



Underwater Wireless Communications and Sensor Networks Technology

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Message from the Guest Editors

In the industrial, military, and scientific world, the development of efficient and robust wireless communication links is of enormous importance. In this context, underwater wireless communication has received renewed interest worldwide, because of its low power consumption, cost-effectiveness, low latency, compact antennas, and high bandwidth. It has become vital in numerous burgeoning applications and verticals, including real-time video transmission, telemetry, disaster prevention, surveillance environment, offshore exploration, and oceanographic studies. In the underwater environment, wireless communication has proven its stature as being more competitive than its acoustic and radio frequency counterparts. By leveraging the low-absorption window of seawater in the blue–green spectrum region, optical signals have the potential to transmit several tons in general waters. Moreover, a UWC network can be established through optical links, to further mature this technology by enhancing the flexibility, reliability, robustness, and transmission range. The ongoing developments in UWC pave the way to construct the next-generation high-performance Internet of Underwater Things.





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Message from the Editor-in-Chief

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