View article SIGN IN

ACCET Karaikudi Prof Elango

Solar based automatic harvesting robot.

Authors A Elango, SS Kumar, R Vijaykumar, M Muthulingaraj, B Rajnivas

Publication date 2018

Journal International Journal for Research in Applied Science and Engineering Technology

Volume 6

Issue 4

Pages 1789-1793

Publisher Indian Institute of Technology

Description In this contradictory world, plethora of paddy harvesting machines are available in the market featuring the manually operated ones to the fully automated machines but the major drawback is none of them finds to be useful for farmers having small fields because of various reasons from their whooping cost and their complexity in operation also the fact that they make the paddy being harvested useless for further sowing, our project eradicates the before said scenario by providing automated harvesting with simple design, our project incorporates a swinging sway arm fixed with cutter which is attached to the autonomously operated vehicle, which senses the presence of the crop in the field and moves accordingly to cut the crop and it is collected by the human after cutting operation is completely over. We are using ultrasonic sensor which is detect the obstacles coming front of the vehicle, PIR sensor used to detect the presence of humans and animals. DC motors are used for motion of the vehicle and servo motor is used for cutting operation. 40T blade is used for cutting operation.