Topical Collection

Exploring the Application of Artificial Intelligence and Image Processing in Agriculture

Message from the Collection Editors

Within the agricultural sector, the implementation of AI has led to significant improvements in crop production and real-time monitoring, harvesting, processing, and marketing. Various hi-tech computer-based systems have been developed to determine important parameters such as weed detection, yield detection, and crop quality. Based on this, this special issue welcomes original research articles, review articles, perspective papers and short communications on the following topics of interest

- AI-based precision agriculture;
- Smart sensors and Internet of Things;
- Agricultural robotics and automation equipment;
- Computational intelligence in agriculture;
- AI in agricultural optimization management;
- Intelligent systems for agriculture;
- Precision agricultural aviation;
- Expert systems in agriculture;
- Remote sensing in agriculture;
- AI technology in aquiculture;
- AI in food engineering;
- Automatic navigation and self-driving technology;
- Intelligent interfaces and human–machine interaction;
- Machine vision and image/signal processing;
- Machine learning and pattern recognition.

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