

Special Issue

Computer Vision and Artificial Intelligence in Precision Agriculture

Message from the Guest Editor

The ongoing digitalization of agricultural production and the rapid advancement of data acquisition technologies, such as multispectral imaging and computer vision systems, have opened new avenues for AI-driven analytics. In particular, computer vision and machine learning techniques have enabled the processing and interpretation of complex visual data, forming the basis for precise monitoring of crop status, soil conditions, and environmental variability. These methods play a crucial role in early disease detection, assessment of biotic/abiotic stress, optimization of agronomic practices, and yield prediction. This Special Issue aims to present the latest research in computer vision and AI applied to precision agriculture. We invite contributions on innovative algorithms and advanced data-analysis frameworks, as well as experimental and implementation-oriented studies that demonstrate the practical potential of AI-based methods in modern agriculture. Submissions addressing methodological challenges, system-level integrations, or emerging applications that support sustainable and technologically advanced food production systems are particularly welcome.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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