater acoustic channels, high environmental noise, narrow channels, low carrier frequency, and other factors restricting the data transmission rate. This Special Issue aims to collect high-quality research papers on underwater acoustic communications and networking systems.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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