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參展科別 工程學

作品名稱 **SeedBot: Low-Cost Seeding Robot for
Agricultural Applications**

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國 家 Turkey

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Abstract

This paper presents a semi-autonomous seeding robot which is based on both electrical and mechanical platforms that perform advance agriculture process. SeedBot composed of four components: drilling mechanism, body of robot, seed container and paving mechanism. Other than those components the sensor system and the control system are also discussed. The aim of this study is designing and building a low-cost robotic system to automate and optimize process during farming especially for personal usage. This study demonstrates that semi-autonomous farming has crucial advantages over conventional farming. In addition to that, SeedBot provides safer, requires less manpower and precise farming than usual methods that we have so far.

【評語】 100035

本研究之目的是開發一件小面積自動耕作系統。其作品雖然不複雜，但是整地、播種等各動作均能完成，堪稱是工程上的楷模。