Abstract

Despite the focus on industrialization, agriculture remains a dominant sector of the Indian economy both in terms of contribution to gross domestic product (GDP) as well as a source of employment to millions across the country. Agriculture plays a vital role in the Indian economy. Over 70 per cent of the rural households depend on agriculture as their principal means of livelihood. But an attack of pest in crops is one of the major problems to reduce the production growth in agriculture field. To deal with this kind of problem diagnosis of crop disease is very essential. This paper presents an engineering solution to tackle this kind of problem in which an automatic pesticide sprayer is involved to spray the pesticide to the localized area of the affected crops. This system is based on sprayer filled with pesticides. The Sprayer movement is controlled by DC motor at low velocity, up & down direction according to plant height. The design deals with three modules image capturing, processing and automatic pesticide spraying. The proposed system can remotely operate through any electronic device like mobile, laptop etc.
References

5. A. Guillet, R. Lenain, and B. Thuilot, Off-road Path tracking of a Fleet of WMR with Adaptive and Predictive Control, IEEE Int. Conf. on Intelligent Robots and Systems, (IROS) Tokyo (Japan), 2013

Index Terms

Computer Science Automated Systems

Keywords

Pesticide Sprayer, Robot, DC motor, camera, Laptop, mobile etc.