



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

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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.





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Message from the Editor-in-Chief

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