Special Issue

Artificial Intelligence and Key Technologies of Smart Agriculture

Message from the Guest Editors

Artificial intelligence holds a lot of promise for the agricultural industry. It helps us to analyze big data on crops and make useful inferences, and provides effective decision support to farmers. It effectively addresses the issues of poor productivity and manpower shortages. Artificial intelligence is now widely applied in all aspects of crop production, boosting the efficiency of resource allocation and the exploitation of agricultural production factors. This Special Issue seeks to present the most recent artificial intelligence research results in the subject of smart agriculture. Authors are encouraged to submit high-quality research papers on intelligent field sensors, field operation robots (picking, weeding, fertilization, etc.), autonomous navigation technology, crop detection and identification, yield prediction, pest and disease prediction, growth state prediction, and other related topics. Review of theoretical techniques as well as real-world examples are welcome.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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