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Machine Learning; Urban Farming Operation; Crop Health Monitoring;
Irrigation Optimization; Food Safety

Our group's food-related research focuses on urban farming and controlled-environment agriculture. One direction is early detection of crop stress and disease using AI-enabled monitoring. Another direction is machine-learning-based optimization of cultivation conditions, including sensing, soil-moisture inference, and irrigation management, to improve crop health, yield, and resource efficiency. We also address machine learning-based food safety assessment.

Potential Areas for Collaboration

- Smart Agriculture
 - Early Disease Detection
 - Sensor Development
 - AI for Crop Health Prediction
 - Data-driven Optimization for Controlled-environment Food Production
 - ML-based Food Risk Assessment
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