Special Issue

Spaceborne High-Resolution SAR Imaging

Message from the Guest Editors

Spaceborne SAR is a wide-range active microwave imaging equipment, which has great applicative value in military reconnaissance, topographic mapping, disaster monitoring, agricultural and forestry detection and other related areas. As the wide application of spaceborne synthetic aperture radar continues to progress, the demand for high spatial resolution and high temporal resolution in both military reconnaissance and civilian monitoring applications is increasing. At present, the resolution of the most advanced microwave photonic radar has reached the centimeter or even the millimeter level; however, this also poses a number of challenges to the design and imaging of the SAR system, such as the contradiction between a high resolution and a wide swath, the bending problem of satellite orbits, poor real-time imaging, and difficulties involved in image recognition caused by big data. In view of the above problems, the innovative development of new systems and technology for spaceborne high-resolution SAR will become the focus of research.

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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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