Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm)
Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm)
RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm)
Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



(http://ipindia.nic.in/index.htm)



Patent Search

Invention Title	EMERGING TRENDS IN DETECTION OF PLANT DISEASES USING IMAGE PROCESSING WITH MACHINE LEARNING
Publication Number	43/2023
Publication Date	27/10/2023
Publication Type	INA
Application Number	202341067015
Application Filing Date	06/10/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	

Inventor

Name	Address	Country
Dr P Saritha	Associate Professor , Department of Civil Engineering ,Malla Reddy Engineering College, Maisammaguda, Gundlapochampally, Medchal-Malkajgiri Dist Secunderabad.	India
Dr.T.SRINIVAS REDDY	Associate Professor, Department of Electronics and Communication Engineering, Malla Reddy Engineering College, Main Campus, Maisammaguda, Gundlapochampally, Medchal-Malkajgiri Dist Secunderabad	India
Dr Shaik Jakeer Hussain	Associate Professor of Institute of Aeronautical Engineering, Dundigal, Hyderabad	India
Mrs D.V.Tanuja	Assistant Professor, Department of Civil Engineering, Malla reddy Engineering college, Maisammaguda, Gundlapochampally, Medchal-Malkajgiri, Secunderabad	India

Applicant

Name	Address	Country
Dr P Saritha	Associate Professor , Department of Civil Engineering ,Malla Reddy Engineering College, Maisammaguda, Gundlapochampally, Medchal-Malkajgiri Dist Secunderabad	India
MALLA REDDY ENGINEERING COLLEGE	MALLA REDDY ENGG. COLLEGE, MAISAMMAGUDA, GUNDLAPOCHAMPALLY, MEDCHAL, MALKAJGIRI DIST., SECUNDRABAD-500100.	India
Dr.T.SRINIVAS REDDY	Associate Professor, Department of Electronics and Communication Engineering, Malla Reddy Engineering College, Main Campus, Maisammaguda, Gundlapochampally, Medchal-Malkajgiri Dist Secunderabad.	India
Dr Shaik Jakeer Hussain	Associate Professor of Institute of Aeronautical Engineering, Dundigal, Hyderabad	India
Mrs D.V.Tanuja	Assistant Professor, Department of Civil Engineering, Malla reddy Engineering college, Maisammaguda, Gundlapochampally, Medchal-Malkajgiri, Secunderabad	India

Abstract:

7. ABSTRACT The automated plant disease detection system presented in this invention plays a crucial role. By combining digital image processing and machine learn system captures images of plant leaves, enhances them, and identifies disease-affected areas with remarkable accuracy. Utilizing classifiers such as Support Vector M Artificial Neural Network, and K-Nearest Neighbors, it distinguishes between healthy and diseased plants, often detecting diseases before they become visible to the This early detection empowers farmers to take prompt corrective measures, ultimately leading to increased crop yield, improved quality of agricultural produce, and sfarming practices. The system's user-friendly interface ensures ease of use for farmers, making it a valuable tool in the quest for enhanced food security and agriculture prosperity.

Complete Specification

Description:4. DESCRIPTION

Technical Field of the Invention

The invention pertains to the application of advanced digital image analysis and classification techniques to address challenges in plant disease identification and management in the agriculture sector.

Background of the Invention

Agriculture plays a pivotal role in sustaining economies and nourishing populations worldwide. In India, where approximately 70% of the population is engaged in agriculture and farming, the health and productivity of crops hold paramount importance. However, a persistent threat to agricultural sustainability is the prevalence plant diseases, predominantly caused by bacteria, fungi, and viruses. These diseases can severely impede crop growth, reduce agricultural yields, and compromise 1 quality of produce, posing significant challenges to food security and economic well-being.

Traditional methods for the detection and identification of plant diseases have predominantly relied on manual labor and visual inspection by experienced agricultu

View Application Status



Terms & conditions (http://ipindia.gov.in/terms-conditions.htm) Privacy Policy (http://ipindia.gov.in/privacy-policy.htm)

Copyright (http://ipindia.gov.in/copyright.htm) Hyperlinking Policy (http://ipindia.gov.in/hyperlinking-policy.htm)

Accessibility (http://ipindia.gov.in/accessibility.htm) Archive (http://ipindia.gov.in/archive.htm) Contact Us (http://ipindia.gov.in/contact-us.htm)

Help (http://ipindia.gov.in/help.htm)

 ${\bf Content\ Owned,\ updated\ and\ maintained\ by\ Intellectual\ Property\ India,\ All\ Rights\ Reserved.}$

Page last updated on: 26/06/2019