Special Issue

Deep Learning on the Landsat Archive

Message from the Guest Editors

Landsat observations offer global, consistent coverage spanning more than fifty years. They have been instrumental in a wide range of studies in land cover and land use. The application of deep learning has emerged as a compelling methodology for use to analyze and extract knowledge from this large data archive. The goal of this Special Issue is to collect studies that integrate deep learning methods with the lengthy Landsat observational record. Submissions must use deep learning methods and be applied on Landsat observations. Non-DL methodologies and non-Landsat observations are also welcome in the context of comparison and calibration/validation, respectively, but not as standalone studies. We invite manuscripts in:

- fusion with other sensors of different spectral and spatial resolutions and/or signal types and super-resolution tasks,
- the effect and support of reference data types and availability,
- image preprocessing methods, such as sensor calibration/validation and atmospheric correction,
- time series analysis and change detection,
- reviewing collections of validation data appropriate for integration with the Landsat archive.

Guest Editors

Prof. Dr. Giorgos Mountrakis
Dr. Pete Doucette
Dr. Neal J. Pastick

Deadline for manuscript submissions

closed (30 January 2025)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 9.4

mdpi.com/si/168512

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Message from the Editorial Board

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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