



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



(<http://ipindia.nic.in>)

Patent Search

Invention Title	AN ADVANCED IMAGE PROCESSING SYSTEM USING A COMBINATION OF IOT AND CLOUD COMPUTING
Publication Number	27/2023
Publication Date	07/07/2023
Publication Type	INA
Application Number	202311038917
Application Filing Date	06/06/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	G06F 165830, G06T 012000, G16H 302000, H04L 671000, H04N 013200

Inventor

Name	Address	Country
Er.Priyanka Saini	Assistant Professor, Subharti Institute of Technology & Engineering, Meerut, Uttar Pradesh, India. Pin Code:250005	India
Dr.T.Prabhakar	Professor, Department of ECE, GMR Institute of Technology, Rajam, Vizianagaram District, Andhra Pradesh, India. Pin Code:532127	India
Ms.B.Parkavi	Assistant Professor, School of Computer Science and Engineering, Presidency University, Itgalpur, Rajanakunte, Yelahanka, Bengaluru, Karnataka, India. Pin Code:560064	India
Mr.N.Raghava Rao	Assistant Professor, Department of Information Technology, Institute of Aeronautical Engineering, Dundigal, Medchal Malkajgiri District, Hyderabad, Telangana, India. Pin Code:500043	India
Mrs.Earli. Manemma	Assistant Professor, Department of Electronics and Communication Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (A) (NSRIT), Sontyam, Pendurti-Anandapuram Highway, Visakhapatnam, Andhra Pradesh, India. Pin Code:531173	India
Dr.Girdhar Gopal	Assistant Professor, Department of Computer Science, Sanatan Dharma College, Ambala Cantt, Haryana, India. Pin Code:133001	India
Mr.Jeevanbabu Vara	Assistant Professor, Hyderabad Institute of Technology and Management, Gowdavelli Village, Medchal Mandal, Medchal District, Telangana, India. Pin Code:501401	India
Mr.Narayanam Sri Prakash	Assistant Professor, Department of Electronics and Communication Engineering, KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Vatticherukuru Mandal, Guntur District, Andhra Pradesh, India. Pin Code:522017	India
Mrs.D.S.Vanaja	Assistant Professor, Department of ECE, Sri Venkatesa Perumal College of Engineering & Technology, Puttur, Tirupati District, Andhra Pradesh, India. Pin Code:517583	India
Mr.Anandbabu Gopatoti	Department of ECE, Hindusthan College of Engineering & Technology, Coimbatore, Tamil Nadu, India. Pin Code: 641032	India

Applicant

Name	Address	Country
Er.Priyanka Saini	Assistant Professor, Subharti Institute of Technology & Engineering, Meerut, Uttar Pradesh, India. Pin Code:250005	India
Dr.T.Prabhakar	Professor, Department of ECE, GMR Institute of Technology, Rajam, Vizianagaram District, Andhra Pradesh, India. Pin Code:532127	India
Ms.B.Parkavi	Assistant Professor, School of Computer Science and Engineering, Presidency University, Itgalpur, Rajanakunte, Yelahanka, Bengaluru, Karnataka, India. Pin Code:560064	India
Mr.N.Raghava Rao	Assistant Professor, Department of Information Technology, Institute of Aeronautical Engineering, Dundigal, Medchal Malkajgiri District, Hyderabad, Telangana, India. Pin Code:500043	India
Mrs.Earli. Manemmma	Assistant Professor, Department of Electronics and Communication Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (A) (NSRIT), Sontyam, Pendurti-Anandapuram Highway, Visakhapatnam, Andhra Pradesh, India. Pin Code:531173	India
Dr.Girdhar Gopal	Assistant Professor, Department of Computer Science, Sanatan Dharma College, Ambala Cantt, Haryana, India. Pin Code:133001	India
Mr.Jeevanbabu Vara	Assistant Professor, Hyderabad Institute of Technology and Management, Gowdavelli Village, Medchal Mandal, Medchal District, Telangana, India. Pin Code:501401	India
Mr.Narayanam Sri Prakash	Assistant Professor, Department of Electronics and Communication Engineering, KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Vatticherukuru Mandal, Guntur District, Andhra Pradesh, India. Pin Code:522017	India
Mrs.D.S.Vanaja	Assistant Professor, Department of ECE, Sri Venkatesa Perumal College of Engineering & Technology, Puttur, Tirupati Dist, Andhra Pradesh, India. Pin Code:517583	India
Mr.Anandbabu Gopatoti	Department of ECE, Hindusthan College of Engineering & Technology, Coimbatore, Tamil Nadu, India. Pin Code: 641032	India

Abstract:

The proposed invention introduces an advanced image processing system that combines Internet of Things (IoT) devices and cloud computing infrastructure to enable image analysis and processing. The system utilizes interconnected IoT devices, including cameras and sensors, to capture image data, which is transmitted to the cloud infrastructure for immediate processing and analysis. Leveraging the scalability and computational power of cloud computing, the system employs advanced image processing algorithms and machine learning techniques to extract valuable insights from the captured images. Real-time data acquisition ensures prompt analysis and decision-making while the cloud infrastructure provides storage capabilities for archiving and retrieval of processed images. The system finds applications in various domains, such as medical diagnosis and industrial automation, enabling real-time diagnosis, treatment planning, quality control, and process optimization. The proposed invention represents a significant advancement in image processing, offering seamless integration of IoT devices and cloud computing to unlock the full potential of real-time image analysis for improving manufacturing and innovation. Accompanied Drawing [FIGS. 1-2]

Complete Specification

Description:[001] The field of invention for the proposed system, which utilizes a combination of Internet of Things (IoT) and cloud computing for advanced image processing, lies within the realm of Information Technology and Computer Science.

[002] This invention involves the development of a cutting-edge image processing system that harnesses the power of IoT and cloud computing technologies. The system integrates a network of interconnected devices, sensors, and cloud infrastructure to facilitate efficient and sophisticated image processing tasks.

BACKGROUND OF THE INVENTION

[003] In recent years, there has been a significant increase in the generation and availability of image data from various sources, such as surveillance cameras, drone medical imaging devices, and smart devices. The processing and analysis of these images play a crucial role in extracting valuable information, enabling decision-making and providing insights in numerous fields, including healthcare, surveillance, agriculture, and industrial automation. However, the volume, complexity, and real-time requirements of image processing tasks pose challenges that traditional computing approaches struggle to address efficiently.

[004] The proposed invention aims to address these challenges by introducing an advanced image processing system that leverages the combined power of Internet of Things (IoT) and cloud computing technologies. IoT refers to the interconnection of physical devices embedded with sensors, actuators, and communication capabilities, allowing them to collect and exchange data over the internet. Cloud computing, on the other hand, provides scalable and on-demand access to a shared pool of computational resources and services delivered via the internet.

[005] The integration of IoT and cloud computing in the proposed system offers several advantages. First, IoT devices, such as cameras and sensors, can capture images in real-time from various sources and transmit them to the cloud infrastructure. This real-time data acquisition enables immediate analysis and decision-making, facilitating

[View Application Status](#)



**Department of Industrial
Policy and Promotion**
Government of India

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>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019