Special Issue

SAR Data Processing and Applications Based on Machine Learning Method

Message from the Guest Editors

Due to the explosive growth of data and great advances in computing power, machine learning techniques are helpful for the transformation of remote sensing technology from model-driven to data-driven. Machine learning SAR offers many opportunities for exploration, considering the unique nature of SAR signals and images. The unique non-linear capability of machine learning revealed the potential of SAR processing and application, such as target recognition, feature scene classification, speckle noise, and ambiguity energy suppression. Next-generation SAR spacecraft may also carry edge computers based on AI platforms. In the future, machine learning SAR will significantly reduce the workload of scientists and engineers, enhance the application value of SAR data, and even influence the underlying design concepts of novel space SAR systems. This Special Issue encourages the submission of reviews and regular papers on machine learning with SAR systems, 2D/3D/4D imaging methods, SAR image enhancement, SAR target detection and terrain classification, SAR image understanding, and trustworthy intelligence processing.

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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.

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