Special Issue

Remote Sensing Band Ratios for the Assessment of Water Quality

Message from the Guest Editors

The retrieval of surface water quality information on a large scale using remote sensing data is a powerful approach in monitoring changes in water quality parameters such as chlorophyll and phytoplankton pigments, nutrients, total suspended matter, and dissolved organic matter. However, water quality monitoring using satellite remote sensing remains challenging due to the low signal-to-noise ratio (SNR) and limited instrument resolution. While remote sensing band ratios including vegetation indices, following qualitative and quantitative field data collection, are effective methods for the retrieval of some water parameters, it has become evident that the retrieval of other parameters using an empirical modeling scenario is limited. In this context, this Special Issue is seeking contributions involving the monitoring of water quality using different remote sensing techniques based on band ratios including vegetation indices. We welcome papers that address retrieval methods of the chlorophyll content, harmful algal blooms (HABs), and other water-related parameters using empirical and/or non-parametric regression models, such as machine learning and AI.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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