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Application of Satellite Remote Sensing in Water Quality Monitoring

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Message from the Guest Editors

This Special Issue focuses on the use of remote sensing as a tool for assessing the quality of the aquatic environment. The classical methodology allows the quality of several variables, such as water transparency, nutrients and photosynthetic pigments, to be determined after sampling and analytical campaigns. This requires time and availability for field work and frequent sampling in order to determine the spatial and temporal heterogeneity of the study site. Remote sensing allows us to obtain equations that relate the quality variables to the optical properties of water using empiral methods and to other results that are not directly related to these optical properties using machine learning methods; however, this can affect the water quality.

The Special Issue will accept theoretical papers describing new methodologies or empirical applications, case studies and experimental results that are related to freshwater, coastal or marine aquatic ecosystems. In particular, we welcome studies that consider lakes, lagoons, reservoirs, estuaries and transitional waters.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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