Special Issue

SAR in Big Data Era

Message from the Guest Editors

Synthetic aperture radar (SAR) technology is widely used in earth observations due to its illumination- and weather-independence capability. Tens of SAR satellites are orbiting Earth each day, with TB-level data acquisition. We face the challenge of processing these data with various frequency, polarization, imaging modes, etc., and retrieve information in precise and efficient ways. In the big data era, advanced hardware and high-performance computing technologies are being invented rapidly to tackle the data challenge. Recently, deep learning is showing its self-learning power, and successfully applied to variant fields including image understanding. These will no doubt provide chances and even lead to fundamental changes in SAR remote sensing. The aim of this Special Issue is to share our experiences of processing of SAR data with large volumes and variant modes, and information retrieval with advance algorithms. The scope includes high performance computing, machine learning, deep learning, object recognition, parameter retrieval algorithms.

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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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