Special Issue

The Emerging Trends and Applications of Big Data and Machine Learning/Artificial Intelligence (AI) in Remote Sensing

Message from the Guest Editors

Remotely sensed data generated by various platforms (e.g. satellite, manned aircraft, unmanned aerial vehicle and ground-based systems) is a unique source of big data, which has great potential for informative decision making in many domains, including agriculture, environment, business activities, and transport. Recent advances in data science and AI/machine learning have shown a lot of promise in processing, management and analysing such large and heterogeneous data sources at both local and global scales for various tasks, including land use and land cover mapping (classifications), object-based image analysis (segmentation, object detection), and quantitative modelling (plant biophysical/biochemical parameter retrieval, yield estimation, ecological assessment). This special issue aims at providing an updated, refreshing view of current developments/emerging trends and applications in the field. The ultimate goal is to promote research and sustainable development of advanced big data analytics and AI/machine learning schemes for efficient analysis of remotely sensed data.

Guest Editors

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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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