



New Advances in Underwater Communication Systems

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Deadline for manuscript
submissions:

15 October 2024

Message from the Guest Editors

Underwater acoustic communications (UWACs) play significant roles in diverse sectors such as underwater ocean exploration, marine research, environmental monitoring, and military applications like submarine communications. Academia and industries have conducted research and development (R&D) in UWACs to enhance marine innovations intelligently. However, the unique characteristics of underwater environments pose major obstacles to the development of wireless communication and networking systems due to the hostile environment, strong signal attenuation, multipath dispersion, Doppler shift, mobility, link and topology dynamics, etc. In recent times, both academia and industry have made notable efforts to overcome these challenges. This Special Issue's scope encompasses but is not restricted to:

- Underwater channel modeling, estimation and characterization;
- Underwater ranging, localization and tracking;
- Underwater surveillance and monitoring;
- Underwater network optimization and resource allocation;
- Underwater covert communication;
- Machine/deep learning-based underwater communication;
- Underwater Internet of Things (UIoT).





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Message from the Editor-in-Chief

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