

Current Research Objectives

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Research topic: UAV-based research

Primary Research Objective(s): Develop UAV-based tools to: (i) count citrus trees and create a tree inventory; (ii) categorize trees based on canopy size and height; (iii) evaluate tree health status; (iv) early detect citrus diseases (e.g. citrus black spot).

Research Goal: Provide UAV-based tools to citrus growers and researchers to evaluate HLB-infected citrus trees.

Outcomes to date: Currently, we are developing and evaluating the proposed tools utilizing several sensors (e.g. hyperspectral, multispectral and thermal cameras, Lidar system etc.) and artificial intelligence.

Funding source for this objective(s): IFAS new faculty startup funds