Special Issue

Land and Water Degradation in Catchments: The Role of Remote Sensing for Assessment and Management

Message from the Guest Editors

Many landscapes are shaped by multiple uses and occupations in the rural and urban space, which frequently induce significant perturbations in soil and water characteristics, ultimately causing degradation. The catchment links soil to water degradation because it is the place where weather and hydrologic processes generate and transport loose materials and contaminants from the lithosphere into the hydrosphere. Considering the evolution of geographic information systems and the appearance of big data, particularly related to satellite images with progressively higher spatial and time resolutions, remote sensing research and applications are currently becoming topical in environmental science. The results from remote sensing assessments are expected to generate valuable insights for the scientific community, but also to trigger the implementation of politics and the development of metrics that can be used by judicial, political, and administrative authorities in the governance of soil and water.

The purpose of this Special Issue is, therefore, to bring scientists into a discussion on remote sensing applications and their potential use in sustainable watershed management.

Guest Editors

Dr. Fernando António Leal Pacheco

DG-CQVR-UTAD – Department of Geology, Chemistry Research Centre, University of Trás-os-Montes e Alto Douro, Quinta de Prados, 5001-801 Vila Real, Portugal

Prof. Dr. Luís Filipe Sanches Fernandes

CITAB—Centre for the Research and Technology of Agro-Environment and Biological Sciences, Universidade de Trás-os-Montes e Alto Douro, 5001-801 Vila Real, Portugal

Deadline for manuscript submissions

closed (26 March 2023)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/36541

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

mdpi.com/journal/sustainability

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/journal/sustainability

MDPI

About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon
School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)