



agriculture



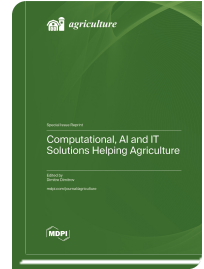
Special Issue Reprint

Computational, AI and IT Solutions Helping Agriculture

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This Special Issue was a natural continuation of our previous Special Issue, titled “Internet and Computers for Agriculture”; this one extended further, covering recent and current progress in the application of computational solutions, artificial intelligence (AI), and information technologies (IT) in modern agriculture. Currently, rapid changes are taking place at a planetary scale, including human population growth and global climatic and ecological changes, resulting in a call for immediate sustainable and secure smart solutions for food production, water supply, greenhouse (GHG) gas emissions, and environmental health.

This Special Issue provided a stage for the innovative research of scientists and entrepreneurs involved in the development and application of various software products, and digital solutions for agriculture, agroecosystems, and natural ecosystems with applications in agriculture, to be presented. The submission of original articles and reviews involved mobile apps, web applications, internet platforms, Internet of Things (IoT) devices, cloud technologies, AI and machine learning (ML) methods, and applications for precision agriculture, monitoring, cultivation, harvesting, marketing, management, decision making, weather forecasting, optimization, natural language processing, computer/machine vision, drones, real-time detection systems, sensors for field operations, smart agriculture machinery, diagnostics, species and disease recognition, big data collection, scientific-process-based mathematical modeling, and machine learning modeling, which can contribute to modern agriculture now and in the future.



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