Special Issue

Advances in Radar, Optical, Hyperspectral, Infrared, and Sonar Technology: Data Acquisition, Processing, and Applications

Message from the Guest Editors

Recently, a variety of sensors have been widely used in the field of remote sensing. They can complement each other to achieve all-around high-precision observation of the Earth. The radar sensors actively transmit electromagnetic waves, which can penetrate clouds and fog without being affected by light. Optical sensors can capture the color information of ground objects and have a better visual observation effect. Hyperspectral sensors can detect substances with diagnostic spectral absorption characteristics, and can accurately distinguish the types of vegetation cover on the ground, roads, and ground materials, etc., which improves the accuracy and reliability of imaging high quantitative analysis. The infrared sensors are free from electromagnetic interference and can accurately track the thermal target from a long distance, as well as accurately locate and navigate. Sonar sensors can work well under water to realize ocean and river observation. From above, radar, optical, hyperspectral, infrared, and sonar all play an important role in remote sensing.

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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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