

Special Issue

Underwater Acoustic Communications and Networks

Message from the Guest Editor

In general, acoustic waves are used for underwater wireless communications and networks. Underwater acoustic communications and networks should overcome (1) the limited data rate due to the narrow bandwidth and the extended multi-paths that change rapidly over time and (2) network throughput degradation induced by the long propagation delay of sound waves. Despite the ongoing efforts to improve the performance of underwater acoustic communications and network protocols, it is still a challenging area. This Special Issue solicits original research papers that address, but are not limited to, the following topics:

- Underwater acoustic channel modeling
- Information theoretic analysis of underwater wireless communications and networks
- Underwater acoustic modem design
- MIMO communications
- Network architecture
- Spatial reuse multiple access
- MAC and routing protocols
- Network localization
- Transport protocols
- Machine learning applications
- Underwater mobile platforms (AUV, ROV, etc.)
- Experimental verification

Guest Editor

Dr. Youngchol Choi

Marine ICT Research Division, Korea Research Institute of Ships and Ocean Engineering, 32 1312 beon-gil, Yuseong-daero, Yuseong-gu, Daejeon 305-343, Republic of Korea

Deadline for manuscript submissions

closed (30 April 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 6.1



mdpi.com/si/18825

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

[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 6.1



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)