Special Issue

Deep Learning for Multi/Hyperspectral Image Analysis and Near-Surface Geophysics: Applications in Mineral Identification and Geo-Environmental Monitoring

Message from the Guest Editors

This Special Issue aims to showcase cutting-edge research integrating deep learning approaches into near-surface geophysical methods and multi/hyperspectral remote sensing data to advance our understanding of complex geological and environmental systems. We seek contributions that bridge the surface–subsurface analytical divide, and especially those with particular emphasis on mineral identification and geo-environmental monitoring applications. The featured works will highlight innovative methodologies that leverage the complementary nature of spectral imaging data and geophysical measurements. By synthesizing recent innovations, addressing current technical challenges, and identifying promising research directions, this Special Issue aims to accelerate the development of comprehensive analytical frameworks that can support sustainable resource management and environmental protection in an increasingly resource-constrained world. We welcome original research articles, reviews, technical notes, and perspective papers addressing the intersection of deep learning with multi/hyperspectral remote sensing and near-surface geophysics.

Guest Editors

Prof. Dr. Jaehyung Yu

Dr. Young-Sun Son

Prof. Dr. Seung-Sep Kim

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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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