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(51) International classification	:G06Q 50/02, G06V 20/10, G16H 50/20, G06T 7/00, G06F 3/0484	(71)Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Uttar Pradesh India
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(57) Abstract :

Disclosed herein is a system (100) for real-time crop disease diagnosis and treatment recommendation that comprises an user interface (102) integrated in a user device (104), the user interface (102) configured to enable a user to capture, upload, and view crop leaf images, an image acquisition module (106) integrated within user interface (102), configured to capture or receive image of crop leaf, a communication network (108) connected to the system (100), configured to transmit data between the several components of the system (100), a processing unit (110) integrated with the system (100), configured to process the received image and generate disease diagnosis and treatment recommendations. The processing unit (110) comprises an input module (112), an image pre-processing module (114), a disease detection module (116), a confidence evaluation module (118), a severity assessment module (120), a crop identification module (122), an advisory optimization module (124), an advisory generation module (126), and an output module (128).

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