Special Issue

Intelligent Information System for Agriculture Based on Vision Technology

Message from the Guest Editors

Climate change poses a significant threat to global agriculture. Various factors such as frequent drought, increasing urbanization, and soil erosion, among others, are limiting crop productivity. To tackle such challenges, modern farming is undergoing a revolution with the emergence of intelligent technology. Intelligent information systems for overall farmland are now becoming cutting-edge research areas. Unlike traditional methods, intelligent farming uses data to tailor farming practices to specific areas or even individual plants within croplands. This shift is a game-changer, paving the way for more efficient and eco-friendly food production. Advancements in sensors, data collection tools, GPS, and the Internet of Things (IoT) have opened up tremendous possibilities towards building intelligent farming systems. Given the profound development of intelligent technology, drones, and data-driven methodologies in agriculture, this Special Issue aims to bring together the latest novel contributions within the intersection of intelligent information systems, sensors, and vision technologies.

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