



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

Guest Editors:

Dr. Karsten Rinke

Dr. Shushanik Asmaryan

Dr. Peter Hunter

Dr. Caren Binding

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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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Editors-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
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Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and
Geographic Information Systems,
Peking University, Beijing, China

Message from the Editorial Board

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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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