

Special Issue

New Trends in Agricultural UAV Application

Message from the Guest Editors

UAVs have demonstrated significant advantages in agricultural scenarios such as crop information monitoring, disease and pest detection, and aerial application for pesticide, fertilizer, seed, etc. Still, their application in scenes such as steep mountain slopes and densely planted orchards needs further exploration and improvement. At the same time, the environmental drift caused by spraying also deserves our attention. When considering precision spraying strategies, we must include crop canopy characteristics and disease levels based on remote sensing into the scope of variable spraying decisions. When examining different agricultural production problems, we will use the UAV platform to generate new solutions, model methods, and control strategies, which are the focus of this Issue. In this Special Issue, we encourage exploration and application research on UAVs in various fields of agriculture in different areas, including but not limited to agricultural remote sensing, pesticide spraying, and mechanical system structure innovation, covering remote sensing, plant science, agronomy, and engineering technology. We welcome all manuscript types.

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