Artificial Intelligence in Agriculture

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editors

Dear Colleagues,

Over the last decades, several emerging technologies and techniques have been developed for precision agriculture application. Artificial neural networks and deep learning algorithms are increasingly used in remote sensing and machine vision applications. Deep convolutional neural networks (CNNs) are the most widely used deep learning approach for image recognition. These methods have achieved dramatic improvements in many domains, and have attracted considerable interest from both academic and industrial communities.

This Special Issue focuses on the recent advances in artificial intelligence applications in agriculture and natural resources. Potential Topics include, but are not limited to, the following:

- Remote sensing
- UAV applications in agriculture
- Machine and computer vision
- Automatic tools for disease and pest detection
- High-throughput phenotyping tools
- Yield prediction techniques
- Big data analytics
- Precision agriculture
- Digital and smart agriculture and machinery
- Decision support systems, crop modeling, and optimization
- Agroclimatology.

Special Issue