Special Issue

Remote Sensing of Riparian Ecosystems

Message from the Guest Editors

Riparian (streamside) zones are dynamic ecosystems that form at the interface of aquatic and terrestrial components of the landscape. They are shaped by underlying physical processes associated with river flow. In their natural state, riparian ecosystems are characterized by high spatial and temporal heterogeneity, which supports a diversity of species, habitats, and ecological processes. Monitoring and the assessment of riparian ecosystems is challenging. Recent advances in remote sensing methods enable effective mapping, monitoring, and improved understanding of riparian systems and management outcomes. High-resolution imagery (satellite, aerial, and UAV) and digital elevation models (DEMs) constructed from LiDAR and UAVs are powerful tools for assessing the biophysical dynamics of riparian zones (e.g., hydrology, geomorphology, and vegetation) over time and three-dimensional space. Machine learning techniques can provide important insights about the long-term spatiotemporal dynamics of riparian systems (e.g., vegetation succession, habitat conditions, the extent and turnover of geomorphic surfaces) and their associated ecological functions.

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Deadline for manuscript submissions

closed (31 December 2022)

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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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