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Monitoring Aquatic Environments Using LiDAR

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Deadline for manuscript submissions:
closed (30 June 2022)

Message from the Guest Editors

Dear Colleagues,

The study of freshwater and marine ecosystems based on Light Detection And Ranging (LiDAR) and other electro-optical systems technologies has received a major attention in recent years due to the development of more advanced sensors, embedded photonic and electronic subsystems, and the availability of suitable laser devices. The launch of new spaceborne LiDAR systems (e.g., ICESAT-2) and the increased capabilities of autonomous robotic airborne and maritime platforms have further enabled this expansion.

Nowadays, more advanced LiDAR sensors are capable of multi-angle measurements (e.g., ICESAT-2), hyperspectral analysis of time-resolved pulses, and characterization of suspended particles by linear-depolarization changes. Furthermore, hybrid processing algorithms have been proposed using passive optical information. This Special Issue aims to present a collection of original research articles and review papers on LiDAR technologies and applications related to the characterization of water components, water interfaces (e.g., air–water, water–bottom), and bottom characteristics.

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Message from the Editorial Board

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