

2. Provide Link for Additional information

This document is attested from pages 1 to 31

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.L.P.E., M.O.S.I.M.C.I.I.,
PRINCIPAL
Rajiy Gandhi College of Engineering & Technology
Pondy - Cuddalore Main Road,
Kirumampakkam, Puducherry - 607 402.



CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102237

The Commissioner of Patents has granted the above patent on 2 June 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

I. D. Soubache of Rajiv Gandhi College Of Engineering and, Technology Pondy Cuddalore, East Coast Road Kirumampakkam Puducherry 607403 India

Vaddi Ramesh of Associate Professor & Dean -Research, and Development, Department of Electrical, & Electronics Engineering & Management Golden Valley Integrated Campus Madanapalle, Andhra Pradesh 517325 India

Rajesh Thipparaju of Assistant Professor, Electrical and Electronics Engineering, JB institute of Engineering & Technology Moinabad, Ranga reddy Telangana 500075 India

Rajasekhar Gorthi of Assistant Professor, Electrical and Electronics Engineering, J.B.Institute of Engineering & Technology Moinabad, Ranaga reddy Telangana 500075 India

- S Vijayaraj of Department of Electrical and Electronics, Engineering, Vels Institute of Science, Technology and Advanced Studies Chennai Tamil Nadu India
- G. Sridhar of HOD & Associate Professor, Electrical Electronics Engineering, Jyothishmathi Institute of Technology and Science. Nustulapur Karimnagar 505481 India
- N. Prem Sai of Dept of Mechanical Engg, Sree vidyanikethan Engg College (A) Tirupati Andhra Pradesh 517102 India

T CH Anil Kumar of Assistant Professor, VFSTR (Deemed To Be University) Vadlamudi Andhra Pradesh India

Arif Ali Rehman of Instructor, Yanbu Industrial College Yanbu Western Region Saudi Arabia

Reema Jain of Associate Professor (Senior), Manipal University Jaipur, Dehmi Kalan, Off Jaipur-Ajmer Expressway Jaipur Rajasthan 303007 India

Title of invention:

REAL TIME EARLY FAULT PREDICTION OF SWITCHED RELUCTANT MOTORS FOR AUTOMOTIVE APPLICATIONS

Name of inventor(s):

Soubache, I. D.; Ramesh, Vaddi; Thipparaju, Rajesh; Gorthi, Rajasekhar; Vijayaraj, S; Sridhar, G.; Sai, N. Prem; Kumar, T. CH Anil; Rehman, Arif Ali and Jain, Reema

Term of Patent:

Eight years from 29 April 2021



Dr. E. VIJAYAKRISHNA RAPAKA

B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I., PRINCIPAL

Rajiv Gandhi College of Engineering & Technology Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 402. Dated this 2nd day of June 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102237

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



J. AUSTRALIA

Dated this 2nd day of June 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A)

Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128

Application for relief from unjustified threats

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
 - (a) a declaration that the threats are unjustifiable; and
 - (b) an injunction against the continuance of the threats; and
 - (c) the recovery of any damages sustained by the applicant as a result of the threats.
 - (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A

Threats related to an innovation patent application or innovation patent and courts power to grant relief.

Certain threats of infringement proceedings are always unjustifiable.

(1) If:

- (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
- (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be; then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1

Dictionary

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL



CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021103997

The Commissioner of Patents has granted the above patent on 25 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Sarath Chandiran. I of Principal, School of Pharmacy, Sri, Balaji Vidyapeeth Deemed to beUniversity SBV Campus, Pillaiyarkuppam Pondicherry 607402 India

Mukta Sharma of Professor, Department of Microbiology, Shree Bankey Bihari Dental College NH-24, near masuri canal Ghaziabad Uttar Pradesh 201302 India

I. D. Soubache of Rajiv Gandhi College Of Engineering&Tech, Pondy Cuddalore, East Coast Road Kirumampakkam Puducherry 607403 India

Yerram Sneha of Research Scholar, Department of Computer, and Engineering, KL University Hyderabad Telangana 500075 India

- P. Bindu of Assistant Professor, Department of Mathematics Koneru Lakshmalah Education Foundation, Greenfields, Vaddeswaram, Guntur(A.P.) 522502 India
- S.G. Raman of Associate Professor, Department of, Pharmaceutical Chemistry, School of Pharmacy Sri Balaji Vidyapeeth Deemed to be University, Puducherry 607402 India

Adarsh Mangal of Department of Mathematics, Engineering College Ajmer NH-8 Near Nareli Jain Temple Badliya Circle Ajmer 305025 India

S. Padmanayaki of College of Computer Science and, Information Technology, Jazan University Jazan Kingdom of Saudi Arabia 45142 Saudi Arabia

Sumanta Bhattacharya of Research Scholar, MaulanaAbdulKalam Azad, University of Technology, BF block, Sector1 Bidhannagar, Kolkata West Bengal 700064 India

Ashim Bora of Associate Professor and Head, Department of Mathematics Diphu Government College Assam 782462 India

Chandra Kumar Dixit of Professor and head department of physics, Dean Faculty of science and technology Dr Shakuntala Misra National Rehabilita tion University Lucknow UP 226017 India

B Venkata Swamy of Associate professorDepartmentofChemistry, B V Raju Institute of Technology Narsapur Telangana 502313 India

Title of invention:

ARTIFICIAL NEURAL NETWORK BASED BRAIN DISORDER DIAGNOSTIC SYSTEM

Name of inventor(s):

Chandiran, I, Sarath; Sharma, Mukta; Soubache, I. D.; Sneha, Yerram; Bindu, P.; Raman, S.G.; Mangal, Adarsh; Padmanayaki, S.; Bhattacharya, Sumanta; Bora, Ashim; Dixit, Chandra Kumar and Swamy, B Venkata

Term of Patent:



Dr. E. VIJAYAKRISHNA RAPAKA Dr. E. VIJAYAKRISHNA A. (IIT Madras)
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
Dated this 25th day of August 2021

Rajiv Gandhi College of Engineering & Technology PRINCIPAL Pondy - Guddalore Main Road, Kirumampakkam, Puducherry - 607 402.

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021103997

Eight years from 9 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dr. E. VIJAYAKRISHNA RAPAKA B.Tesh. (Mech.), M.Tech. (Energy), Ph.D. (HT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I.M.C.I.I., PRINCIPAL

Rajiv Gandhi College of Engineering & Technology Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 402: Dated this 25th day of August 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A)

Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128

Application for relief from unjustified threats

- Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
 - (a) a declaration that the threats are unjustifiable; and
 - (b) an injunction against the continuance of the threats; and
 - (c) the recovery of any damages sustained by the applicant as a result of the threats.
- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A

Threats related to an innovation patent application or innovation patent and courts power to grant relief.

Certain threats of infringement proceedings are always unjustifiable.

(1) If:

- (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
- (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be; then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1

Dictionary

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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



Patent Search

Counti
ndia India
India
Vest, India
nil Nadu India
y India
India
India
India
India
Countr uda India
erabad India
College India
2, Avadi- India
Road, India
dia India
dia India al India

Dr. Anupama Patil

#55, Madhav Baug Row House Ugat Bhesan Road Jahangrabad, Surat Gujarat India 395005 Andia

Renewable energy is the need of the current era especially solar power generation is demanded by smart communities for its management. Internet of Things (IoT) p significant role for developing internet technology for optimization of tools or equipments. In this invention, we develop a smart system for smart management of sn utilizing IoT based solar cell tracker which can be controlled through mobile application. Data collected from the system can be accessed from remote locations through of Internet network. Proposed solar cell tracker system is able to provide optimized performance by the usage of DHT11 sensor, LDR sensor, MPU6050 sensor and νε All these sensors are connected through Arduino and hence Thinger.lo webpage is utilized to view the real time data using mini LCD and Raspberry. IoT allows huma easily with the proposed system as it is connected via internet network. App inventor is utilized for building the control system hence the system can be controlled the cellular phone from remote locate. Wi-Fi connection to the system is provided by the ESP8266 NODE MCU microcontroller. This system with dual axis sun tracker bui LDRs is able to produce an average voltage of 13.8 Volt during rainy weather, 18.06 Volt during cloudy weather and 19.40 during sunny weather.

Complete Specification

Claims: 1. Solar power generation is optimized by the usage of AppInventor and Thingerlo which maximizes device performance.

- 2. Dual axis sun tracker device are built using 4 LDRs for producing produce an average voltage of 13.8 Volt during rainy weather, 18.06 Volt during cloudy weather 19.40 during sunny weather.
- 3. Temperature influences solar power generation which in turn depends on intensity of sunlight.
- 4. Adsorption of sunlight is maximized by usage of three axes namely x axis, y axis and z axis for operating automatic sunlight tracker.
- 5. Availability of power is continuous for management of smart cities even during conventional power shutdowns.
- 6. Arduino and Raspberry pi together operate using Internet to remote access of data and remote control of devices. , Description:Working principle of this inventio involves photovoltaic modules and batteries working together providing break-less electrical energy to the load.
- ? During the day generation of electrical energy is directly from photovoltaic module while energy usage at night is through battery for smart cities.
- ? Battery control unit acts as a regulator, such that once the system is turned on, solar parts tracking system is initiated once after the initialization process and the microcontroller enters into active mode.
- ? IoT based controlling is done for the panel position via mobile Apps from remote locations such that solar panel is able to absorb optimal sunlight based on the a adjustment of its position for absorbing sunlight.
- ? The controller is built using the Applnventor platform which is activated by logging in at http://ai2.appinventor.mit.edu. The control is based on mobile apps when engineers need to enter their ID and Password to be active in the system such that user is able to control from any location

View Application Status



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

Dr. E. VIJAYAKRISHNA RAPAKA B.Tech. (Mech.), M.Tech.(Energy), Ph.D (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S., M.C.I.I. PRINCIPAL

Home (http://ipindla.nic.in/index.htm) About Us (http://ipindla.nic.in/about-us.htm) Who's Who (http://ipindla.nic.in/whos-who-page.htm)
Policy & Programs (http://ipindla.nic.in/policy-pages.htm) Achievements (http://ipindla.nic.in/achievements-page.htm)
RTI (http://ipindla.nic.in/right-to-information.htm) Feedback (https://ipindlaonline.gov.in/feedback) Sitemap (shttp://ipindla.nic.in/itemap.htm)
Contact Us (http://ipindla.nic.in/contact-us.htm) Help Line (http://ipindla.nic.in/helpline-page.htm)



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



Patent Search

DEEP LEARNING BASED ENERGY SMART ENVIRONMENT FOR IOT ECOSYSTEMS OF SMART CITIES
37/2020
11/09/2020
INA
202041037757
01/09/2020
COMPUTER SCIENCE
G06N0020000000, G06N0003080000, G06N0007000000, G06N0003040000, G01C0021200000

Inventor

Name	Address	Countr
Dr. M. Deivakani	PSNA College of Engineering and Technology, Kothandaraman Nagar, Dindigul, Tamilnadu, India-624622	India
Dr.M.Bindhu	55/2 Jamal shredian Manor -6g, Arcot Road, Saligramam, Chennai, Tamilnadu, India-600093.	India
Dr.S.Asha	120, Thirunandavanam 1st Street, Sri Balaji Nagar, Pattabiram, Chennai, Tamilnadu, India-600072	India
Reddy Shiva Shankar	SRKR Engineering College, Chinnaamiram, Bhimavaram, West Godavari District, Andhrapradesh, India-534204	India
Dr.Kathirvel Chinnasamy	Sri Ramakrishna Engineering College, Vattamalaipalayam, NGGO Colony + Post, Coimbatore, Tamilnadu, India-641022.	India
Dr. I. D. Soubache	Rajiv Gandhi College Of Engineering And Technology, Pondy Cuddalore, East Coast Road, Kirumampakkam, Puducherry, India-607403.	India
Lalit Walia	B-56, 3rd Floor, Golf View Apartment, Saket, New Delhi, India-110017.	India
P Sriram Kumar	Gokaraju Rangaraju Institute of Engineering & Technology, Nizampet Road, Bachupally, Hyderabad, Telangana, India-500090.	India

Applicant

Name	Address	Countr
Dr. M. Deivakani	PSNA College of Engineering and Technology, Kothandaraman Nagar, Dindigul, Tamilnadu, India-624622	India
Dr.M.Bindhu	55/2 Jamal shredian Manor -6g, Arcot Road, Saligramam, Chennai, Tamilnadu, India-600093.	India
Dr.S.Asha	120, Thirunandavanam 1st Street, Sri Balaji Nagar, Pattabiram, Chennai, Tamilnadu, India-600072	India
Reddy Shiva Shankar	SRKR Engineering College, Chinnaamiram, Bhimavaram, West Godavari District, Andhrapradesh, India-534204	India
Dr.Kathirvel Chinnasamy	Sri Ramakrishna Engineering College, Vattamalaipalayam, NGGO Colony + Post, Coimbatore, Tamilnadu, India-641022.	India
Dr. I. D. Soubache	Rajiv Gandhi College Of Engineering And Technology, Pondy Cuddalore, East Coast Road, Kirumampakkam, Puducherry, India-607403.	India
Lalit Walia	B-56, 3rd Floor, Golf View Apartment, Saket, New Delhi, India-110017.	India
P Sriram Kumar	Gokaraju Rangaraju Institute of Engineering & Technology, Nizampet Road, Bachupally, Hyderabad, Telangana, India-500090.	India

Abstract:

Significant feature of smart cities is the ecosystem with smart services using Internet of Things (IoT) which is the backbone of these intelligent services improved by the collected from sensory network. But it is not feasible to provide huge amount of training data hence incorporation of unlabeled data has to be considered in these sr. In the current era, great success is gained by Deep reinforcement learning (DRL) technique in various domains as it can be utilized in smart city scenarios and IoT whi partially labeled auto generated data from the feedback of users for training purpose. This invention proposes a semi supervised learning model of deep reinforcem technique which accepts both labeled data and unlabeled data that can fit for the applications of smart cities improving the performance of the learning agent along accuracy. Optimal policies are generalized by utilizing the model of variational autoencoders acting as inference engine. Smart buildings are focused with the application proposed model for indoor localization based on signal strength of BLE. Major component of smart cities is indoor localization as people tent to the lateral considered in this invention.

Data Consider Internation

Data Consider Internation

Tach (Energy), Ph.D. (IIT Madaras)**

Data Consider Internation

**Da

B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.G.I.I.,
PRINCIPAL
Rajiv Gandhi College of Engineering & Technology
Pondy - Cuddalore Main Road,
Kirumampakkam, Puducherry - 607 402

Intellectual Property India

- Claims:1. Smart services of smart city are implemented using semi supervised deep reinforcement learning as a mechanism to support these services. Claims: 1. Smart services or smart city are implemented using semi supervised deep reintorcement learning as a mechanism to significant of the services of the 3. Learning approach of semi-supervised reinforcement is extended for utilizing in deep reinforcement learning. 5. Learning approach of semi-supervised reminorcement is extended for utilizing in deep reminorcement.

 4. Best policies are learnt by taking optimal actions by the network of deep variational autoencoder.
- 4. Best policies are learnt by taking optimal actions by the network or deep variational autoencoder.

 5. System of indoor localization is focused in this invention for generalizing the policy of positioning of the configuration. 5. System or indoor localization is focused in this invention for generalizing the policy of positioning of the configuration.
 6. Better results are obtained for smart services of smart cities with increased accuracy of localization using semi-supervised model., Description:? Smart city environments of positions indicated by row.
- number and column number where each of the position is associated with a
- set of RSSI values from the deployment of iBeacons.
- ? Environment is observed by the agent by receiving the RSSI values every time, where the agent takes the action based on recent three observations of RSSI, where the agent chooses one of the 8 actions to move in various
- directions based on which agent receives positive reward or negative reward based on the proximity of the right point. Position of the device is annoximated by the agent by receiving RSSI

View Application Status



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/privacy-policy.htm) Copyright (http://ipindia.gov.in/copyright.htm) Hyperiinking Policy (http://ipindia.gov.in/nyperiinking-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) Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019

Dr. E. VIJAYAKRISHNA RAPAKA B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.L.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,

PRINCIPAL

Home (http://ipindla.nic.in/index.htm) About Us (http://ipindla.nic.in/about-us.htm) Who's Who (http://ipindla.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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



Patent Search

		Patent Search				
Invention Title	ENCRYPTION BASED SECURITY SOLUTION FOR DATA COMMUNICATION OF IOT DEVICES					
Publication Number	36/2020					
Publication Date	04/09/2020					
Publication Type	INA					
Application Number	202041034520					
Application Filing Date	11/08/2020					
Priority Number	**************************************					
Priority Country						
Priority Date			***************************************			
Field Of Invention	COMMUNICATION		************************			
Classification (IPC)	H04L0029080000, H04L0029	060000, H04W0004700000, G06F0021620000, G06F0009540000	······································			
Inventor			*******************			
Name		Address				
Dr. Dharmaiah Devarapalli, Sh	nri Vishnu Engineering	Shri Vishnu Engineering College For Women (Autonomous) Vishnupur Bhimavaram Andhra	Count			
College For Women (Autonom		Pradesh India 534202				
Dr.B.Deevena Raju, IcfaiTech, I	IFHE	lcfaiTech, IFHE Donthanapally, Sankarapally Road Hyderabad Telangana India 501203	India			
S Mohan babu Chowdary, Sir (Engineering	C R Reddy College of	Sir C R Reddy College of Engineering Post Peddapadu Mandal Eluru Andhra Pradesh India 534007	India			
Madhu Bandari, IcfaiTech, IFH	E	IcfaiTech, IFHE Donthanapally, Sankarapally Road Hyderabad Telangana India 501203	India			
Dr. Velmurugan J, Sri Venkateswara College of Engineering and Technology		Sri Venkateswara College of Engineering and Technology RVS Nagar Chittoor Andhra Pradesh India 517127	India			
Dr. I. D. Soubache, Rajiv Gandhi College Of Engineering And Technology		Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India			
Pramod Madhavrao Kanjalkar		Flat no. 201 Arvind Apartment, Swaroop Colony, Anandnagar Pune Maharashtra India 411051	India			
Asisa Kumar Panigrahy, Gokaraju Rangaraju Institute of Engineering & Technology		Gokaraju Rangaraju Institute of Engineering & Technology Nizampet Road, Bachupally, Hyderabad Telangana India 500090	India			
S. Baba Fariddin, St. Mary's Womens Engineering College		St. Mary's Womens Engineering College Guntur-Ponnur Road, Budampadu Post, Guntur Andhra Pradesh India 522017	India			
Applicant						
Name		Address	Count			
Dr. Dharmaiah Devarapalli, Sh College For Women (Autonom		Shri Vishnu Engineering College For Women (Autonomous) Vishnupur Bhimavaram Andhra Pradesh India 534202	India			
Dr.B.Deevena Raju, IcfaiTech, I		IcfalTech, IFHE Donthanapally, Sankarapally Road Hyderabad Telangana India 501203	India			
S Mohan babu Chowdary, Sir C Engineering	CR Reddy College of	Sir C R Reddy College of Engineering Post Peddapadu Mandal Eluru Andhra Pradesh India 534007	India			
Madhu Bandari, IcfaiTech, IFHE	E	IcfaiTech, IFHE Donthanapally, Sankarapally Road Hyderabad Telangana India 501203	India			
Dr. Velmurugan J, Sri Venkateswara College of Engineering and Technology		Sri Venkateswara College of Engineering and Technology RVS Nagar Chittoor Andhra Pradesh India 517127	India			
Dr. I. D. Soubache, Rajiv Gandh And Technology	ni College Of Engineering	Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India			
Pramod Madhavrao Kanjalkar		Flat no. 201 Arvind Apartment, Swaroop Colony, Anandnagar Pune Maharashtra India 411051	India			
Asisa Kumar Panigrahy, Gokara Engineering & Technology	aju Rangaraju Institute of	Gokaraju Rangaraju Institute of Engineering & Technology Nizampet Road Bachupally, Hyderabad Telangana India 500090	India			
S. Baba Fariddin, St. Mary's Wo	omens Engineering College	St. Mary's Womens Engineering College Guntur-Ponnur Road Budampadu Post, Guntur Andhra Pradesh India 522017 Dr. E. VIJAYAKRISHNA RA B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (III)	India PAKA			

https://iprsearch.ipindia.gov.in/PublicSearch/PublicationSearch/PatentDetails

B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I., PRINCIPAL 1/2

Rajiv Gandhi College of Engineering & Jechnology Pondy - Cuddalore Main Road, Puduci arry 607 402.

Modern era is conquered by the fairly disruptive technology of Internet of Things (IoT) which has unimaginable capability, growth and impact. Devices using this technology are demands incredible security and data privacy as same cloud connects several devices; hence there is possibility of data leakage. This invention presents the impleme Representational State Transfer (REST) Application Programming Interface for IoT devices based on the concepts used in IoT technology which keeps record of events devices along with count of everything. These devices are connected to the cloud server utilizing the concept of middleware. But new applications using IoT in the clous security threats for data privacy. Hence there is requirement of innovative system for securing innovative IoT devices which avoids hackers from entering the networl devices along with securing transit of data into the cloud from the IoT devices. This invention provides the method of securing IoT devices connected to cloud and use exposing them using REST API. Device data is primarily exposed using middleware via REST thereby hiding details acting as an interface between sensor data and the

Complete Specification

Claims:1. End to end security is provided by the proposed middleware architecture for the users uploading data collected by sensors.

- 2. Data in transit is secured by this approach via end to end encryption technique.
- 3. All constraints of IoT system for data communication are considered in this middleware architecture.
- 4. Exchange of data and communication is done by utilizing Representational State Transfer (REST) Application Programming Interface (API).
- 5. Development of IoT devices is assisted successfully by the proposed middleware by exposing REST API.
- 6. Interface is provided for registration of IoT devices by the users for secured data accessing collected by IoT devices., Description:? This invention proposes a secu framework for IoT devices ensuring end to end security for IoT applications involving these IoT devices.
- ? IoT system security can be evaluated by analysis of each component integrated together to form the system.
- ? IoT devices are not directly connected to the internet and are kept isolated having no interaction with the real world but connected to a gateway which acts as an in between connecting the IoT devices to the internet requiring authentication for accessing.
- ? This gateway does not require any inbound ports and these gateway devices remain hidden behind the firewalls in multiple layers in enterprise, hence there is no possibility for any attackers to comprise the IoT devices for hacking their private data.
- ? IoT gateway is acting as an intermediate layer between the middleware and IoT devices such that these devices can access internet only through gateway via authentication.
- 2. In turn REST APLis called by enabling gateway by which all the information can be exchanged in a secured way

View Application Status



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

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech: (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm)
Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm)
RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm)
Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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



Patent Search

	Patent Search			
Invention Title	AN AUTOMATED AND INTEGRATED MOBILE APP FOR HANDLING ROAD ACCIDENT AND EMERGENCY SITUATION SMARTLY			
Publication Number	olication Number 41/2020			
Publication Date 09/10/2020				
Publication Type	INA			
Application Number	202041041120			
Application Filing Date	23/09/2020			
Priority Number				
Priority Country				
Priority Date				
Field Of Invention	ELECTRICAL			
Classification (IPC)	B60Q1/30	(10000000000000000000000000000000000000		
Inventor				
Name	Address	Countr		
S.Deivasigamani	Senior Lecturer, Faculty of Engineering and Computer Technology, AIMST University, 08100 Jalan Semeling-Bedong, Kedah Darul Aman, Malaysia. +60103735611 deivasigamani@aimst.edu.my	India		
Dr.B.Annapurna	Associate Professor Department of Computer Science Engineering, Aditya College of Engineering, Aditya Nagar, ADB Road, E.G.Dist, Surampalem-533437. 9440896722 annapurnagandrety@gmail.com			
Raushan Kumar Singh	Technical Director, Innovation Development, Spectrum Solutions, 1st Floor, SBI Bank, Ariyankuppam, Pondicherry -07. 9380474850 td@spectrumultra.com			
Dr.G.Devadasu	Professor& Head of The Department, Department of Electrical & Electronics Engineering, CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad-501401. 9885286162 gdevadas 10@gmail.com			
Dr.S.Vijayalakshmi	Professor, School of Computing Science and Engineering, Galgotias University Plot No.2, Sector 17-A Yamuna Expressway, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh, India 203 201. 990353845 svijisuji@gmail.com			
Dr.C.Thanavathi	Assistant Professor, Departement of History, V.O.C.College of Education, Thoothukudi-628008. 9629256771 cthanavathi.tuty@gmail.com			
Dr.UdaraYedukondalu	Associate Professor, Department of Electronics and Communication Engineering Sri Vasavi Engineering College, Pedatadepalli, Tadepalligudem-534101, West Godavari District, Andhra Pradesh. 9849437940,8008465666, drykudara@gmail.com	India		
Dr. I. D. Soubache	Associate Professor, Department of Biomedical Engineering, Rajiv Gandhi College of Engineering & Technology PondyCuddalore, East Coast Road, Kirumampakkam, Puducherry- 607403. 9626300600 idsoubache@gmail.com			
Dr. H. Sudheer	Assistant Professor, Department of Electrical and Electronics Engineering, ICFAITech (Faculty of Science and Technology), IFHE Campus, Donthanapally, Shankarapalli Road, Hyderabad - 501203, Telangana. 9949119906 sudheer_hraj@yahoo.co.in			
Dr. Capt. K. Sujatha	Professor & Head of Department, Department of Mathematics, St. Joseph's College for Women (Autonomous), Gnanapuram. Near Convert Junction, Visakhapatnam-530004. 9885480568 sujatha@stjosephsvizag.com			
Er. S. John Pimo	Assistant Professor, Department of Computer Science and Engineering, St.Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil, Kanyakumari District, Tamil Nadu – 629 003. 9843257505 Johnpimo@gmail.com			

Applicant

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL

Intellectual Property India

Name	Address	Countr
S.Deivasigamani	Senior Lecturer, Faculty of Engineering and Computer Technology, AIMST University, 08100 Jalan Semeling-Bedong, Kedah Darul Aman, Malaysia. +60103735611 deivasigamani@aimst.edu.my	India
Dr.B.Annapurna	Associate Professor Department of Computer Science Engineering, Aditya College of Engineering, Aditya Nagar, ADB Road, E.G.Dist, Surampalem-533437. 9440896722 annapurnagandrety@gmail.com	India
Raushan Kumar Singh	Technical Director, Innovation Development, Spectrum Solutions, 1st Floor, SBI Bank, Ariyankuppam, Pondicherry -07. 9380474850 td@spectrumultra.com	India
Dr.G.Devadasu	Professor& Head of The Department, Department of Electrical & Electronics Engineering, CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad-501401. 9885286162 gdevadas 10@gmail.com	India
Dr.S.Vijayalakshmi	Professor, School of Computing Science and Engineering, Galgotias University Plot No.2, Sector 17-A Yamuna Expressway, Greater Noida, Gautam Buddh Nagar, Uttar Pradesh, India 203 201. 990353845 svijisuji@gmail.com	
Dr.C.Thanavathi	Assistant Professor, Departement of History, V.O.C.College of Education, Thoothukudi-628008. 9629256771 cthanavathi.tuty@gmail.com	
Dr.UdaraYedukondalu	Associate Professor, Department of Electronics and Communication Engineering Sri Vasavi Engineering College, Pedatadepalli, Tadepalligudem-534101, West Godavari District, Andhra Pradesh. 9849437940,8008465666, drykudara@gmail.com	India
Dr. I. D. Soubache	Associate Professor, Department of Biomedical Engineering, Rajiv Gandhi College of Engineering & Technology PondyCuddalore, East Coast Road, Kirumampakkam, Puducherry- 607403. 9626300600 idsoubache@gmail.com	India
Dr. H. Sudheer	Assistant Professor, Department of Electrical and Electronics Engineering, ICFAITech (Faculty of Science and Technology), IFHE Campus, Donthanapally, Shankarapalli Road, Hyderabad - 501203, Telangana. 9949119906 sudheer_hraj@yahoo.co.in	India
Dr. Capt. K. Sujatha	Professor & Head of Department, Department of Mathematics, St. Joseph's College for Women (Autonomous), Gnanapuram. Near Convert Junction, Visakhapatnam-530004. 9885480568 sujatha@stjosephsvizag.com	India
Er. S. John Pimo	Assistant Professor, Department of Computer Science and Engineering, St.Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil, Kanyakumari District, Tamil Nadu – 629 003. 9843257505 johnpimo@gmail.com	India

Abstract:

AN AUTOMATED AND INTEGRATED MOBILE APP FOR HANDLING ROAD ACCIDENT AND EMERGENCY SITUATION SMARTLY ABSTRACT OF THE INVENTION Road transprimary mode of transport in India and so many accidents happens every day. Ambulance services are available all over the country for earlier diagnosis. Due to una circumstances in the present system, the people may lead to death before going for the first aid. This issue can be resolved by introducing an Integrated and Smart A which alarms the respective service provider as soon as possible and hence saves the human life. By means of using this App, any user can notify the nearby ambula hospital directly without an intermediate service provider. It eliminates the third party completely to minimize the ambulance 's time in reaching the accident zone. Fiverifies the truthiness of incident through the accident's zone image/video given by the user. Blood donors list with their name, address, phone number and their blc available to handle the patient's critical situations.

Complete Specification

Claims:WE CLAIMS

- 1. An Automated alarmed notification sent to the nearby ambulance drivers and hospital without any third party and thus reduces the delay in vehicle arrival time.
- 2. Proof of the accident is verified digitally and automatically by uploading the image or video of the accident zone and injured person.
- 3. Hospital authorities can view the patient's condition visually from their location and make required pre-arrangements in-prior accordingly.
- 4. Once the patient's blood group known, information about the blood requirement is sent to all the nearby donors by tracking their current location, if required., Description: DETAILED DESCRIPTION OF THE INVENTION

FIG 1 describes the overall description of the application's process and which clearly states that it has three different users as follows

- 1. User role
- 2. Ambulance driver role
- 3. Hospital role

The overall process involved by three users (user, ambulance drive and hospital) is briefly described below:

- 1. User role -Process:
- ? Any user can use this mobile App without any prior registration.
- ? User informs the ambulance driver who is nearer to the accident's zone by submitting the details like user name, image or video of the accident zone and location

automatically fetched by GPS

View Application Status

राष्ट्रीय मतदाता सेवा पोर्टल NATIONAL VOTERS' SERVICES PORTAL Dr. E. VIJAYAKRISHNA RAPAKA

B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M

PRINCIPAL

Rajiv Gandhi College of Engineering & Technology Pondy - Cuddalore Main Road Kirumampakkam, Puducherry - 607 402

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

Home (http://ipindla.nic.in/index.htm) About Us (http://ipindla.nic.in/about-us.htm) Who's Who (http://ipindla.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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



Investiga Title	ADTIFICIAL NIFLIDAL NETWO	DOWN PACED MACHINE LEADING WITH			
Invention Title	†	ORK BASED MACHINE LEARNING INTRUSION DETECTION IN WIRELESS NETWORK USING FEATURE	SELECTI		
Publication Number	43/2020				
Publication Date	23/10/2020				
Publication Type	INA				
Application Number	202011042949		***************************************		
Application Filing Date	02/10/2020		******************************		
Priority Number					
Priority Country			***************************************		
Priority Date					
Field Of Invention	COMPUTER SCIENCE				
Classification (IPC)	G06K 9/62 H04L 29/06 G06	N 20/00			
Inventor					
Name		Address	Count		
Pushpa Gothwal, Amity University	ersity Rajasthan	Amity University Rajasthan NH11C Kant Kalwar, RIICO Industrial Area, Jaipur Rajasthan India 303007	India		
Dr. I. D. Soubache, Rajiv Gand and Technology	dhi College Of Engineering	Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India		
Ankur Gupta, Vaish College o	f Engineering	Vaish College of Engineering Rohtak Station Diary Mohalla Rohtak Haryana India 124001	India		
Dr. V. S. Bhagavan, Koneru Lakshmaiah Education Foundation Deemed to be University		Koneru Lakshmaiah Education Foundation, Deemed to be University Green Fields, Vaddeswaram, Guntur Andhra Pradesh India 522502	India		
Dr. R. Prema, Hindusthan College of Arts and Science		Hindusthan College of Arts and Science Avinashi Road Coimbatore Tamilnadu India 641 028	India		
Dr. A.P. Jagadeesan, R.V.S. College of Engineering		R.V.S. College of Engineering RVS Nagar, Karur Road, N. Paraipatty Post Dindigul Tamilnadu India 624005	India		
K Ranjit Kumar, Annamalai U	niversity	Annamalai University Annamalai Nagar Chidambaram Tamilnadu India 608002	India		
K. Manikandan, Government Arts College - Autonomous		Government Arts College - Autonomous Karuppur Road, Kumbakonam Tamil Nadu India 612002	India		
Dhruvang Suthar		8,vaibhav bunglows near visat petrol pump Gandhinagar highway, Sabarmati Ahmedabad Gujarat India 382424	India		
Applicant					
Name		Address	Count		
Pushpa Gothwal, Amity Unive	ersity Rajasthan	Amity University Rajasthan NH11C Kant Kalwar, RIICO Industrial Area, Jaipur Rajasthan India 303007	India		
Dr. I. D. Soubache, Rajiv Gandhi College Of Engineering and Technology		Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India		
Ankur Gupta, Vaish College of Engineering		Vaish College of Engineering Rohtak Station Diary Mohalla Rohtak Haryana India 124001	India		
Dr. V. S. Bhagavan, Koneru Lakshmaiah Education Foundation Deemed to be University		Koneru Lakshmaiah Education Foundation, Deemed to be University Green Fields, Vaddeswaram, Guntur Andhra Pradesh India 522502	India		
Dr. R. Prema, Hindusthan College of Arts and Science		Hindusthan College of Arts and Science Avinashi Road Colmbatore Tamilnadu India 641 028	India		
Or. A.P. Jagadeesan, R.V.S. Coll	lege of Engineering	R.V.S. College of Engineering RVS Nagar, Karur Road, N. Paraipatty Post Dindigul Tamilnadu India 624005	India		
K Ranjit Kumar, Annamalai Ur	niversity	Annamalai University Annamalai Nagar Chidambaram Tamilnadu India 608002	India		
K. Manikandan, Government Arts College - Autonomous		Government Arts College - Autonomous Karuppur Road, Kumbakonam Tamil Nadu India 612002	India		
Ohruvang Suthar	***************************************	8,valbhav bunglows near visat petrol pump Gandhinagar highway, Sabarmati Ahmedabad	India		

Dr. E. VIJAYAKRISHNA RAPAKA B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,

PRINCIPAL Rajiv Gandhi College of Engineering & Technology Pondy - Cuddatore Main Road,

Lkom Puducherry 607

Gujarat India 382424

In this invention, a novel system is developed based on supervised machine learning which is able classify network traffic whether it is benign or malicious. Best mod based on success rate of detection hence feature selection method is integrated with supervised learning algorithm in this invention. Based on research Artificial Net (ANN) is found to be outperform than support vector machine (SVM) as the proposed invention involves machine learning along with wrapper feature selection in or network traffic. Intrusion detection is the first step in prevention security attack. Network traffic is classified by this system using both SVM algorithm and ANN algorit utilizing NSL-KDD dataset. It is found that success rate of intrusion detection for the proposed Artificial Intelligence based Machine learning algorithm for wireless ne comparatively efficient than SVM algorithm.

Complete Specification

In the current era, usage of Internet is spreading which in turn increasing usage of online content in all fields thereby increasing the rate of cybercrime. First step involved in preventing security attack in cybercrime is intrusion detection. Researchers are attracted much towards security solutions such as Unified Threat Modeling (UTM), Firewall, Intrusion Prevention System (IPS) and Intrusion Detection System (IDS) in network security. Cyber attacks are detected by IDS systems from various sources and networks by collection of information and then analyzing it through security breaches.

IDS based on network, analyses data packets travelling over the network where the analysis is done by two methods namely anomaly based detection and signature based detection. Anomaly based intrusion detection undergoes several challenges as it has deal with novel attacks whose prior knowledge is not known such that the anomaly can be identified. Hence it is necessary for the system to be intelligent such that it somehow segregates the data traffic into harmless traffic and malicious traffic sent by anomalous users. This feature is achieved by utilizing

View Application Status



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

Dr. E. VIJAYAKKISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), and J. H.T. Madrasi
PRINCIPAL
PRINCIPAL
Rajiv Gandhi College of Engineering & Technology
Pondy - Cuddalore Main Road,
Pondy - Cuddalore Main Road,
Kirumampakkam, Puducherry - 607 402.

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm)

Achievements (http://inindia.nic.in/achievements-nage.htm) Home (http://ipinala.nic.in/index.htm) About Us (http://ipinala.nic.in/about-us.htm) Who's who (http://ipinala.nic.in/wholicy-pages.htm) Achievements (http://ipinala.nic.in/achievements-page.htm) Achievements (http://ipinala.nic.in/achievements-page.htm) Feedhack (https://ininala.nic.in/achievements-page.htm) Citeman (shttp://ininala.nic.in/achievements-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm)

RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindia.nic.in/achievements-page.htm)

Feedback (https://ipindia.nic.in/contact-us.htm) Helo Line (https://ipindia.nic.in/heloline-page.htm)

Sitemap (shttp://ipindia.nic.in/itemap.htm)



5 (http://ipindia.nic.in/index.htm)



	The second secon		-ystem	,	dia.nic.in/indi	ex.htm)	*	up to Main (
	Invention Title	Committee and the committee an				INTE	LLECT	UAL (http
	Publication Number	A.	DEEP LEAR	IING APPROACULE	Patent Search	Miterial Glocal	INTELLECTI PROPERTY	
	Publication Date	46/	/2020	FOR COST E	FFICIENT SMAPT COM		. white subst	CATIONS
	Publication Type	13/	11/2020		SURVEILLANCE	SYSTEM USING PA		
	Application Number	INA				PREPROCESSING	G EDG	E COMPLE
	Application Filing Date	2020	41048756				*****************	COMPUTI
	Priority Number	08/11			Control of the Contro		and the second state of th	
	Priority Country			Management and the second seco			****************	*******************************
	Priority Date	The second secon	Code Contract Code (Code	The second secon				The state of the s
	Field os	AND AND ADDRESS OF THE PARTY OF	and the second section of the second	The state of the s	The second secon		************	***************************************
	Field Of Invention	FIECT		and the second s			Andrew Constanting of the Consta	***************************************
	Classification (IPC)	ELECTRO	ONICS		The second secon	***************************************	Telegraph and the second	The same and
1	Inventor	HU4N000)7180000, F	04L00290900	96000, H04L0012240000, H04N			***************************************
1	Name		***************************************	23080000, G08B001319	96000 H04100		The second second	Considerate consideration and recognisions.
D	Or. Vijayakrishna Rapaka E,I of Engineering and Technolo	C. Starrage and St. 1990.	***************************************	Address	7,1104L0012240000, H04N	002164	The same of the same of the same of	the second second second second second second second
Educ	. I. D. Soubache,Rajiv Gand gineering And Technology Veerraju Gampala,Koneru I cation Foundation Kumar R. D.,Ayya Nadar Jan.	akshmaia	De _l Vad	artment of Computer Science	India 607403	ddalore, East Coast Road	*************	Counti
Arts,Sc	cience and Co	Ollege of	Roac	ant Professor, Department	desh India 522502	hmaiah Education Foundan	\$11-950-18-18-18-18-18-18-18-18-18-18-18-18-18-	India
nr. Mal f Techr	hendra Kumar Garanayak. Nology	Subach	Kuma	anda Sagar College of Arts S	-14 026124 yya Nada	Ir Janaki Ammal College C	*************	India
hnolo	ogy and Farriage City Inc	**************************************	Barang	BPUT Compartment of	11dia 560078	rialleshwara Hills, 1st st	ictur	India
R.Krisi neerin	TANK MANAGEMENT AND ADDRESS OF THE PARTY OF	ritule of	Enginee	Professor, Department of S	Jupash Instit	tute of Technology Co	1	ndia
ant	rmamoorthy,Sree Sastha In ng and Technology	stitute of	Sree Sast	a Institute of Engineer	Computer Science, Subash Instit omputer Science, Temple City In Inathpur, BPUT, Odisha India 75 Ind Technology Chennal	Stitute of Technic	In	dia
STATE OF THE PARTY NAMED IN			The state of the s	india 600123	omputer Science, Temple City In Inathpur, BPUT, Odisha India 75 Id Technology Chennai to Banga	1001	Ind	lia
			The second second section day		The state of the s	- Highway Chennai	Indi	······································

dr. E. vijayakrishna rapaka

B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,

PRINCIPAL

Intellectual Property India

Name	Address	Countr
Dr. Vijayakrishna Rapaka E,Rajiv Gandhi College Of Engineering and Technology	Professor, Department of Mechanical Engineering, Rajiv Gandhi College Of Engineering and Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Dr. I. D. Soubache,Rajiv Gandhi College Of Engineering And Technology	Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Dr. Veerraju Gampala,Koneru Lakshmaiah Education Foundation	Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram Guntur Andhrapradesh India 522502	India
Sivakumar R. D.,Ayya Nadar Janaki Ammal College	Assistant Professor, Department of Computer Science, Ayya Nadar Janaki Ammal College Srivilliputtur Road Sivakasi West, Tamil Nadu India 626124	India
Dr.Kavitha S,Dayananda Sagar College of Arts,Science and Commerce	Dayananda Sagar College of Arts,Science and Commerce Shavige Malleshwara Hills, 1st Stage, Kumaraswamy Layout, Bengaluru, Karnataka India 560078	India
Mr. Mahendra Kumar Garanayak,Subash Institute of Technology	Assistant Professor, Department of Computer Science, Subash Institute of Technology Gyan Vihar, Barang, BPUT, Odisha India 751002	India
Gopabandhu Sahoo,Temple City Institute of Technology and Engineering	Assistant Professor, Department of Computer Science, Temple City Institute of Technology and Engineering Barunei Temple Rd, Jagannathpur, BPUT, Odisha India 751001	India
Dr. R.Krishnamoorthy,Sree Sastha Institute of Engineering and Technology	Sree Sastha Institute of Engineering and Technology Chennai to Bangalore highway Chennai Tamilnadu India 600123	India

Abstract:

In the current era, smart surveillance system is becoming popular as technology involved in it has become cheaper and easier to use. Traditional surveillance system continuous recording such that huge storage volume is required for storing the video footage. This in turn generates large amount of data thereby reducing the life c New surveillance devices are enabled access with Internet connection able to save video footage to the cloud which requires more bandwidth requirement with extra cloud. In this invention, we propose a smart surveillance system based on deep learning which is distributed and scalable utilizing edge computing for pre processing system along with cloud computing. In our work, bandwidth requirement and cost is significantly reduced as the video footage undergoes preprocessing prior to sen cloud with more video clarity.

Complete Specification

Claims:1. A hierarchical architecture for smart surveillance system is proposed using Raspberry Pi as Edge server as it used docker and setup cluster of Raspber devices.

- 2. Processing layer involves four Raspberry pi Model B out of which one functions as load balancer with Face database in our recognition algorithm involves 3651
- 3. Surveillance system involves face recognition where Edge cloud is connected to remote cloud through the system consisting of IP cameras, cloud resources and devices.
- 4. Deep learning model is able to perform face recognition with high accuracy of 98.9%.
- 5. Object storage is done using S3, notification system is through SNS and DynamoDB is utilized as NoSQL database.
- 6. Preprocessing of footage is done hence requires less bandwidth and operates at low cost.
- , Description: In this invention Amazon Web Services (AWS) is the choice of Cloud and Rekognition is used for Cloud processing. Cluster of Raspberry Pi are used Server where two Raspberry pi are utilized in preprocessing layer and three Raspberry pi 3 of Model B are utilized in processing layer.
- · Testing of the system is done by using one IP camera but system is scalable hence no restriction on number of devices that can be connected.
- IP camera of our choice is a generic IP camera with 1280x960p resolution and ONVIF 2.0 support where one of the nodes operates as load balancer.
- Round robin load balancer is used with Python 2.7 as programming language with face detection & image manipulation done using OpenCV 3.2
- Quality of dataset can be improved by using cascade classifiers based on Haar-like feature along with Google Photos where photos can be uploaded free of chathe users from any location

View Application Status



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

Dr. E. VIJAYAKRISHNA RAPAKA

B.Tech. (Mech., M. Tech. (Energy), Ph.D. (IIT Madras)

B.Tech. (Mech., M. Tech. (Energy), Ph.D. (IIT Madras)

PRINCIPAL

Rajiv Gandhi College of Engineering & Technology

Rondy - Cuddatore Main Road,

Pondy - Cuddatore Main Road,

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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



Patent Search

	Patent Search				
nvention Title	IOT BASED OPTIMIZED MANAGEMENT OF RENEWABLEENERGY MICROGRIDS				
Publication Number	48/2020				
Publication Date	27/11/2020				
Publication Type	INA	····			
Application Number	Application Number 202041050451				
Application Filing Date	19/11/2020				
Priority Number					
Priority Country					
Priority Date					
Field Of Invention	ELECTRICAL				
Classification (IPC)	H02J3/02	***************************************			
Inventor					
Name	Address	Count			
Dr. Vijayakrishna Rapaka E	Professor, Department Of Mechanical Engineering, Rajiv Gandhi College Of Engineering And Technology, Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India			
Dr. I. D. Soubache	Rajiv Gandhi College Of Engineering And Technology, Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry, Puducherry, India 607403	India			
Abhijeet D. More	Pillai Hoc College Of Engineering And Technology, Hoc Colony Rd, Taluka Rasayani, Maharashtra, India 410207	India			
Dr. M.N.Faruk	Navodaya Institute of Technology, Bijengera, Road Raichur, Karnataka, India 584103	India			
Dr. R. Saravanan	Navodaya Institute of Technology, Bijengera, Road Raichur, Karnataka, India 584103	India			
Sivakumar R. D.	Assistant Professor, Department Of Computer Science, Ayya Nadar Janaki Ammal College, Srivilliputtur Road, Sivakasi West, Tamil Nadu India 626124				
Dr Vivek Uprit	Sage University, Kailod Kartal, Rau Bypass Indore, Madhya Pradesh, India 452020				
Dr. Krishnamoorthy R	Sree Sastha Institute Of Engineering And Technology, Chennai To Bangalore Highway, Chennai, Tamil Nadu, India 600123				
Dr.Y.N.Vijaya Kumar	Sri Venkateswara College of Engineering and Technology (Autonomous), RVS Nagar, Chittoor, Andhra Pradesh India 517127				
Dr.S L Prathapa Reddy	Associate Professor, Department of Electronics and Communication Engineering, KSRM College of Engineering, Yerramasupalli, C.K. Dinne, YSR Kadapa, Andhra Pradesh, India 516003				
Applicant					
Name	Address	Count			
Dr. Vijayakrishna Rapaka E	Professor, Department Of Mechanical Engineering, Rajiv Gandhi College Of Engineering And Technology, Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India			
Dr. I. D. Soubache	Rajiv Gandhi College Of Engineering And Technology, Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403				
Abhijeet D. More	Pillai Hoc College Of Engineering And Technology, Hoc Colony Rd, Taluka Rasayani, Maharashtra, India 410207				
Dr. M.N.Faruk	Navodaya Institute of Technology, Bijengera, Road Raichur, Karnataka, India 584103				
Dr. R. Saravanan	Navodaya Institute of Technology, Bijengera, Road Raichur, Karnataka, India 584103				
Sivakumar R. D.	Assistant Professor, Department Of Computer Science, Ayya Nadar Janaki Ammal College, Srivilliputtur Road, Sivakasi West, Tamil Nadu India 626124				
Dr Vivek Uprit	Sage University, Kailod Kartal, Rau Bypass Indore, Madhya Pradesh, India 452020				
Dr. Krishnamoorthy R	Sree Sastha Institute Of Engineering And Technology, Chennai To Bangalore Highway, Chennai, Tamil Nadu India 600123				
Dr.Y.N.Vijaya Kumar	Sri Venkateswara College of Engineering and Technology (Autonomous), RVS Nagar, Chittor, Andhra Rradesh, India 517127				
Dr.S L Prathapa Reddy	Associate Professor, Department of Electronics and Communication Engineering, KSRM College of Engineering, Yerramasupalli, C.K. Dinne, YSR Kadapa, Andhra Pradesh, India 516003 Dr. E. VIJAYAKRISHNA RAPAKA	India			
	D Task (Mask) M Task (Energy) Dh D (III Madisa)				

B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,

PRINCIPAL

Renewable energy has distributed generation as significant challenge where energy generation and consumption are generally located in nearness. A solution is proving microgrid for this challenge as it avails integration of distributed generation reliably which includes storage of energy and controlled loads. Microgrid is a electricity go system that operates in bidirectional mode allowing electricity distribution from suppliers to consumers through digital technology. Hence Microgrids boosts integrat renewable energy sources thereby optimizing energy management through Internet of Things (IoT). This invention designs and develops wireless sensor network sys integration with webbased platform for optimal management of microgrid through continuous monitoring. High capability of data processing with high storage capa by integrated IoT platform with LoRaWan technology for deploying and implementing low power wireless remote monitoring network for optimized management of

Complete Specification

Claims:1. This invention provides secure, scalable energy management system for microgrids based on Internet of Things.

- 2. LoRaWAN technology ensures minimized data traffic with reduced collisions in transmissions based on payload size.
- 3. Independent modules can be replicated for similar systems of microgrids at reduced cost.
- 4. Information system based on IoT is able to obtain heterogeneous data from several sources and able to conduct advanced data analysis.
- 5. Microgrids producing renewable energy is managed in an optimal way based on wireless sensor network operated based on IoT.
- 6. Microgrids can be utilized in residential campus as well as in commercial campuses in an optimal way using this invention.
- , Description: In this invention, the IoT based energy management system involves LoRaWAN sensor network which is evaluated in terms of packet losses and L signals namely LSNR and RSSI with the quality indicators as emitters.
- The packet loss ratio of the microgrid management system is obtained as 0.9% for a specific period where LSNR & RSSI along with signal quality show higher vacomparison to the LoRa standards.
- · This feature makes the microgrid system feasible for applying both for residential purpose as well as commercial purpose with low packet losses.
- Issues of local interferences are eliminated by maintaining a shorter distance between gateway and the emitters of the system such that packet losses are spatime and occur as small sporadic bursts.
- The proposed system is able to receive, process and store data from the deployment of wireless sensor network and microgrid SCADA as well as from other exavailable information system such as weather database.

View Application Status



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

Dr. E. VLJAVAHRISHVA RAPAKA
B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (HT Medias)
M.L.S.T.E., F.L.P.E., M.C.S.I M.C.I.I.I.,
PRINCIPAL

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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



Patent Search

Invention Title	ARTIFICIAL INTELLIGENCE BASED SMART SURVEILLANCE SYSTEM FOR REAL TIME PEDESTRIAN CROSSING
Publication Number	50/2020
Publication Date	11/12/2020
Publication Type	INA
Application Number	202041053074
Application Filing Date	05/12/2020
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	H04N 7/18

Inventor

Name	Address	Countr
Dr. Vijayakrishna Rapaka E	Professor, Department of Mechanical Engineering, Rajiv Gandhi College Of Engineering and Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Dr. I. D. Soubache	Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Dr. M.N.Faruk	Navodaya Institute of Technology Bijengera, Road Raichur Karnataka India 584103	India
Dr. R. Saravanan	Navodaya Institute of Technology Bijengera, Road Raichur Karnataka India 584103	India
Dr. Seema Kharb	National Institute of Technology Delhi A-7, Institutional Area, near Satyawadi Raja Harish Chandra Hospital, New Delhi Delhi India 110040	India
Jayakumar N	The oxford College of Engineering 10th Milestone, Hosur Rd Bommanahalli, Bengaluru Karnataka India 560068	India
Dr.B.Devi vighneshwari	The oxford College of Engineering 10th Milestone, Hosur Rd Bommanahalli, Bengaluru Karnataka India 560068	India
Nisha C Rani	The oxford College of Engineering 10th Milestone, Hosur Rd Bommanahalli, Bengaluru Karnataka India 560068	India
Dr.Jai Kumar Maherchandani	College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology University Rd, Ganapati Nagar Udaipur Rajasthan India 313001	India
Dr.T.Sunilkumar Reddy	Sri Venkatesa Perumal College Of Engineering And Technology(Autonomous), R V S Nagar,Chinnaraj Kuppam, K N Road Puttur Andhra Pradesh, India 517583	India

Applicant

Name	Address	Countr
Dr. Vijayakrishna Rapaka E	Professor, Department of Mechanical Engineering, Rajiv Gandhi College Of Engineering and Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Dr. I. D. Soubache	Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Dr. M.N.Faruk	Navodaya Institute of Technology Bijengera, Road Raichur Karnataka India 584103	India
Dr. R. Saravanan	Navodaya Institute of Technology Bijengera, Road Raichur Karnataka India 584103	India
Dr. Seema Kharb	National Institute of Technology Delhi A-7, Institutional Area, near Satyawadi Raja Harish Chandra Hospital, New Delhi Delhi India 110040	India
Jayakumar N	The oxford College of Engineering 10th Milestone, Hosur Rd Bommanahalli, Bengaluru Karnataka India 560068	India
Dr.B.Devi vighneshwari	The oxford College of Engineering 10th Milestone, Hosur Rd Bommanahalli, Bengaluru Karnataka India 560068	India
Nisha C Rani	The oxford College of Engineering 10th Milestone, Hosur Rd Bommanahalli, Bengaluru Karnataka India 560068	India
Dr.Jai Kumar Maherchandani	College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology University Rd, Ganapati Nagar Udaipur Rajasthan India 313001	India
Dr.T.Sunilkumar Reddy	Sri Venkatesa Perumal College Of Engineering And Technology(Autonomous), R VS Nager, Chihberal Kuppan, K N Road Puttu III. Andhra Pradesh, India 517583 B. Tech. (Mech.), M. Tech. (Energy), Ph.D. (III. M. L. S. T. E., F. Li L. P. E., M. C. S. I	Madias)

https://iprsearch.ipindia.gov.in/PublicSearch/PublicationSearch/PatentDetails 22

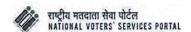
Artificial Intelligence has gained strong potential in various fields of application as it provides safety and security in a significant way. Intelligent Transportation Systen are data driven are efficient in the services of the emerging technology Internet of Vehicles (IoV). This invention deals with implementing deep learning methods in rescenario for increased security and safety. This system of Artificial Intelligence based smart surveillance system for Pedestrian crossing combines image detection an classification for detection of various objects such as vehicles, pedestrians, barriers, traffic lights, vehicle trajectory tracking etc. The proposed system uses high resol cameras for capturing images of entire pedestrian crossing area positioned suitably. Deep neural network along with GPU accelerated image processing techniques a for detecting autonomously any dangerous or risky situation at pedestrian crossing in real time system.

Complete Specification

Claims:1. Complex intelligent system is proposed for monitoring pedestrian crossing for detection any risky or dangerous events using this autonomous system 2. Global security is provided by this system as the security and communication layers are able to provide privacy and communication security to the data collect this system.

- 3. Alerts are triggered by this system once after detecting risky situations.
- 4. Convolutional deep learning techniques are utilized for detection of such risky situations.
- 5. Unique dataset is created by the system containing update of pedestrian crossings and barriers available enhancing object detection method.
- 6. Risky events are detected which are evaluated and notified to relevant authenticated officials.
- , Description: In this invention, transfer learning technique is employed for training the models of Deep Convolutional Neural Network for object detection.
- Pre training model on MS dataset is used for training the SSD models.
- Database of the image is intended for proceeding with computer vision.
- · The proposed system of pedestrian crossing monitoring involves two main algorithms evaluating the state of the area.
- · The first algorithm involves learned model of the neural network which continuously checks the current state of the camera module.
- · This algorithm is able to define the selected area is in monitoring mode.
- · The second algorithm is Gaussian Mixture based algorithm which is used to evaluate the monitoring area for occurrence of objects.
- Background subtraction technique is used by this method which utilizes mentioned mixture of Gaussian for accurately evaluating the objects

View Application Status



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

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (NT Magnes)
M.I.S.T.E., F.J.P.E., M.G.S.; M.G.Islie
PRINCIPAL
Rajiv Gandhi College of Engineering & Technology
Pondy - Cuddalore Main Road,
Kirumampakkam, Puducherry - 607 402.

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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

Skip to Main Content (http://ipindia.nic INTELLECTUAL PROPERTY INDIA MENTAL INDICATIONS SEOGRAPICAL PROCATIONS

Patent Search

		Patent Search	
Invention Title	IOT BASED REAL TIME	HEALTH CARE SYSTEM ENABLED BY WEARABLE SENSOR NETWORK	
Publication Number	05/2021		
Publication Date	29/01/2021		
Publication Type	INA		
Application Number	202111002807		***************************************
Application Filing Date	20/01/2021		
Priority Number			***************************************
Priority Country			***************************************
Priority Date			
Field Of Invention	COMMUNICATION		
Classification (IPC)	G16H 40/63 A61B 5/00	G08B 21/04	
Inventor			
Name		Address	Country
Dr. Seema Kharb		Assistant Professor, Department of Computer Science & Engineering, National Institute of Technology Delhi A-7, Institutional Area, near Satyawadi Raja Harish Chandra Hospital, New Delhi Delhi India - 110040	India
Dr Anusuya saravanan,Indra Ganesan College of Engineering		Registrar, Indra Ganesan College of Engineering Trichy-Madurai Highway Trichy Tamil Nadu India 620012	India
Dr. I. D. Soubache,Rajiv Gandhi College Of Engineering And Technology		Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Chandran M,The Oxford College of Engineering		Department of Mathematics, The Oxford College of Engineering 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka India 560068	India
Dr.T. Bhuvanendhiran,Dr.T.Thimmaiah Institute of Technology		Associate professor, Dept. of ECE Dr.T.Thimmaiah Institute of Technology Oorgaum Post, K.G.F Karnataka India 563120	India
Ruchi Yadav,Sharda Univ	ersity	Research Scholar, Sharda University Knowledge Park III, Greater Noida, Uttar Pradesh India 201310	India
Maniza Hijab,Muffakham Jah College of Engineering and Technology		Associate Professor, Department of Computer Science and Engineering, Muffakham Jah College of Engineering and Technology, Mount Pleasant, Rd # 3 Banjara Hills Hyderabad Telangana India 500034	India
Dr. Mohammad Pasha,Muffakham Jah College of Engineering and Technology		Assistant Professor, Information Technology Department, Muffakham Jah College of Engineering and Technology, Mount Pleasant, Rd # 3 Banjara Hills Hyderabad Telangana India 500034	India
Dr. Mohd Umar Farooq,Muffakham Jah College of Engineering and Technology		Associate Professor, Department of Computer Science and Engineering, Muffakham Jah College of Engineering and Technology, Mount Pleasant, Rd # 3 Banjara Hills Hyderabad Telangana India 500034	India
Mr. Jeevan Madhavrao K Mahavidyalaya Ambajog		Assistant Professor, Yogeshwari Mahavidyalaya Ambajogai, Affiliated to Dr. B.A.M.University, Ambajogai, Maharashtra India 431517	India

Applicant

Dr. E. VIJAYAKRISHNA RAPAKA B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I., PRINCIPAL

Intellectual Property India

Name	Address	Count
Dr. Seema Kharb	Assistant Professor, Department of Computer Science & Engineering, National Institute of Technology Delhi A-7, Institutional Area, near Satyawadi Raja Harish Chandra Hospital, New Delhi Delhi India - 110040	India
Dr Anusuya saravanan,Indra Ganesan College of Engineering	Registrar, Indra Ganesan College of Engineering Trichy-Madurai Highway Trichy Tamil Nadu India 620012	India
Dr. I. D. Soubache,Rajiv Gandhi College Of Engineering And Technology	Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Chandran M,The Oxford College of Engineering	Department of Mathematics, The Oxford College of Engineering 10th Milestone, Hosur Rd, Bommanahalli, Bengaluru, Karnataka India 560068	India
Dr.T. Bhuvanendhiran,Dr.T.Thimmaiah Institute of Technology	Associate professor, Dept. of ECE Dr.T.Thimmaiah Institute of Technology Oorgaum Post, K.G.F Karnataka India 563120	India
Ruchi Yadav,Sharda University	Research Scholar, Sharda University Knowledge Park III, Greater Noida, Uttar Pradesh India 201310	India
Maniza Hijab, Muffakham Jah College of Engineering and Technology	Associate Professor, Department of Computer Science and Engineering, Muffakham Jah College of Engineering and Technology, Mount Pleasant, Rd # 3 Banjara Hills Hyderabad Telangana India 500034	India
Dr. Mohammad Pasha,Muffakham Jah College of Engineering and Technology	Assistant Professor, Information Technology Department, Muffakham Jah College of Engineering and Technology, Mount Pleasant, Rd # 3 Banjara Hills Hyderabad Telangana India 500034	India
Dr. Mohd Umar Farooq,Muffakham Jah College of Engineering and Technology	Associate Professor, Department of Computer Science and Engineering, Muffakham Jah College of Engineering and Technology, Mount Pleasant, Rd # 3 Banjara Hills Hyderabad Telangana India 500034	India
Mr. Jeevan Madhavrao Kondre,Yogeshwari Mahavidyalaya Ambajogai	Assistant Professor, Yogeshwari Mahavidyalaya Ambajogai, Affiliated to Dr. B.A.M.University, Ambajogai, Maharashtra India 431517	India

Abstract:

Rapid growth of population along with their aging has led to major issue as health care of elders throughout the world. Technology plays significant role in improving of care service along with decreased manpower burden at low cost. Several entrepreneurs from health care industry have started seeking the assistance of technolog the issue of elderly care. This invention proposes IoT (Internet of Things) based health care system using wearable devices for generating notification of any abnormal Physiological parameters are recorded by wearable devices such as body tag, smart clothes and health watch which collect raw data which is then updated to the dat generating the personal report of elder's health analysis. If any abnormal value above the threshold, then the care notification system generates alerts and sent to cathe elders. Health management of elders with high blood sugar and high pressure becomes feasible by this invention as the care takers are able to get regular notific the condition of the elders at low cost with higher accuracy compared to conventional systems.

Complete Specification

Rapid development of medical technology has paved way for health monitoring of elders. During this pandemic period of declining population priority issue all over the world is elderly caring. Now a day's most of them opt for abroad jobs and not in a situation to live the elders hence they live alone or they are sent to elder care institutions for better care of them and their health but still near ones are not aware of the regular happenings or health status of their elders. Technology provides a significant solution by providing nursing assistance using wearable devices without any human intervention.

Healthcare cost has reduced by the usage of wearable devices such as AppleWatch, Garmin, MI Band and smart clothes where Gramin is utilized for tracing steps count of the user along with their heart beat; smart clothes are able to detect physiological parameters, sleeping efficiency, user's attitude and their moving. These wearable devices are able to monitor the physiological parameters of the elders continuously in order to manage their health and transfer the data to their medical professionals and care takers based on which personalized medical

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

Applicant

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.ln/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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

Skip to Main Content (http://ipindia.nic PROPERTY INDIA

Patent Search

Invention Title	DESIGN AND DEVELOPMENT O	F SCADA SYSTEM FOR AUTOMATED SOLAR POWERED PUMP			
Publication Number	11/2021				
Publication Date	12/03/2021				
Publication Type	INA ·	INA ·			
Application Number	202121009197				
Application Filing Date	05/03/2021				
Priority Number					
Priority Country					
Priority Date					
ield Of Invention COMMUNICATION					
Classification (IPC) H04L0029080000, G01J0001420		0000, G06Q0050100000, F24S0050000000, H04Q0009140000			
Inventor					
Name		Address	Count		
Praful Nandankar,Government Engineering College, Nagpur		Assistant Professor, Government Engineering College, Nagpur Nagpur, Maharashtra India 441108	India		
Dr. I. D. Soubache,Rajiv Gandhi College Of Engineering And Technology		Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India		
Aashutosh Kharb,Dr Akhilesh Das Gupta Institute of Technology and Management		Dr Akhilesh Das Gupta Institute of Technology and Management, Shastri Park Delhi Delhi India 110053	India		
Dr. Surender kumar,ADGITM		ADGITM, FC-26 Shastri park New Delhi New Delhi India 110053	India		
P.Prasant,CT University		#305 CT University CT University Ferozpr Road near Chiwnikimann, Ferozpr Road Ludhiana Punjab India 142024	India		
Dr.T. Bhuvanendhiran,Dr.T.Thimmaiah Institute of Technology		Associate professor, Dept. of ECE, Dr.T.Thimmaiah Institute of Technology Oorgaum Post, K.G.F Karnataka India 563120	India		
Dr.Shanti Verma,L.J Institute of Computer Applications		L.J Institute of computer applications L.J university Ahmedabad Gujarat India 382210	India		
Dr. Mukesh K Kumawat,SVIT		Associate Professor, Department of Electrical Engineering, Pravara, SVIT Nashik Pune Highway Chincholi, Nashik Maharashtra India 422102	India		
Dr. R. Krishnamoorthy,Sree Sastha Institute of Engineering and Technology		Associate Professor, Sree Sastha Institute of Engineering and Technology Chembarambakkam Chennai Tamil Nadu India 600123	India		
		Assistant Professor, Rajiv Gandhi university of knowledge Technologies- RGUKT Nuzvid campus Nuzividu, Andhra Pradesh India 521202	India		
			4		

Dr. E. VIJAYAKRISHNA RAPAKA B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I., PRINCIPAL Rajiv Gandhi College of Engineering & Technology Kajiy Galiulii Gollege of Engiliceting & Teolifology Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 402

Intellectual Property India

Name	Address	Counti
Praful Nandankar,Government Engineering College, Nagpur	Assistant Professor, Government Engineering College, Nagpur Nagpur, Maharashtra India 441108	India
Dr. I. D. Soubache,Rajiv Gandhi College Of Engineering And Technology	Rajiv Gandhi College Of Engineering And Technology Pondy Cuddalore, East Coast Road, Kirumampakkam Puducherry Puducherry India 607403	India
Aashutosh Kharb,Dr Akhilesh Das Gupta Institute of Technology and Management	Dr Akhilesh Das Gupta Institute of Technology and Management, Shastri Park Delhi India 110053	India
Dr. Surender kumar,ADGITM	ADGITM, FC-26 Shastri park New Delhi New Delhi India 110053	India
P.Prasant,CT University	#305 CT University CT University Ferozpr Road near Chiwnikimann, Ferozpr Road Ludhiana Punjab India 142024	India
Dr.T. Bhuvanendhiran,Dr.T.Thimmaiah Institute of Technology	Associate professor, Dept. of ECE, Dr.T.Thimmaiah Institute of Technology Oorgaum Post, K.G.F Karnataka India 563120	India
Dr.Shanti Verma,L.J Institute of Computer Applications	L.J Institute of computer applications L.J university Ahmedabad Gujarat India 382210	India
Dr. Mukesh K Kumawat,SVIT	Associate Professor, Department of Electrical Engineering, Pravara, SVIT Nashik Pune Highway Chincholi, Nashik Maharashtra India 422102	India
Dr. R. Krishnamoorthy,Sree Sastha Institute of Engineering and Technology	Associate Professor, Sree Sastha Institute of Engineering and Technology Chembarambakkam Chennai Tamil Nadu India 600123	India
Dr.Dilkush,Rajiv Gandhi university of knowledge Technologies	Assistant Professor, Rajiv Gandhi university of knowledge Technologies- RGUKT Nuzvid campus Nuzividu, Andhra Pradesh India 521202	India

Abstract:

In the current era, the technology of Internet of Things plays a major role is providing services related to remote access. We focus on developing a low cost SCADA (St Control and Data Acquisition) system for controlling and monitoring of a solar water pump from remote location. Renewable solar power enhances the efficiency of t cultivation process as sunlight is available abundantly in India compensating for the issues of power shortage. The system involves components namely Arduino Nan RED program for controlling purpose, digital camera, sensors such as voltage sensor, current sensor and solar irradiance sensor for measuring the parameters relate system. The user is able to get connected with the system through web server via IP address for monitoring and controlling the system. This system is a low cost syst components utilized are of low cost. Web server avails the measured data on the website for remote accessing of data from any location based on NGINX web server and User credentials are required to access data on the website. User friendly GUI is provided in the front for easy access.

Complete Specification

Claims:1. This invention proposes a low cost SCADA system for controlling and monitoring a solar water pump system.

- 2. The system involves Arduino Nano, GUI interface, voltage and current sensors, digital camera, sensors for detecting environmental parameters.
- 3. A graphical user interface is provided at the front end of our proposed SCADA system termed as dashboard.
- 4. Wireless communication of the sensed data is provided by 4G network and WiFi network.
- 5. Web server avails the measured data on the website for remote accessing of data from any location based on NGINX web server application and User credenti required to access data on the website.
- 6. Communication to Arduino Nano is possible by Node RED program using Firmata as its simple to communicate with the server.

FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

AND

THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(See Section 10; rule 13)

TITLE OF THE INVENTION

View Application Status



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

Dr. E. VIJAYAKRISHNA RAPAKA B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C....

PRINCIPAL

Applicant

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm) Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback) Sitemap (shttp://ipindia.nic.in/itemap.htm) Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)



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

Skip to Main Content (http://ipindia.nic INTELLECTUAL PROPERTY INDIA MINISTRALIA STORMANICA SHORMANICA SHOR

Patent Search

	r don't coard?			
Invention Title	INTEGRATION OF IOT AND MACHINE LEARNING APPROACHES FOR PREDICTING SOIL MOISTURE AND WEATHER WITH CROP PREDICING IMPROVE AGRICULTURE YIELDS			
Publication Number	40/2023			
Publication Date	06/10/2023			
Publication Type	INA	***************************************		
Application Number	202341063944	***************************************		
Application Filing Date	23/09/2023	************		
Priority Number				
Priority Country				
Priority Date		***************************************		
Field Of Invention	COMPUTER SCIENCE	******************		
Classification (IPC)	G06N0020000000, G06N0003080000, G06Q0050020000, A01G0025160000, G16H0020400000	***************		
Inventor		***************************************		
Name	Address	Count		
Yadati Vijaya Suresh	Associate Professor, Dept. of EEE, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal-518501, Andhra Pradesh, India.	India		
Dr.B.Hemavathi	Assistant Professor in Zoology on Contract, Department of Biosciences and Sericulture, Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh, Pin:517502	India		
Periasami Nagappan	Assistant Professor (Agricultural Economics), Department of Agricultural Economics, College of Agricultural Sciences, Vendhar Nagar, Baburayanpettai, Elapakkam, Acharapakkam, Chengalpattu-603201, Tamil Nadu, India.			
Dr A Suvarna Latha	Assistant Professor on Contract, Botany Faculty, Department of Biosciences and Sericulture, Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh, India.	India		
Dr. M . Swetha priya	Dept of Biosciences and Sericulture, Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh, India.	India		
Dr. Rajesh B. Survase	Assistant Professor, Department of Geography, E. S. Divekar College Varvand, Pune 412215, Maharashtra, India.			
Mr.Bhausaheb Bhaskar Vikhe	Assistant Professor, Department of Computer Engineering, Pravara Rural Engineering College, Loni.413736, Ahmednagar, Maharashtra, India.			
Dr. Droupti Yadav	ussistant Professor and Coordinator, Environmental Science and Technology, SLSBT, CSJM University Kanpur, Uttar Pradesh, andia 208024			
Dr Sunil Kumar K	R L Jalappa Institute of Technology Doddaballapur, Bangalore rural, Karnataka, India.	India		
K Venkataramana	Associate Professor/CSE, Sri Vasavi Engineering College, Tadepalligudem, 534101, Srikalahasti, Tirupati, Andhra Pradesh, India.	India		
E Nagarjuna	Associate Professor/ CSE, Sri Vasavi Engineering College, Tadepalligudem, 534101, Nellore, Andhra Pradesh, India.	India		
Dr.I.D.Soubache	Associate Professor, Department of BME Rajiv Gandhi College of Engineering and Technology, Pondicherry Cuddalore ECR Main Road Pondicherry-607404 Main	India		

VIJAYAKRISHNA RAPAKA B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,

Name	Address	Countr	
Yadati Vijaya Suresh	Associate Professor, Dept. of EEE, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal-518501, Andhra Pradesh, India.		
Dr.B.Hemavathi	Assistant Professor in Zoology on Contract, Department of Biosciences and Sericulture, Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh, Pin:517502		
Periasami Nagappan	Assistant Professor (Agricultural Economics), Department of Agricultural Economics, College of Agricultural Sciences, Vendhar Nagar, Baburayanpettai, Elapakkam, Acharapakkam, Chengalpattu-603201, Tamil Nadu, India.	India	
Dr A Suvarna Latha	Assistant Professor on Contract, Botany Faculty, Department of Biosciences and Sericulture, Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh, India.	India	
Dr. M . Swetha priya	Dept of Biosciences and Sericulture, Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh, India.	India	
Dr. Rajesh B. Survase	Assistant Professor, Department of Geography, E. S. Divekar College Varvand, Pune 412215, Maharashtra, India.	India	
Mr.Bhausaheb Bhaskar Vikhe	Assistant Professor, Department of Computer Engineering, Pravara Rural Engineering College, Loni.413736, Ahmednagar, Maharashtra, India.	India	
Dr. Droupti Yadav	Assistant Professor and Coordinator, Environmental Science and Technology, SLSBT, CSJM University Kanpur, Uttar Pradesh, India 208024	India	
Dr Sunil Kumar K	R L Jalappa Institute of Technology Doddaballapur, Bangalore rural, Karnataka, India.	India	
K Venkataramana	Associate Professor/CSE, Sri Vasavi Engineering College, Tadepalligudem, 534101, Srikalahasti, Tirupati, Andhra Pradesh, India.	India	
E Nagarjuna	Associate Professor/ CSE, Sri Vasavi Engineering College, Tadepalligudem, 534101, Nellore, Andhra Pradesh, India.	India	
Dr.I.D.Soubache	Associate Professor, Department of BME Rajiv Gandhi College of Engineering and Technology, Pondicherry Cuddalore ECR Main Road Pondicherry-607404 Main	India	

INTEGRATION OF IOT AND MACHINE LEARNING APPROACHES FOR PREDICTING SOIL MOISTURE AND WEATHER WITH CROP PREDICTION TO IMPROVE AGRICULTURE method for the development of the procedure includes creating a soil moisture layer equilibrium model, modifying the model's structure using remote sensing techn obtaining model parameters using remote sensing technology, and creating a database of watershed hydrological spatial information. By using the dynamic data driv application system as a technological paradigm, various updated actually measured meteorological data as a foundation, and actually measured initial soil moisture surface soil moisture state, growing state of crops, and the like as base, simulated forecast on soil moisture is made, according to the method. Additionally, by giving machine learning model weather forecast data for a location and time and giving the second machine learning model historical radar images for the location and an first machine learning model, we may generate enhanced predictive radar images. a data receiving device that receives information about the farming environment, cultivation data, and public data. FIG.1

Complete Specification

Description: INTEGRATION OF IOT AND MACHINE LEARNING APPROACHES FOR PREDICTING SOIL MOISTURE AND WEATHER WITH CROP PREDICTION TO IMPROVE AGRICULTURE YIELDS

Technical Field

[0001] The embodiments herein generally relate to a method for an integration of IOT and machine learning approaches for predicting soil moisture and weather crop prediction to improve agriculture yields.

Description of the Related Art

[0002] In terms of agricultural production, environment construction, and conservation through evapotranspiration, the water and motion content of the soil hav significant impact on the conversion process of the inner soil material. The soil water is addressed as a special subject under investigation and discussion in the glo moisture plan (Global Soil Wetness Project, GSWP), and has since emerged as a key area of interest for global change research. The process that is measured to sen time automatic collecting has dried during the course of the longer history of producing the soil moisture test method. Nowcasting often refers to a thorough expla of the weather that is predicted for the upcoming 0–6 hours. Due to these deteriorations, it is best for drivers to adjust their behavior to the current state of the roc certain situations, they should completely avoid regions that are judged to be excessively dangerous, such as those that have "black ice. Agriculture is a good exam primary sector that allowed people to congregate and create civilizations. While some weather factors, like precipitation, may obviously hinder harvesting efforts, or more benign daily weather factors also play important but understated roles.

View Application Status



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.

Dr. E. VIJAYAKRISHNA RARAMA Apdated on: 26/06/2019

B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL

Home (http://ipindia.nic.in/index.htm) About Us (http://ipindia.nic.in/about-us.htm) Who's Who (http://ipindia.nic.in/whos-who-page.htm)

Achievements (http://ipindia.nic.in/achievements-page.htm) Home (http://ipindia.nic.in/index.ntm) About Us (http://ipindia.nic.in/about-us.ntm) Who's Who (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm) Feedhack (https://ipindia.nic.in/achievements-page.htm)

Feedhack (https://ipindia.nic.in/feedhack) Siteman (shttp://ipindia.nic.in/feedhack) Siteman (shttp://ipindia.nic. Policy & Programs (http://ipindia.nic.in/policy-pages.htm) Achievements (http://ipindia.nic.in/achievements-page.htm)
RTI (http://ipindia.nic.in/right-to-information.htm) Feedback (https://ipindiaonline.gov.in/feedback)
Contact Us (http://ipindia.nic.in/contact-us.htm) Help Line (http://ipindia.nic.in/helpline-page.htm)

Sitemap (shttp://ipindia.nic.in/itemap.htm)



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



The same of the sa		ra search SystemP/IPINGIA.	nic.in/index.htm)		kip to Main C
Invention Tit	le			INTELLECT	TIII. //
Publication N	Umber	ANALYSIS OF THE NEW PARADIGM OF COLLEGE EDU 10/2024 08/03/2024 INA	atent so-	PROPERTY	UAL (http
Publication Da		10/2024 PARADIGM OF COLLEGE ED	Search	STOCKAPHICAL PHOL	CATIONS
Publication Typ	are	08/03/2024	UCATION THROUGH ANALOGY		
Applicati	De	INA	LOGY BASED ARTIFICIA	LINTELLICE	
Application Nur	mber	20244100			ICE PEDAGO
Application Filing	g Date			the constitution of the co	***************************************
riority Number		10/02/2024		******************************	The state of the s
Priority Country				Management of the Control of the Con	
Priority Date	anness and a second second second second second			***************************************	Martin San Andrews Commission (Commission Services Assessed
Field Of Invention					*******************************
Classification (IPC)	C	DMPUTER SCIENCE		AND	en andre en
Inventor	GC	6Q005020000		***************************************	*****************************
-	The second secon	Address		Mindelphina and an annual and an annual annual and an annual an annual and an annual an	danang ang ang ang ang ang ang ang ang an
Name		,710760005145000, G	06T000900000	to the same to the same of	Water and the second se
Dr. Kamalakkannan A	Adh:	Address	-5500000, G06T0007246000	The annual of the state of the	And the second s
	wilsekar	Assistant		A CONTRACTOR OF THE PARTY OF TH	
Dr. P. Ravisankar		Humanities, SRM Institute			
Swetha.S	The second of the sector is the section of the sect	Associate Professor D	ryship and Accounting	********************************	
		Humanities, SRM Institute of Science and Technology, Associate Professor, Department of Commerce (General Student, Department of Commerce)	Pin Code-603203.		Counti
Dr Kamini Sharma		coimbatore, 641062	al), Saveetha College of A	ince and	India
Reena Rai	E	Associate Professor, Department of Corporate Secreta Associate Professor, Department of Commerce (General Communication of Computer Science and Engineer Associate Professor, Department of Education of Education of Science Associate Professor, Department of Education of Science Science and Engineer Science Associate Professor, Department of Education of Education of Science Science and Engineer Science Associate Professor, Department of Education of Education of Science Associate Professor, Department of Education of Science and Technology, National Associate Professor, Department of Education of Education of Science and Technology, National Associate Professor, Department of Education of Science and Technology, National Associate Professor, Department of Communication of Science and Education of Science and Ed	ring ,Sri Shakthi Isaati	Dal 60-	
The same of the sa	R	search Scholer	institute of Engineering and Ta	iai 605102.	India
Dr Rahul Mangilal Bhanda	M	low, Indore, 453444	atil University, Nerva N	hnology,	India
	At	oni Tal Pahar	nent Dr. D 400706	***************************************	
osita Nayak	Ass	oni Tal Rahata District -Ahmadnagar District -Ahmad	Ambedkar University Of Social a	Name and Adaptive	India
r.S. Nithyadevi	Assis	tant Processor / BME, Rajiv Gandhi College	Social Sci	ences,	India
	Assis	Toressor of English, KIIT University	ring and Tech	***************************************	_
Manjushri Janardan Yadav	Chen	tant Professor / BME, Rajiv Gandhi College of Engineer tant Professor of English, KIIT University, Bhubaneswar, ant Professor, Department of Commerce, Prince of ali 600 073	751024		India
yariardan Yaday	V Assista	ant Professor of English, KIIT University, Bhubaneswar, ant Professor, Department of Commerce, Prince Shri Venture of Professor, Department of Management, International Professor, Department of Management, International Professor, Department	201-		ndia
Rani Sarode	Bengal	Jru, Karnataka	STIKATESHWARA Arts and Science College	Ir	odia
ony Savio Herminio da Ide Fernandos	Associa	e profes	al Institution	kkam.	*************
ade Fernandes	Founder	nt Professor, Department of Management, International Jru, Karnataka Je professor, Department of English and Languages, Na: Owner, Trading Equations, 54/C, Xell, Bastora, Bardez	Studies of Business Studies, Must	Inc	dia
ant		owner, Trading Equations 54(6)	shik Maki	Indi	***************************************
	And the state of t	Professor, Department of English and Languages, Na: Owner, Trading Equations, 54/C, Xell, Bastora, Bardez -	Good Annual Control of the Control o	"10	la
Charles Charleson	and the state of t		G0a (403507)	India	
		77-4-10-10-10-10-10-10-10-10-10-10-10-10-10-	110000000000000000000000000000000000000	inidia	ı

Dr. E. VIJAYAKRISHNA RAPAKA

B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras) M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,

PRINCIPAL

Rajiv Gandhi College of Engineering & Technology Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 402

Name	Address	Countr
Dr. Kamalakkannan Adhisekar	Assistant professor, Department of Corporate Secretaryship and Accounting & Finance, Faculty of Science and Humanities, SRM Institute of Science and Technology, Pin Code-603203.	India
Dr. P. Ravisankar	Associate Professor, Department of Commerce (General), Saveetha College of Arts and Sciences, Chennai 605102.	India
Swetha.S	Student, Department of Computer Science and Engineering ,Sri Shakthi Institute of Engineering and Technology, Coimbatore, 641062	India
Dr Kamini Sharma	Ex. Associate Professor , Department of Education, D Y Patil University, Nerul, New Mumbai - 400706	India
Reena Rai	Research Scholar, School Of Education And Skill Development, Dr. B. R. Ambedkar University Of Social Sciences, Mhow, Indore, 453441	India
Dr Rahul Mangilal Bhandari	At Loni Tal Rahata District -Ahmadnagar	India
Dr.I.D.Soubache	Associate Professor / BME, Rajiv Gandhi College of Engineering and Technology, Pondicherry 607403.	India
lpsita Nayak	Assistant Professor of English, KIIT University, Bhubaneswar, 751024	India
Dr.S. Nithyadevi	Assistant Professor, Department of Commerce, Prince Shri Venkateshwara Arts and Science College, Gowrivakkam, Chennai 600 073	India
Dr. Manjushri Janardan Yadav	Assistant Professor, Department of Management, International Institute of Business Studies, Muthugadahalli, Bengaluru, Karnataka	India
Dr. Rani Sarode	Associate professor, Department of English and Languages, Nashik, Mahiravani,422213	India
Anthony Savio Herminio da Piedade Fernandes	Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez - Goa (403507)	India

Analysis of the new paradigm of college education through analogy based artificial intelligence pedagogy is the proposed invention. The proposed invention focuses understanding the functions of new ideas of college education. The invention focuses on analyzing the parameters of New Paradigm for College Education using algoral Artificial Intelligence.

Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the Information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Artificial intelligence (AI) is a field of study that develops and studies intelligent machines. It is the ability of a computer or robot to perform tasks that are commonly associated with human intellectual processes, such as reasoning. The goals of AI include computer-enhanced learning, reasoning, and perception. AI is a today across different industries from finance to healthcare.

[0003] A number of different types of college education analysis systems that are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.

[0004] US20060166174A1: System and methods for predicting and dynamically adapting the most appropriate content and teaching strategies that aid individual learning. System and methods are based on a cognitive model that integrates new information with what the student already knows. A program of study is predicted unique cognitive needs of the individual student correlated with aggregated student data history using an Artificial Intelligence Engine (Al Engine). Said system and then dynamically adapt the initial cognitive model to the student's ongoing progress using personalized software Agents. Said system and methods include a componetwork that incorporates a server-side Al Engine and a collection of client-side software Agents embodied as animated characters. The program connects new inforced to prior knowledge and then strengthens these connections through dedicated learning Activities, customized to the student, to ensure that effective, and real, lear occurs.

100051 A College Education is an educational program that provides a bachelor's or higher degree. College Education can also include programs that provide a m

View Application Status

india.gov.in

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

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech. (Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.

PRINCIPAL