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An automated mechanical intra-row weed removal system for vegetable crops

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An automated mechanical intra-row weed removal system for vegetable crops

Abstract

This was the original project description: The goal of this project is to develop a practical mechanical intra-row weed control solution for automatically removing weeds from vegetable crops for small and mid-scale Iowa growers. Investigators will explore an optical sensing system and a mechanism to remove weeds with minimal soil disturbance, crop damage and energy input. The project also will demonstrate the effectiveness and economic viability of the system.

Keywords

Agricultural and Biosystems Engineering, Fruit and vegetables, Weed control alternatives

Disciplines

Bioresource and Agricultural Engineering | Horticulture | Weed Science



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FOR SUSTAINABLE AGRICULTURE

Completed Competitive Grant

An automated mechanical intra-row weed removal system for vegetable crops

Project ID: M2009-23

Abstract

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Lead investigator: Lie Tang, ISU Agricultural and Biosystems Engineering

Year of grant completion: 2014

This competitive grant project was part of the Leopold Center's Marketing Initiative.

Topics: Fruit and vegetables, Weed control alternatives (not GMOs)

RELATED INFORMATION

This investigator has never turned in a final report on research conducted in 2009 and 2010 with \$54,645 of Leopold Center funds. If there are questions about the project, please contact the investigator, lietang@iastate.edu.

[Newsletter article](#) about this project

See continuing work on this project: [M2012-24](#)

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