

(54) Title of the invention : AN ADVANCED IMAGE PROCESSING SYSTEM USING A COMBINATION OF IOT AND CLOUD COMPUTING

(51) International classification	:G06F 165830, G06T 012000, G16H 302000, H04L 671000, H04N 013200
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

**1)Er.Priyanka Saini**  
Address of Applicant :Assistant Professor, Subharti Institute of Technology & Engineering, Meerut, Uttar Pradesh, India. Pin Code:250005 -----

**2)Dr.T.Prabhakar**

**3)Ms.B.Parkavi**

**4)Mr.N.Raghava Rao**

**5)Mrs.Earli. Manemma**

**6)Dr.Girdhar Gopal**

**7)Mr.Jeevanbabu Vara**

**8)Mr.Narayanam Sri Prakash**

**9)Mrs.D.S.Vanaja**

**10)Mr.Anandbabu Gopatoti**

Name of Applicant : NA  
Address of Applicant : NA

(72)Name of Inventor :

**1)Er.Priyanka Saini**  
Address of Applicant :Assistant Professor, Subharti Institute of Technology & Engineering, Meerut, Uttar Pradesh, India. Pin Code:250005 -----

**2)Dr.T.Prabhakar**  
Address of Applicant :Professor, Department of ECE, GMR Institute of Technology, Rajam, Vizianagaram District, Andhra Pradesh, India. Pin Code:532127 -----

**3)Ms.B.Parkavi**  
Address of Applicant :Assistant Professor, School of Computer Science and Engineering, Presidency University, Itgalpur, Rajanakunte, Yelahanka, Bengaluru, Karnataka, India. Pin Code:560064 -----

**4)Mr.N.Raghava Rao**  
Address of Applicant :Assistant Professor, Department of Information Technology, Institute of Aeronautical Engineering, Dundigal, Medchal Malkajgiri District, Hyderabad, Telangana, India. Pin Code:500043 -----

**5)Mrs.Earli. Manemma**  
Address of Applicant :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 -----

**6)Dr.Girdhar Gopal**  
Address of Applicant :Assistant Professor, Department of Computer Science, Sanatan Dharma College, Ambala Cantt, Haryana, India. Pin Code:133001 -----

**7)Mr.Jeevanbabu Vara**  
Address of Applicant :Assistant Professor, Hyderabad Institute of Technology and Management, Gowdavelli Village, Medchal Mandal, Medchal District, Telangana, India. Pin Code:501401 -----

**8)Mr.Narayanam Sri Prakash**  
Address of Applicant :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 -----

**9)Mrs.D.S.Vanaja**  
Address of Applicant :Assistant Professor, Department of ECE, Sri Venkatesa Perumal College of Engineering & Technology, Puttur, Tirupati Dist, Andhra Pradesh, India. Pin Code:517583 -----

**10)Mr.Anandbabu Gopatoti**  
Address of Applicant :Department of ECE, Hindusthan College of Engineering & Technology, Coimbatore, Tamil Nadu, India. Pin Code: 641032 -----

(57) Abstract :

The proposed invention introduces an advanced image processing system that combines Internet of Things (IoT) devices and cloud computing infrastructure to enable real-time 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 healthcare 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 improved decision-making and innovation. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 24 No. of Claims : 10