

Special Issue

Application of UAV and Sensing in Precision Agriculture

Message from the Guest Editors

Unmanned aerial vehicles (UAV) can fly between way points without a human in the cockpit, drastically reducing the cost of aerial surveillance in precision agriculture. Aerial surveillance data are now available for every type of field operation, from scouting crop yields to detecting emerging pestilence and crop diseases to assessing the impact of floods and natural disasters to tracking livestock. However, farmers need analytic tools to translate data sensed by UAV into actions that will improve agricultural output. These tools must (1) provide robust insights for multiple operations, geographic regions, topological factors, and business models, (2) employ understandable and explainable techniques that build trust, and (3) have practical pathways to real-world use.

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