Application of Deep Learning in Underwater Image Processing

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Message from the Guest Editors

Dear Colleagues,

Underwater image processing is one of the key technologies driving advancements in fields such as marine biology, oceanography, underwater exploration, and more. In recent years, deep learning technologies have emerged as a game-changer in addressing these challenges and improving underwater image quality. These technologies provide new opportunities and insights, enhancing their applicability and reliability in real-world scenarios. This Special Issue aims to bring together leading researchers and practitioners from around the world to showcase their latest research findings and future directions in this dynamic field.

Topics of interest include but are not limited to, the following: Underwater image enhancement and restoration; Underwater image denoising; Underwater object detection and classification; Underwater object tracking; Underwater object recognition; Underwater scene understanding; Underwater image depth estimation; Underwater 3D modeling; Underwater image synthesis and generation; Generative AI for underwater image processing; Underwater image quality assessment methods, etc.

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Message from the Editor-in-Chief

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