



Underwater Networking

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Message from the Guest Editors

Current underwater deployments often comprise low numbers of instruments recording data during a mission for later retrieval. Improvement in underwater networking is required to transform our ability to explore the oceans, by enabling continuous data collection and control of a potentially large number of underwater sensing and communication devices from remote sites. Recent developments in underwater sensing, robotics (such as autonomous underwater vehicles), and low-cost acoustic modem design are notable enabling technologies. Further research on this topic needs to be underpinned by an understanding of the underwater channel, different application requirements, and practical deployment constraints.

The purpose of this Special Issue is to solicit original research papers on all aspects of underwater networking, including (but not restricted to):

- Multiple-access techniques
- Medium access control
- Link-layer reliability
- Multi-hop routing
- Localisation and tracking
- Mobility management
- End-to-end quality of service provisioning
- Integration with terrestrial systems (e.g. via radio backhaul)
- Cross-layer design





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Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

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