

Special Issue

Internet of Underwater Things: Applications and Challenges

Message from the Guest Editor

The ocean is an important place for human activities such as fishery and maritime transportation. As human activities in oceans continuously increase, the provisioning of high-performance, cost-effective and reliable communication network services in oceans becomes an important research topic. Since radio signals and optical signals do not propagate through long distances underwater, as they suffer from severe path losses and scattering with high frequency, acoustic waves appear to be a good choice. However, underwater acoustic links are significantly different from radio links in certain aspects, such as their low propagation speed, long transmission range, and limited bandwidth. The communication techniques and networking protocols successfully applied in radio networks cannot be directly extended to an acoustic network. Meanwhile, underwater devices are usually expensive and difficult to deploy. Hence, underwater internet access appears to be the most challenging issue in the application of maritime internet.

Guest Editor

Prof. Dr. Fangjiong Chen

School of Electronics and Information Engineering, South China University of Technology, Guangzhou 510640, China

Deadline for manuscript submissions

closed (10 September 2022)



Applied Sciences

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.5



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

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Editor-in-Chief

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

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