



Internet of Underwater Things: Applications and Challenges

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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.





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Message from the Editor-in-Chief

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