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High-Performance Computing in Geoscience and Remote Sensing

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Message from the Guest Editors

Dear Colleagues,

In recent years, high-performance computing facilities and techniques have been dramatically advanced. For instance, the popular graphics processing unit (GPU) has evolved into a highly parallel many-core processor with tremendous computing power and high memory bandwidth to offer two to three orders of magnitude speedup over the CPU. This Special Issue of *Sensors* aims to publish the recent advances in utilizing newly high-performance computing facilities to expedite the processing and analysis of geoscience and remote sensing data for various applications. Papers are solicited in, but not limited to, the following areas:

- High performance computing for optical, microwave, and lidar remote sensing data processing and analysis.
- High performance computing for spaceborne, airborne, and UAV platforms.
- High performance computing for on-board processing.
- Recent development of high performance computing solutions for machine learning, artificial intelligence, deep learning, and big data analytics.

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Guest Editors



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Special Issue



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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