Special Issue

Remote Sensing Tools for Monitoring Vegetation and Enhancing Biodiversity Conservation Strategies

Message from the Guest Editors

In recent decades, climate change, habitat loss, and human activities have profoundly affected vegetation dynamics and biodiversity worldwide. Monitoring these changes accurately and promptly is essential for effective conservation. Remote sensing has become a vital tool for assessing vegetation health, species distribution, ecosystem shifts, and habitat fragmentation across large areas and timeframes. Advances in satellite technology, UAVs, and image analysis now provide new ways to understand ecological processes and promote sustainable biodiversity management. This Special Issue aims to gather research and practical applications using remote sensing to monitor vegetation and support biodiversity conservation. We welcome contributions that highlight how remote sensing aids in assessing, modeling, and predicting ecological variables linked to vegetation and biodiversity. Topics include methodological innovations and multidisciplinary approaches, with applications ranging from multispectral, hyperspectral, and thermal imaging to multiscale monitoring from UAVs to satellites.

Guest Editors

Dr. Marco Vuerich

Department of Agricultural, Food, Environmental and Animal Sciences, University of Udine, 33100 Udine, Italy

Dr. Giacomo Trotta

Department of Agricultural, Food, Environmental and Animal Sciences, University of Udine, 33100 Udine, Italy

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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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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.

Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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