Special Issue

Underwater Intelligent Detection and Object Recognition Based on Deep Learning

Message from the Guest Editors

Due to its powerful feature extraction ability, deep learning can effectively overcome the interference of complex underwater environments, significantly improving the accuracy and efficiency of object detection and recognition. At the same time, it enhances environmental adaptability and real-time processing capabilities, promoting the transformation of underwater detection from the traditional mode to intelligent autonomous decision-making. Moreover, it facilitates the interdisciplinary integration of multiple disciplines, providing key technical support for fields such as marine resource development, environmental monitoring, and military applications. This Special Issue, therefore, aims to showcase original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the field of underwater intelligent detection and object recognition based on deep learning.

Guest Editors

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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