

Special Issue

Data Sensing Techniques and Processing Algorithms for Smart and Sustainable Agriculture

Message from the Guest Editors

Technological developments have enabled agriculture to become smarter through the integration of a diverse array of sensing instruments and techniques used to measure, monitor, and manage crop and soil conditions. From proximal IoT devices to aerial and satellite-based remote sensing platforms, data is captured in various formats, across multiple resolutions and spectral ranges. While these technologies generate vast amounts of raw data, their true value lies in how that data is processed and transformed into actionable insights. Effective data processing is essential to address critical agricultural challenges such as irrigation management, phenological monitoring, pest and disease detection, and adaptation to climate variability. Techniques may span from traditional statistical approaches to advanced artificial intelligence and machine learning models. This Special Issue seeks to highlight innovative research in data sensing and processing for agriculture. Submissions focused on the analysis, interpretation, and application of agricultural data using both conventional and cutting-edge techniques are welcomed.

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About the Journal

Message from the Editor-in-Chief

Algorithms are the core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

Editor-in-Chief

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