

## Special Issue

# Underwater Acoustic Imaging and Image Processing Technology

### Message from the Guest Editor

As one of the hotspots in the research field of underwater acoustic imaging, image processing technology makes use of the advances of neural networks, pattern recognition, machine learning, and other advanced technology. A lot of progress has been made in image reconstruction, image stitching, classification, and recognition. To show the latest research progress, we have set up a Special Issue of “Underwater Acoustic Imaging and Image Processing Technology” and invite research papers from experts and scholars. Potential topics include but are not limited to the following:

Design and development of acoustic imaging systems;

Applications of underwater acoustic imaging sonar;

Analysis and processing of underwater acoustic images;

Detection and classification in underwater acoustic images. Keywords

- Side-scan sonar
- Synthetic aperture sonar
- Multibeam sonar
- Underwater acoustic tomography
- Underwater 3D acoustic imaging
- Image mosaic
- Image processing
- Object identification and classification
- Moving target detection and tracking
- Underwater security techniques

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### Guest Editor

Dr. Jie Tian

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### Deadline for manuscript submissions

closed (25 March 2022)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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