



Salinity Monitoring and Modelling at Different Scales

Guest Editors:

**Dr. Maria da Conceição
Gonçalves**

Instituto Nacional de
Investigação Agrária e
Veterinária, Lisbon, Portugal

Dr. Mohammad Farzamian

Instituto Nacional de
Investigação Agrária e
Veterinária, Avenida da
República, Quinta do Marquês,
Oeiras, 2780-157 Lisbon, Portugal

Dr. Tiago Brito Ramos

Centro de Ciência e Tecnologia
do Ambiente e do Mar (MARETEC-
LARSyS), Instituto Superior
Técnico, Universidade de Lisboa,
1, 1049-001 Lisboa, Portugal

Deadline for manuscript
submissions:

closed (31 July 2024)



Message from the Guest Editors

Soil salinization, which already widely affects many regions of the world with arid and semiarid climates, becomes a top priority of research as it not only leads to the degradation of soil functions but also to yield losses, farmer's income, eventual migration of populations, and ultimately social unrest. Strategies to better tackle soil salinization problems are thus critical for supporting soil management and agricultural production. These strategies should be based on efficient monitoring programs capable of continuously evaluating the performance of the implemented management strategies.

This Special Issue aims to bring together researchers from around the world on the advances in soil salinity measurement, mapping and modeling using various proximal and remote sensing sensors and vadose zone modeling to help connect researchers working in a similar area to tackle the globally critical issue and enhance soil security.

- soil salinity
- soil hydraulic properties
- pedotransfer functions
- proximal soil sensing
- remote sensing
- electromagnetic induction
- digital soil mapping
- machine learning
- arid and semi-arid climate
- agricultural water management



land



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Christine Fürst

Institute for Geosciences and
Geography, Department
Sustainable Landscape
Development, University of Halle,
Von-Seckendorff-Platz 4, 06120
Halle, Germany

Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant impact factor, and has a goal to become the best journal in land in the coming years. I strongly recommend *Land* for your best research publications for a fast dissemination of your research.

Author Benefits

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

High Visibility: indexed within Scopus, SSCI (Web of Science), PubAg, AGRIS, GeoRef, RePEc, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Nature and Landscape Conservation)

Contact Us

Land Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/land
land@mdpi.com
X@Land_MDPI