TrimBot2020

 BOSCH

The TrimBot2020 project researches the robotics and vision technologies to prototype the first outdoor garden trimming robot. The robot will navigate over varying terrain, approach rose bushes, hedges and boxwood topiary, to trim them to an ideal shape. The robot will be based on a modified Bosch Indego robot lawnmower, which will navigate using a user-defined garden map and 3D scene analysis, and then visually servo a novel electric plant cutter.

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The Bosch Group is a leading global supplier of technology and services. Its operations are divided into four business sectors: Automotive Technology, Industrial Technology, Consumer Goods, and Energy and Building Technology. Bosch has experience in robotics from research to product, e.g. autonomous lawnmower Indego, agricultural robot BoniRob, production assistant APAS. Relevant for project TrimBot2020 is especially their expertise in system integration and navigation. BOSCH's main contribution in the Trimbot2020 is adaptation of the robot platform, integration of physical components, navigation of robot and leading integration of the demonstrators.

European Commission

www.trimbot2020.org