Special Issue

New Advances in Underwater Communication Systems

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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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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