AgAID Institute

National AI Institute
for Transforming Workforce
& Decision Support

Artificial Intelligence to Support Farm Labor

USDA National Institute of Food and Agriculture
UNITED STATES DEPARTMENT OF AGRICULUTRE

WHO WE ARE

We build and foster human-AI partnerships to sustain specialty-crop agriculture and help feed our growing population. We bring together top researchers from diverse disciplines to empower agriculture professionals with trailblazing AI-tools to assist decision making. Our research can transform the way AI systems are designed and built to solve complex societal problems.

Our **Labor Intelligence Thrust** is developing innovative and inclusive human-AI workflows and improving the efficiency of farm robots and the productivity of farm workers.

HOW WE HELP

Human-Robot Dormant Fruit Tree Pruning

Training machine learning models for pruning based on worker expertise | simulating orchard environments | improving robot sensing and control

Human-Robot Fruit Tree Flower and Blossom Thinning

Improving flower-thinning decision making | developing deep learning models for for flower detection | improving human-robot collaberation and human-AI workflows for thinning

Nut Harvesting

Developing the next generation of intelligent nut harvesting machines | Utilizing cutting-edge sensor technology and AI control systems to optimize tree-nut shaking

Learn more about our work & subscribe
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