



Application of Remote Sensing and GIS in Aquatic Ecosystems

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Message from the Guest Editors

Dear Colleagues,

Aquatic ecosystems are indispensable suppliers of biodiversity and ecological productivity and they provide a multitude of services for human populations. Hence, the quantity and quality of water resources are essential prerequisites for ecological stability and human development. The Sustainable Development Goals and other political frameworks underpin the growing importance of water resource management worldwide, including monitoring and protection, as water consumption increases. Dedicated satellite constellations and ground sampling techniques have grown considerably in recent years, providing strong leverage to meet this requirement. Their effective use requires progress in signal interpretation, data assimilation and analysis techniques, and the advancement of open data and software conventions for geospatial information and related tools. As these technologies mature, they must stand the test of specific operational user requirements such as spatio-temporal resolution, robustness, interpretability and generalization. This Special Issue focusing on “Application of Remote Sensing and GIS in Aquatic Ecosystems” is specifically aimed at addressing: 1) an overview of the use of remote sensing and GIS for monitoring rivers, reservoirs, lakes, coastal waters and wetlands; and 2) research challenges and opportunities for achieving a better understanding of aquatic ecosystems using remote sensing and GIS.

For further reading, please follow the link to the Special Issue Website at:

http://www.mdpi.com/journal/water/special_issues/Remote_Sensing_GIS_Aquatic_Ecosystems





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Message from the Editor-in-Chief

The relevance of water in human development and sustaining life, fuels general and scholarly interest in the world's water resources. A better understanding of all aspects of water and its relation to food supply, energy production, human health, and the functioning of ecosystems is key in managing this precious resource in a sustainable, efficient and equitable manner. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications. We ensure a critical review process and a quick turnaround between submission and final decision.

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