

Robots Using ROS: ASuBot (Aarhus University and University of Southern Denmark)

By dm on October 27, 2011 3:50 PM | [No Comments](#) | [No TrackBacks](#)

Weeding in organic orchards is a tedious process done either mechanically or by weed burning. Researchers at University of Southern Denmark and Aarhus University created the [ASuBot](#) (Aarhus and Southern Denmark University Robot), a self-driving tractor, to handle navigate around trees in organic orchards. Weeding is done using gas burners that the ASuBot makes sure is not damaging the trees.

ASuBot is built on a Massey Ferguson 38-15 garden tractor outfitted with a SICK laser range finder and [Topcon](#) AES-25 steering. It is able to navigate autonomously without the use of GPS antennas, which would not work under shaded trees and would also make the robot more costly.

The FroboBox, the ASuBot's on-board computer, is a Linux-powered computer running the FroboMind software that runs on top of ROS. FroboMind provides a common, conceptual architecture for field robots and has already been integrated with five different platforms.

For more information about ASuBot and FroboMind, please see [fieldrobot.dk](#).



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