



Water Quality Assessment Based on Optical Remote Sensing Imagery

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Message from the Guest Editors

Water quality describes the condition of water, including any potential chemical, physical, and biological characteristics. In recent years, declining water quality has become a global issue of significant concern as anthropogenic activities expand, natural environments become degraded, and climate change threatens to cause major alterations to the hydrological cycle. Therefore, timely and accurate monitoring of water quality and changing trends is of great significance for improving the management of water resources and protecting the water environment.

Water quality is measured by several factors, including optically active parameters and non-optically active parameters. Optical remote sensing monitors the water quality by measuring the parameters that change the spectral properties of water bodies upon their interaction with light. Compared with conventional surface water quality assessment methods, optical remote sensing has the advantages of low cost, spatial continuity, and temporal consistency.

The Special Issue invites researchers to submit contributions using multi/hyperspectral optical remote sensing imagery for water quality assessment.





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Message from the Editor-in-Chief

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