

(54) Title of the invention : A SYSTEM FOR DISEASE DETECTION IN PLANTS USING DEEP CONVOLUTIONAL NEURAL NETWORK AND METHOD THEREOF

<p>(51) International classification :G06N0003040000, G16H0050200000, G06K0009620000, G06T0007000000, G06N0003080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Nabeel Ahmad Address of Applicant :Associate Professor & Head, School of Biotechnology, IFTM University Moradabad U.P. India 244102 ----- ----- 2)Dr Arvind Kumar Shukla 3)Dr. Preeti Bala 4)Mr. Rajan Prasad 5)Dr. Abhishek Kumar Mishra 6)Dr. Rakesh Kumar Yadav 7)Mr. Adnan Ahmad 8)Om Prakash Singh Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Nabeel Ahmad Address of Applicant :Associate Professor & Head, School of Biotechnology, IFTM University Moradabad U.P. India 244102 ----- ----- 2)Dr Arvind Kumar Shukla Address of Applicant :Associate Professor, Department of Computer Application,IFTM University, Moradabad U.P. India 244102 ----- ----- 3)Dr. Preeti Bala Address of Applicant :Assistant Professor, Department of Computer Application, SRMIST, Delhi-Meerut Road, Modinagar, U.P. 201204 ----- ----- 4)Mr. Rajan Prasad Address of Applicant :Associate Professor, Department of Computer Science & Engineering, Babu Banarasi Das University, Lucknow-206028, U.P. India ----- ----- 5)Dr. Abhishek Kumar Mishra Address of Applicant :Associate Professor, Department of Computer Science & Engineering , SCS & A, IFTM University, Moradabad UP, India 244102 ----- ----- 6)Dr. Rakesh Kumar Yadav Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, SCS & A, IFTM University, Moradabad UP, India 244102 ----- ----- 7)Mr. Adnan Ahmad Address of Applicant :Assistant Professor, Department Of Bioengineering, Integral University, Lucknow U.P. India 226022 ----- ----- 8)Om Prakash Singh Address of Applicant :Department of Computer Science & Engineering, Dr. K.N. Modi Institute of Engineering and Technology, Modinagr, Ghaziabad, 201204, U.P. India ----- -----</p>
---	---

(57) Abstract :
The present invention discloses a system for disease detection in plant leaves using deep convolutional neural network and method thereof. The present invention is comprised of, but not limited to, a processing unit communicatively coupled with a memory unit for collecting dataset containing various image set of plant leaves. Further, the dataset collected, can contain a plurality of images of plant leaves distributed proportionally among various classes—cedar rust, multiple diseases, and healthy leaves.

No. of Pages : 19 No. of Claims : 4