Special Issue

Data Science and Machine Learning for Geodetic Earth Observation

Message from the Guest Editors

This Special Issue will address recent progress in the application of methods from data science and machine learning to geodetic Earth observation. Special emphasis will be placed on innovative approaches for harnessing geodetic “big data” for scientific purposes using deep learning. In particular, we encourage investigations related to (but not limited to) improved geodetic parameter prediction (e.g., Earth orientation parameters), detection of spatiotemporal patterns and anomalies (in both images and time series, for example, jump detection), automation of geodetic data processing, and the combination of inhomogeneous observational data and geophysical models (including the exploitation of auxiliary information). Furthermore, we specifically invite contributions that deal with aspects of machine learning sometimes critically seen by geodesists, including challenges related to the quantification of uncertainties, interpretability of results, as well as the integration of physical information. Studies based on more limited data sets from various space geodetic techniques with the goal to solve complex nonlinear problems are welcome as well.

Guest Editors

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Deadline for manuscript submissions

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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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