Special Issue

Monitoring Aquatic Environments Using LiDAR

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

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Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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