Patent Search

Invention Title	A DEEP LEARNING-BASED SYSTEM FOR METEOROLOGICAL SATELLITE CLOUD IMAGE OBJECT DETECTION
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Inventor

Name	Address
Dr.P.Srihari	Assistant Professor, Department of Information Technology, GMR Institute of Technology, Rajam, Vizianagaram, Andhra Prac India. Pin Code:532127
Dr.G.Bindu Madhavi	Associate Professor, Department of Computer Science and Engineering, Geethanjali College of Engineering and Technology, Cheeryal(V), Keesara(M), Medchal Dist., Telangana, India. Pin Code:501301
Dr.Sonagiri China Venkateswarlu	Professor of Electronics and Communication Engineering, Institute of Aeronautical Engineering (Autonomous), Dundigal, Me District, Hyderabad, Telangana, India. Pin Code:500043
Dr.Prabhakar Marry	Assistant Professor, Department of IT, Vignan Institute of Technology and Science, Yadadri, Bhuvanagiri, Telangana, India. Pi Code:508284
Mr.N.Raghava Rao	Assistant Professor, Department of Information Technology, Institute of Aeronautical Engineering, Hyderabad, Telangana, In Pin Code:500043
Dr.S.S.Sivaraju	Professor and Head, Department of Electrical and Electronics Engineering, R V S College of Engineering and Technology, Kannampalayam, Sulur, Coimbatore, Tamil Nadu, India. Pin Code: 641402
Dr.J.Umamaheswari	Dean of Computer Science, ADM College for Women, Nagapattinam, Tamil Nadu, India. Pin Code:611001
Mr. Sagar Choudhary	Assistant Professor, Department of Computer Science and Engineering. Roorkee College of Engineering, Roorkee, Uttarakha India. Pin Code:247667
Dr.K.G.S.Venkatesan	Professor, Department of CSE, MEGHA Institute of Engineering and Technology for Women, Edulabad, Hyderabad, Telangan India. Pin Code:501301
Mr.V.Mahidhar Reddy	Assistant Professor, Department of Mechanical Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code:500043

Applicant

Name	Address
Dr.P.Srihari	Assistant Professor, Department of Information Technology, GMR Institute of Technology, Rajam, Vizianagaram, Andhra Prac India. Pin Code:532127
Dr.G.Bindu Madhavi	Associate Professor, Department of Computer Science and Engineering, Geethanjali College of Engineering and Technology, Cheeryal(V), Keesara(M), Medchal Dist., Telangana, India. Pin Code:501301
Dr.Sonagiri China Venkateswarlu	Professor of Electronics and Communication Engineering, Institute of Aeronautical Engineering (Autonomous), Dundigal, Me District, Hyderabad, Telangana, India. Pin Code:500043
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Mr.N.Raghava Rao	Assistant Professor, Department of Information Technology, Institute of Aeronautical Engineering, Hyderabad, Telangana, In Pin Code:500043
Dr.S.S.Sivaraju	Professor and Head, Department of Electrical and Electronics Engineering, R V S College of Engineering and Technology, Kannampalayam, Sulur, Coimbatore, Tamil Nadu, India. Pin Code: 641402
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Mr. Sagar Choudhary	Assistant Professor, Department of Computer Science and Engineering. Roorkee College of Engineering, Roorkee, Uttarakha India. Pin Code:247667
Dr.K.G.S.Venkatesan	Professor, Department of CSE, MEGHA Institute of Engineering and Technology for Women, Edulabad, Hyderabad, Telangan India. Pin Code:501301
Mr.V.Mahidhar Reddy	Assistant Professor, Department of Mechanical Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code:500043

Abstract:

[034] The present invention discloses a deep learning-based system for meteorological satellite cloud image object detection. The system includes, b that enhances the visible cloud image and marginal information, the cloud atlas produced by this method can preserve as much of the infrared infor image as feasible, and further this sort of local variance and weighting-based small echo meteorological satellite cloud picture fusion technique is of described are cloud detection techniques for a particular class of meteorological satellite cloud images, and thundercloud recognition techniques us clusters and satellite cloud images cloud cluster perform initial data transmission for satellite Analysis, projective transformation of the cloud atlas, r segmentation of the cloud atlas picture, and automatic cloud cluster identification at the base. Accompanied Drawing [FIGS. 1-2]

Complete Specification

Description:[001] The present invention relates to the field of devices, systems, methods and techniques for presenting, tracking, reporting, and an meteorological satellite cloud images and combines through local variance and weighting and object detection. The invention more particularly rel based system for meteorological satellite cloud image object detection.

BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Further, the approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been prev pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art r inclusion in this section.

[004] The cloud atlas data that weather satellites collect has become a crucial information source for monitoring and early warning of catastrophic weather. The visible cloud image reflection is the albedo of the storm, and the infrared cloud image reflection is the bright temperature difference two groups of data are image co-registered, which makes use of the merged images to automatically monitor the strong convection cloud cluster a practical implications.

[005] Accordingly, on the basis of aforesaid facts, there remains a need in the prior art to provide a deep learning-based system for meteorological object detection. The proposed system overcomes the problem of conventional and complex techniques, and which have the potential of accelerat

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APPLICANT NAME	1 . Dr.P.Srihari 2 . Dr.G.Bindu Madhavi 3 . Dr.Sonagiri China Venkateswarlu 4 . Dr.Prabhakar Marry 5 . Mr.N.Raghava Rao 6 . Dr.S.S.Sivaraju 7 . Dr.J.Umamaheswari 8 . Mr. Sagar Choudhary 9 . Dr.K.G.S.Venkatesan 10 . Mr.V.Mahidhar Reddy
TITLE OF INVENTION	A DEEP LEARNING-BASED SYSTEM FOR METEOROLOGICAL SATELLITE CLOUD IMAGE OBJECT DETECTION
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E-MAIL (As Per Record)	tumula.githam@gmail.com
ADDITIONAL-EMAIL (As Per Record)	tumula.githam@gmail.com
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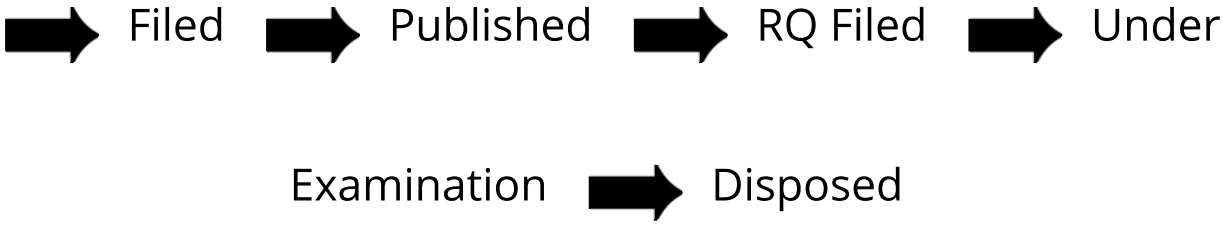

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