Special Issue

Reliable Detection of Water Quality and Aquatic Ecosystem Dynamics in Inland Waters

Message from the Guest Editors

The focus of this Special Issue is on remote sensing approaches dedicated to freshwater ecosystems and inland water quality. There are already numerous studies available at the case study level and the opportunities and potential offered by remote sensing are well communicated towards the scientific community. However, maximizing the potential for reliable and large-scale application of remote sensing techniques within broader governmental and scientific surface water monitoring programmes demands going beyond case studies and simple reproduction of observations. An important aspect in this context is to go beyond a simple assessment of the current state of a given aquatic ecosystem but also to derive key features of its dynamics with respect to intra- and inter-annual time-scales, further understand drivers of water quality phenomena, and implications for water resource management and decision-making. Finally, contributions that improve our mechanistic understanding of ecosystem functioning by linking sensor signals to in situ variables and aquatic ecosystem dynamics as well as innovations in sensor development or indicator variables are highly welcome.

Guest Editors

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Deadline for manuscript submissions

closed (15 January 2025)

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Message from the Editor-in-Chief

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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