(12) PATENT APPLICATION PUBLICATION

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(54) Title of the inventio	on : Internet of things & artificial intelligent	based Automatic Herbicide Spraying System
 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:G05D0001020000, A01M0021040000, A01M0007000000, B25J0011000000, G05D0001000000 :PCT// :01/01/1900 : NA :NA :NA :NA :NA	 (71)Name of Applicant : 1)Ms. M.Ayeesha Nasreen Address of Applicant : Assistant Professor, Department of ECE, RMD Engineering College Kavaraipettai Gummidipoondi Taluk, Thiruvallur Dist. Pin: 601206 State: Tamil Nadu Country: India 2)Dr. R.Ilango 3)Yogalakshmi.V 4)Valarmathi.M 5)K.Varalakshmi 6)Mr. Surya Prakash 7)Mr. Anandaraj. B Name of Applicant : NA Address of Applicant : NA Address of Applicant : NA Address of Applicant : NA Address of Applicant : NA Address of Applicant : Sasistant Professor, Department of ECE, RMD Engineering College Kavaraipettai Gummidipoondi Taluk, Thiruvallur Dist. Pin: 601206 State: Tamil Nadu Country: India 2)Dr.R.Ilango Address of Applicant : Professor, Department of Electrical and Electronics Engineering, K.Ramakrishnan College of Engineering, Samayapuram, Trichy, Pin: 621 112 State: Tamil Nadu Country: India

(57) Abstract :

Internet of things & artificial intelligent based Automatic Herbicide Spraying System Abstract: Researchers have identified a way to address the health concerns linked with the standard technique of herbicide application, which is the focus of this article. They must be used properly to keep plants healthy during their growth and to eradicate undesirable plants, such as weeds. It is vital to carefully apply herbicides and other chemicals to avoid causing harm to plant growth. Artificial intelligence and the Internet of Things can assist us in creating and building an Autonomous Herbicide Spraying System that sprays herbicide autonomously (IoT). The objective of this research is to show how a moving average filter may be used to filter GPS data in order to enhance a robotic vehicle's self-driving system. Another advantage of this robot is that it can count weeds while simultaneously spraying insecticide. Additionally, the robot is equipped with a sensor that detects herbicide and transmits real-time data to the Internet of Things.

No. of Pages : 11 No. of Claims : 7





Controller General of Patents, Designs & Trade Marks

G.A.R.6 [See Rule 22(1)] RECEIPT



Date/Time 2021/11/01 22:13:37

Docket No 100959

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1					1	
2	202141050175	TEMP/E- 1/56866/2021- CHE	1600	40867	FORM 1	CONGESTION AVOIDANCE AND CONTROL IN 5G WIRELESS SENSOR NETWORK FOR CHAIN TOPOLOGY
3						
4	E- 12/4498/2021/CHE	202141050175	2500	40867	FORM 9	

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
	Online Bank Transfer		8200.00	

Total Amount : ₹ 8200

Amount in Words: Rupees Eight Thousand Two Hundred Only

₹ 8200 on account of Payment of fee for above mentioned Application/Forms.
 * This is a computer generated receipt, hecnce no signature required.





<u>FORM 2</u>

THE PATENT ACT 1970

(**39 OF 1970**)

AND

The patent rules, 2003

COMPLETE SPECIFICATION

(See section 10: rule 13)

TITLE OF INVENTION

CONGESTION AVOIDANCE AND CONTROL IN 5G WIRELESS SENSOR NETWORK FOR CHAIN TOPOLOGY

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PREAMBLE TO THE DESCRIPTION

COMPLETE

Following specification particularly describes the invention and the manner in which it is to be performed.

Technical field of invention:

Present invention relates to wireless sensor network and more particularly to method of construction and working of Congestion avoidance and control near sink in Wireless Sensor Network for chain topology.

Background of the present invention

In wireless sensor network there can be more than one hop between sensor nodes and sink. In this type of multi-hop network packets which are generated by sensor nodes can be relayed with the help of its neighboring nodes. In sensor networks traffic can be periodic or nonperiodic in nature When there are concurrent data transmissions then in case of single-hop network with periodic type of traffic congestion can occur in wireless sensor network because of radio channels vary with time and also channel quality depend on traffic density. In case of nonperiodic type of traffic bursts of messages can be generated when a particular event is occurred in the network. Hence it causes buffer overflow at the nodes and congestion in the network. In multi-hop network traffic has to travel through many radio channels. Because of time varying radio channel and traffic load in case of multi-hop network there are severe chances of packet drops and also waste of energy because of retransmissions of packets.

Objective of the invention:

Primary object of the present invention is to transmit the data which is generated by the sensor nodes to the sink through intermediate nodes. When a particular event is occurred then large amount of data can be transmitted to sink. It can lead to buffer overflow at the intermediate nodes and in turn congestion in the sensor network.

Summary of the invention

Detailed description of invention

Exemplary embodiments now will be described with reference to the accompanying drawings. The invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein; rather, these embodiments are provided so that this invention will be thorough and complete, and will fully convey its scope to those skilled in the art.

Present invention is the Process Congestion avoidance and control in Wireless Sensor Network for chain topology mainly comprising of following steps:

A. Identification of the parameters responsible for congestion

Identify the parameters which are responsible for the traffic congestion in the network. These parameters may have adverse effect on the wireless sensor network performance.

B. Root cause analysis of the congestion parameters

After finding the parameters the root cause analysis for the congestion in the network must be carried out on it.

C. Designing step wise process to counteract the above mentioned parameter

Effective congestion control mechanism will be proposed to overcome the problems found in the root cause analysis. The proposed solution will be used to control the congestion and also will give better performance.

D. Implement / simulate the above proposed design

The proposed methodology for the controlling and reducing the congestion problem must be properly tested by the simulation.

E. To have a performance measurement of the strategies proposed above

The simulated results will be checked against the required results. The performance measurement will be carried out on the simulated results.

I/We claim,

- 1. A process for congestion avoidance and control in wireless sensor network for chain topology, comprising of following steps;
 - a. at sensor nodes parameters responsible for the traffic congestion identified through checking the buffer occupancy wherein further a root cause analysis is implemented;
 - b. once the congestion is detected in the sensor network, then congestion notification bit explicitly set in the outgoing packet;
 - c. and after receiving the congestion notification packet, a previous node adjusts the reporting rate according to an adaptive configuration which is executing on MSP 430 processor.

ABSTRACT

The present invention relates to a congestion avoidance and control in 5g wireless sensor network for chain topology. In Wireless Sensor Networks (WSNs) there are one or more sinks or base stations and many sensor nodes distributed over wide area. Sensor nodes have restricted power. Sensor nodes gather specific data and transmit gathered data to sink when a particular event is occurred. These sensor nodes can transmit large volume of data towards the sink. It can result in buffer overflow at the nodes. Hence there is congestion in the sensor network around the sink. Congestion in the network may cause packet drops and energy waste. Hence it shortens the lifetime of sensor nodes. So congestion in sensor network needs to be controlled to decrease the waste of energy and also to increase the lifetime of sensor nodes.

FORM 1 THE PATENTS ACT, 1970 (39 of 1970) & THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT [See sections 7,54 & 135 and rule 20(1)]

(FOR OFFICE USE ONLY)

Application No.: Filing Date: Amount of Fee Paid: CBR No.: Signature:

1. APPLICANT(S):

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10	Mrs. V. Revathy	India	Assistant Professor, Department of Computer Science and Engineering, Arasu Engineering	India	Tamil Nadu

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	Col 612	ege, Kumbakonam- 501		
3. TITLE OF THE INVENTION SENSOR NETWORK FOR CH	I: CONGESTIO AIN TOPOLOG	N AVOIDANCE ANI Y	D CONTRO	DL IN 5G WIRELESS
4. ADDRESS FOR CORRESPO AUTHORISED PATENT AGEN Associate Professor, Department of Communication Engineering, Nall College, Hyderabad – 500088, Tel	NDENCE OF A NT IN INDIA: of Electronics and aMalla Reddy En angana, India	PPLICANT / Teleph Fax No gineering E-mail	oone No.: o.: l: mukesh.re:	search24@gmail.com
5. PRIORITY PARTICULARS	OF THE APPLIC	CATION(S) FILED I	N CONVE	NTION COUNTRY:
Sr.No. Country Number	Filing Da	e Name of the	Applicant	Tilte of the Invention
International Application PCT// 7. PARTICULARS FOR FILING	Number G DIVISIONAL	by th	ne Receiving	g Office
Original (first) Application	n Number	Date of Filing of	of Original ((first) Application
8. PARTICULARS FOR FILING Main Application / Patent	G PATENT OF A Number:	DDITION: Date of Fil	ling of Main	Application
9. DECLARATIONS:				
(I) Declaration by the inventor I/We ,Dr. M. Senthil Kumar,D Mahaboob Subani Shaik,Dr. A Sel Shivkhumar,Mrs. V. Revathy, is/ar applicant(s) herein is/are my/our as	or(s) Dr. M. Monisha,Dr va Reegan,Dr. Al- e the true & first i ssignee or legal re	R Palson Kennedy, Agu Thillaivanan,Dr. R nventor(s) for this inv presentative.	Ar. P. Nelson X. Arulanance ention and d	a Kingsley Joel,Mr. lam,Mr. MDR. leclare that the
(a) Date:				
(b) Signature(s) of the invento	r(s):			
	× /			

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(c) Name(s): Dr. M. Senthil Kumar, Dr. M. Monisha, Dr. R Palson Kennedy, Mr. P. Nelson Kingsley Joel, Mr. Mahaboob Subani Shaik, Dr. A Selva Reegan, Dr. Alagu Thillaivanan, Dr. K. Arulanandam, Mr. MDR. Shivkhumar, Mrs. V. Revathy

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) :

(c) Name(s) of the singnatory: Dr. M. Senthil Kumar, Dr. M. Monisha, Dr. R Palson Kennedy, Mr. P. Nelson Kingsley Joel, Mr. Mahaboob Subani Shaik, Dr. A Selva Reegan, Dr. Alagu Thillaivanan, Dr. K. Arulanandam, Mr. MDR. Shivkhumar, Mrs. V. Revathy

(iii) Declaration by the applicant(s)

- The Complete specification relationg to the invention is filed with this application.
- I am/We are, in the possession of the above mentioned invention.
- There is no lawful ground of objection to the grant of the Patent to me/us.

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName
1	STATEMENT OF UNDERTAKING (FORM 3)	form 3.pdf
2	DECLARATION OF INVENTORSHIP (FORM 5)	form 5.pdf
3	COMPLETE SPECIFICATION	form 2.pdf

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hering are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this(Final Payment Date): -----

Signature:

FORM 9

THE PATENT ACT, 1970 (39 of 1970) &

THE PATENTS RULES, 2003

REQUEST FOR PUBLICATION

[See section 11A (2) rule 24A]

I/We Dr. M. Senthil Kumar, Dr. M. Monisha, Dr. R Palson Kennedy, Mr. P. Nelson Kingsley Joel, Mr. Mahaboob Subani Shaik, Dr. A Selva Reegan, Dr. Alagu Thillaivanan, Dr. K. Arulanandam, Mr. MDR. Shivkhumar, Mrs. V. Revathy hereby request for early publication of my/our [Patent Application No.] TEMP/E-1/56866/2021-CHE

Dated 01/11/2021 00:00:00 under section 11A(2) of the Act.

Dated this(Final Payment Date):------Signature Name of the signatory

To, The Controller of Patents, The Patent Office, At Chennai

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20 August 2021

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Application number 2021105809 **Applicant name** RAJANI B, BALASUBRAMANIAM D, SUNITHA D, RAMKUMAR PRABHU M, GNANASUNDARA JAYARAJA B, MANJUNATH T.C, POONGODI S, MADHURIKKHA S, KARTHIKEYAN S, DILIP SINGH | GOW0016I01AU Your reference Your progress Filed Ø Application is filed Dear Applicant, Thank you for filing an innovation patent application with IP Acceptance and Grant Australia. Application is accepted and patent granted Your innovation patent application number is: 2021105809 Examination Patent is being examined Your filing date is: 18 August 2021 What you need to do now Certification Patent is certified (patent is now enforceable) Check your details - attached to this letter are the details of your application. Please review your details to ensure Renewal they are correct. Renewal fees required to maintain patent (fees are due annually- please refer to the 'paid to' date in AusPat for What will happen next vour next due date) Need help? If your application is in order – your innovation patent will be accepted and granted within four weeks of your Talk to Alex, our virtual assistant filing date. If there are any outstanding matters, we will contact you. For further information on this topic, visit If the filing fee has not been paid - an Invitation To Pay our website. will be issued to you. Make an enquiry or provide feedback on



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Things to be aware of

- Please note that the filing of this application does not entitle you to claim that a patent has been granted at this stage.
- Please quote your application number when contacting IP Australia or making payments.

Details of your patent application can be viewed on <u>AusPat</u>, our Australian patent search database.

Yours sincerely,

IP Australia

Innovation patent applicat	tion details
Application number:	2021105809
Title:	SMART SPECTACLES WITH DISPLAY AND REMINDER TECHNIQUES
Your reference:	GOW0016I01AU

Documents filed

A complete specification comprising:

- Description
- Claim(s)
- Drawing(s)

An abstract has also been filed.

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Priority details	
Priority details:	None
Relevant dates	
Filing date:	18 August 2021
Date of patent:	18 August 2021
Expiry date:	18 August 2029



OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 29/2021	शुक्रवार	दिनांक: 16/07/2021
ISSUE NO. 29/2021	FRIDAY	DATE: 16/07/2021

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 29/2021 Dated 16/07/2021

(22) Date of filing of Application :13/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : IOT BASED CROP MONITORING SCHEME USING SMART DEVICE WITH MACHINE LEARNING METHODOLOGY

:G06Q0050020000, H04L0029080000, G06Q0010040000, A01G0025160000, H04N0007180000	 (71)Name of Applicant : 1)Dr. SHYLAJA S L Address of Applicant :PRINCIPAL, EAST WEST POLYTECHNIC, NO. 63, OFF MAGADI ROAD, VISHWANEEDAM POST, BEL LAYOUT, ANJANA NAGAR, BEL LAYOUT, PHASE 2, BEDARAHALLI, BENGALURU, KARNATAKA 560091 Karnataka India
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	:G06Q0050020000, H04L0029080000, G06Q0010040000, A01G0025160000 :NA :NA :NA :NA :PCT// :01/01/1900 : NA :NA :NA :NA :NA :NA

(57) Abstract :

IoT-based crop monitoring scheme using a smart device with machine learning methodology. The proposed invention is the Internet of Things (IoT) is the most considerable medium for all smart applications, in which it provides huge support to the agricultural industry in a fine manner. The proposed invention is intended to design the new machine learning-enabled Smart Internet of Things medium to support the agricultural field in a proper way. In the proposed invention an Intelligent Crop Monitoring Device (ICMD) is introduced to monitor the crops over the agricultural field in a 24x7 manner. This kind of monitoring device enhances the production and quality-of-service of agriculture as well as related products. The data acquired from the agriculture fields are temperature, humidity, and soil moisture level, in which these records are passed to the server unit by using an IoT module associated with the ICMD. The data available on the server can easily be monitored by the farmer from anywhere at any time. The learning model predicts the status of the crop in the field by means of analyzing the input acquired from the real-time testing input and report that to the respective farmer for taking appropriate action. For all this system is useful to the agricultural field and provides good support to farmers to monitor the crops over the agricultural field from the remote place even. By using this proposed scheme, the farmers can make accurate and efficient crop management decisions with the use of results obtained by using the Smart Device called ICMD.

No. of Pages : 21 No. of Claims : 6

FORM 1 THE PATENTS ACT, 1970 (39 of 1970) & THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT [See sections 7,54 & 135 and rule 20(1)]

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Application No.: Filing Date: Amount of Fee Paid: CBR No.: Signature:

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7/13/2021

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3. TITLE OF THE INVENTION: IOT BASED CROP MONITORING SCHEME USING SMART DEVICE WITH MACHINE LEARNING METHODOLOGY

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5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:

Sr.No. Country Ap	pplication Number	Filing Date	Name of the Applicant	Tilte of the Invention
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6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) Application Number Date of Filing of Original (first) Application

8. PARTICULARS FOR FILING PATENT OF ADDITION:

Main Application / Patent Number:	Date of Filing of Main Application
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9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We ,Dr. SHYLAJA S L,Dr. SHAIK FAIROOZ,Dr. J. VENKATESH,Dr. D. SUNITHA,Dr. R. PRAKASH RAO,Dr.M.RAMKUMAR PRABHU, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) of the inventor(s):

(c) Name(s): Dr. SHYLAJA S L,Dr. SHAIK FAIROOZ,Dr. J. VENKATESH,Dr. D. SUNITHA,Dr. R. PRAKASH RAO,Dr.M.RAMKUMAR PRABHU

(ii) Declaration by the applicant(s) in the convention country

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

3/2021	
(a) Date:	
(b) Signature(s) :	
(c) Name(s) of the singnatory: Dr. SHYLAJA S L,Dr. SHAIK FAIROOZ,Dr. SUNITHA,Dr. R. PRAKASH RAO,Dr.M.RAMKUMAR PRABHU	. J. VENKATESH,Dr. D.
(iii) Declaration by the applicant(s)	
 The Complete specification relationg to the invention is filed with this I am/We are, in the possession of the above mentioned invention. There is no lawful ground of objection to the grant of the Patent to me 	application. e/us.
10 FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:	
10. TOLEO WING ARE THE ATTACHWENTS WITH THE ATTEICATION.	
Sr. Document Description	FileName
Sr. Document Description I/We hereby declare that to the best of my/our knowledge, information and best at the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request that a patent may be granted to me/us the stated hering are correct and I/We request thering are correct and I/W	FileName belief the fact and matters for the said invention.
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Sr. Document Description I/We hereby declare that to the best of my/our knowledge, information and bestated hering are correct and I/We request that a patent may be granted to me/us and this (Final Payment Date):	FileName belief the fact and matters for the said invention. Signature:
Sr. Document Description I/We hereby declare that to the best of my/our knowledge, information and bestated hering are correct and I/We request that a patent may be granted to me/us and this (Final Payment Date):	FileName belief the fact and matters for the said invention. Signature: Name: Gowthami S
Sr. Document Description I/We hereby declare that to the best of my/our knowledge, information and bestated hering are correct and I/We request that a patent may be granted to me/us and this (Final Payment Date): To The Controller of Patents	FileName belief the fact and matters for the said invention. Signature: Name: Gowthami S
Sr. Document Description I/We hereby declare that to the best of my/our knowledge, information and be stated hering are correct and I/We request that a patent may be granted to me/us and this (Final Payment Date): To The Controller of Patents The Patent office at CHENNAI	FileName belief the fact and matters for the said invention. Signature: Name: Gowthami

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FORM 2

THE PATENTS ACT, 1970

(**39 OF 1970**)

AND

THE PATENT RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

Title of Invention:

"IOT BASED CROP MONITORING SCHEME USING SMART DEVICE

WITH MACHINE LEARNING METHODOLOGY"

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The following specification describes the invention and the manner in which it is to

be performed

FIELD OF INVENTION

The present invention relates to the field of designing and implementing an IOT based crop monitoring scheme using smart devices along with the machine learning methodology. The proposed invention focuses on supporting the farmers and help them make accurate and efficient crop management decisions with help of results obtained by using the smart device called intelligent crop monitoring device (ICMD).

BACKGROUND OF INVENTION

- **[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] In India, more than 78% of people belong to the agricultural field and related jobs, so that agriculture plays a vital role in the Indian economy. Similarly, many other countries dependent on this same field, and in rural environments agriculture is a self-employment job to many youngsters as well as it helps to enhance the interest of earn via domestic animals with respect to the food material preparation to the animals based on the agricultural wastes. Changes in climate might have a severe influence on agricultural production, raising water requirements as well as constraining agricultural output in places that are in need of irrigation. Desalination plants, moisture farmland, and subsoil watering are just a few of the strategies used to create healthier harvests that are inefficient with water consumption.
- [0003] To ensure effective water consumption, a computerized system is built. In the method, farmers do not have to physically direct water supply into fields; the technology does so successfully. In literature, there are several researchers who introduced lots of systematic agricultural planning, but all are struck up with certain extends. The traditional crop monitoring system utilizes the benefits of water supply through a mobile

SMS-based system as well as the auto power on and power off principles to agricultural land. But all these features are purely manual dependent and the expense for such systems is high in order to implement that in farmlands. These kinds of traditional farming systems lead to lots of water and electric resource wastages. The power supply requirements of such devices are huge and they cannot operate during power failure periods. So, that conventional agricultural monitoring devices need Solar PV panels for acquiring power sources from sunlight and operate accordingly in power failure situations. But these all solutions are coming to one single point called cost expensiveness.

- [0004] In order to avoid these issues a powerful and robust agricultural monitoring system is required with the presence of new technologies. The logic of the Internet of Things (IoT) provides huge support to a variety of smart applications to operate with high efficiency based on the support of internet-enabled services. With respect to the adaptation of such powerful internet-enabled devices, smart technology is designed to monitor the agricultural field in an efficient manner without any manual interventions.
- [0005] A number of different types of crop monitoring systems are known in the prior art. For example, the following patents are provided for their supportive teachings and are all incorporated by reference.
- **[0006]** CN104852989A The present invention relates to a smart agriculture monitoring system based on a Web of Things. The system includes a CPU, connected with a smart sensor, a smart adjusting and controlling device, a real-time image, and video monitoring apparatus, a transmission apparatus, an alarm system, and a terminal; the CPU is connected with the smart sensor, the smart adjusting and controlling device, the real-time image and video monitoring apparatus, the transmission apparatus, the alarm system and the terminal via the wireless network controlling system; and the smart agriculture monitoring system is powered via a solar energy powering apparatus.

The Web of Things agriculture smart detection and control system can greatly increase manufacturing and managing efficiency, save manpower, and can conveniently provide a strong scientific data theoretical support to aspects such as various agricultural fields or researches; and the important function thereof is obvious in the highly automated and intelligent zed society.

- **[0007]** WO2014107797A1 A mesh-based wireless network (10) of sensor/actuator devices I, D, T for an agricultural production area involves battery-powered sensors and actuators deployed under or within the foliage for broadcast communication with at least one repeater R according to broadcast time slots. The repeaters R are mounted above the vegetation canopy so as to be powered by solar panels. The repeaters R form a mesh network for routing data and commands to and from the sensors and actuators and at least one gateway GW. The gateway communicates over a cellular network with a remote agricultural management server and database.
- [0008] CN105573277A The invention discloses an Internet of Things intelligent irrigation system based on cloud computing. The system comprises an intelligent irrigation cloud service platform, an intelligent irrigation cloud data centre, an Internet of Things terminal management controller, and an irrigation device, the irrigation device, and a sensor are both connected with the Internet of Things terminal management controller, the Internet of Things terminal management controller is connected with the intelligent irrigation cloud data centre via a wireless network, a user logs in the intelligent irrigation cloud service platform for obtaining service via the network, the intelligent irrigation cloud service platform is deployed in the intelligent irrigation cloud data centre, and the intelligent irrigation cloud service platform provides service for the user. According to the system, the conception is novel, advanced cloud computing, the Internet of Things, big data, mobile application, and the artificial intelligence technology are employed, the system is simple,

easy, and convenient, the timeliness is good, the networking is convenient, the reliability is high, the transmission rate is fast, and the advanced Internet of Things intelligent irrigation system based on cloud computing is provided for the application and promotion of the technologies of cloud computing and Internet of Things in the water conservancy industry.

- [0009] The proposed invention is to introduce a new smart device called Intelligent Crop Monitoring Device (ICMD), which utilizes the logic of machine learning to perform perfect farming strategies with excellent predictions. A new machine learning strategy is designed over this paper called Modified Learning-based Field Analysis Strategy (MLFAS), in which it is derived from the classical machine learning strategy called Convolutional Neural Network. The smart device of ICMD is built with two smart agricultural field monitoring sensors such as Temperature and Humidity measurement sensor and the Soil Moisture Level Identification Sensor. The smart device of ICMD requires only a 5v DC power source for the entire operation, in which all these sensors are controlled by the IoT module presented into it. The logic of both the sensors and the presence of the Internet of Things in it will be explained in a clear manner over the following summary.
- **[0010]** The above information is presented as background information only to assist with an understanding of the present disclosure. No determination has been made, no assertion is made, and as to whether any of the above might be applicable as prior art with regard to the present invention.
- **[0011]** In the view of the foregoing disadvantages inherent in the known types of crop monitoring system now present in the prior art, the present invention provides an improved system. As such, the general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new and improved IoT-based crop monitoring scheme using a smart device with machine learning methodology that has

all the advantages of the prior art and none of the disadvantages.

SUMMARY OF INVENTION

- [0012] In the view of the foregoing disadvantages inherent in the known types of crop monitoring scheme now present in the prior art, the present invention provides an improved and IOT based crop monitoring scheme. As such, the general purpose of the present invention, which will be described subsequently in greater detail, is to provide a new and improved IoT-based crop monitoring scheme using a smart device with machine learning methodology which has all the advantages of the prior art and none of the disadvantages.
- **[0013]** The proposed invention is focused on designing a novel agricultural monitoring system based on a machine learning strategy with respect to the latest technologies such as the Internet of Things and smart sensors. This approach introduced a new machine learning-enabled agricultural field monitoring tool called Intelligent Crop Monitoring Device (ICMD), in which it is placed into the Agri-fields in a random manner as approximately a single ICMD device can cover up to 20 feet distance. The readings accumulated from the smart device are communicated to the centralized remote IoT server by using the IoT module presented into the ICMD. In the server end, a new machine learning strategy is executed called Modified Learning-based Field Analysis Strategy (MLFAS), in which it accumulates the data from the crop field and analyzes it based on the trained model.
- [0014] Yet another aspect of the proposed invention is that the training model is generated based on the threshold values generated for identifying the emergency needs over agricultural fields. All the received values from the agricultural land are monitored and they will be appended to the training model with proper labeling for the further testing process. The testing records acquired from the ICMD over the remote server end will be cross-validated with respect to these trained models and the emergency cases will be reported properly to the farmers

by using Global System for Mobile Communications (GSM) module connected with the ICMD. In which the alert will be sent to the respective farmer with location details as well by using the Global Positioning System (GPS) module.

- [0015] Yet another important aspect of the said invention is that the soil moisture sensor takes care of crop watering management, in which it switches on and off the water pump according to the needs of water to the agricultural land without any human intervention. The following system flow diagram illustrates the overall process of the proposed MLFAS model in a clear manner.
- [0016] In this respect, before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and to the arrangements of the components set forth in the following description or illustrated in the various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.
- [0017] These together with other objects of the invention, along with the various features of novelty that characterize the invention, are pointed out with particularity in the disclosure. For a better understanding of the invention, its operating advantages, and the specific objects attained by its uses, reference should be had to the accompanying drawings and descriptive matter in which there are illustrated preferred embodiments of the invention.

BRIEF DESCRIPTION OF DRAWINGS

[0018] The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

Figure 1 illustrates the ICMD Block Diagram of an IOT based crop monitoring scheme using a smart device with machine learning methodology, according to the embodiment herein.

Figure 2 illustrates the DHT11 Sensor with Resistor of an IOT based crop monitoring scheme using a smart device with machine learning methodology, according to the embodiment herein.

Figure 3 illustrates the Soil Moisture Sensor of an IOT based crop monitoring scheme using a smart device with machine learning methodology, according to the embodiment herein.

Figure 4 illustrates the MLFAS Work Flow Diagram of an IOT based crop monitoring scheme using a smart device with machine learning methodology, according to the embodiment herein.

Figure 5 illustrates the Frame Success Ratio of an IOT based crop monitoring scheme using a smart device with machine learning methodology, according to the embodiment herein.

Figure 6 illustrates the Data Ratio Analysis of an IOT based crop monitoring scheme using a smart device with machine learning methodology, according to the embodiment herein.

Figure 7 illustrates the Alert Notification Analysis with respect to Identified Abnormal Data of an IOT based crop monitoring scheme using a smart device with machine learning methodology, according to the embodiment herein.

DETAILED DESCRIPTION OF INVENTION

[0019] In the following detailed description, reference is made to the accompanying drawings which form a part hereof, and in which is shown by way of illustration specific embodiments in which the invention may be practiced. These embodiments are described in sufficient detail to enable those skilled in the art to practice the invention, and it is to be understood that the embodiments may be combined, or that other embodiment may be utilized, and that structural and logical changes may be made without departing from the spirit and scope of the present invention. The following detailed description is, therefore, not to be

taken in a limiting sense, and the scope of the present invention is defined by the appended claims and their equivalents.

[0020] While the present invention is described herein by way of example using several embodiments and illustrative drawings, those skilled in the art will recognize that the invention is neither intended to be limited to the embodiments of drawing or drawings described nor intended to represent the scale of the various components. Further, some components that may form a part of the invention may not be illustrated in certain figures, for ease of illustration, and such omissions do not limit the embodiments outlined in any way. It should be understood that the drawings and detailed description thereto are not intended to limit the invention to the particular form disclosed, but on the contrary, the invention covers all modification/s, equivalents, and alternatives falling within the spirit and scope of the present invention as defined by the appended claims. The headings are used for organizational purposes only and are not meant to limit the scope of the description or the claims. As used throughout this description, the word "may" be used in a permissive sense (i.e., meaning having the potential to), rather than the mandatory sense (i.e., meaning must). Further, the words "a" or "a" mean "at least one" and the word "plurality" means one or more unless otherwise mentioned. Furthermore, the terminology and phraseology used herein are solely used for descriptive purposes and should not be construed as limiting in scope. Language such as "including," "comprising," "having," "containing," or "involving," and variations thereof, is intended to be broad and encompass the subject matter listed thereafter, equivalents, and any additional subject matter not recited, and is not intended to exclude any other additives, components, integers or steps. Likewise, the term "comprising" is considered synonymous with the terms "including" or "containing" for applicable legal purposes. Any discussion of documents acts, materials, devices, articles, and the like are included in the specification solely for the purpose of providing a context for the present
invention.

- [0021] In this disclosure, whenever an element or a group of elements is preceded with the transitional phrase "comprising", it is understood that we also contemplate the same element or group of elements with transitional phrases "consisting essentially of, "consisting", "selected from the group consisting of", "including", or "is" preceding the recitation of the element or group of elements and vice versa.
- [0022] The proposed invention is intended to design the new machine learning-enabled Smart Internet of Things medium to support the agricultural field in a proper way. In this paper, an Intelligent Crop Monitoring Device (ICMD) is introduced to monitor the crops over the agricultural field in a 24x7 manner. This kind of monitoring device enhances the production and quality-of-service of agriculture as well as related products. This paper associate an innovative technology to the Smart Device called Machine Learning, but instead of using the classical learning schemes, this approach introduced a new scheme called Modified Learning-based Field Analysis Strategy (MLFAS). This approach is inspired by the classical machine learning scheme called Convolutional Neural Network (CNN), in which the proposed Smart Device called ICMD accumulates the real-time agricultural field details and passes them to the monitoring unit for manipulation. The manipulation end maintains the data into the server unit, in which the machine learning model called MLFAS acquires the received field data and processes it based on the training samples. The training samples are nothing but data collected from the agriculture field, the collection of received data are maintained into the server end for processing, the proposed MLFAS model manipulates the data and is created as a model for further testing. The newly arrived data from the field is considered as testing data and cross-validate that data into the trained model. The data acquired from the agriculture fields are temperature, humidity, and soil moisture level, in which these records are passed to the server unit by

using an IoT module associated with the ICMD. The data available on the server can easily be monitored by the farmer from anywhere at any time. The learning model predicts the status of the crop in the field by means of analyzing the input acquired from the real-time testing input and report that to the respective farmer for taking appropriate action. For all this system is useful to the agricultural field and provides good support to farmers to monitor the crops over the agricultural field from the remote place even. By using this proposed scheme, the farmers can make accurate and efficient crop management decisions with the use of results obtained by using the Smart Device called ICMD.

- **[0023]** In these modern days, everyone belongs to Smart Devices and many of them are building with communication technologies in association with internet-enabled services. The classical internet-enabled medium provides connectivity in a low range, as well as the cost expensiveness for such technology, is more. Hence the powerful Internet of Things (IoT) is introduced to provide internet services to smart devices without any interventions. The logic of the Internet of Things is enabling the internet source to the associated device and raises a bridge between the client end and the server end. In this agricultural monitoring system, the adaptation of this IoT is helpful in many ways such as manual intervention-free agricultural field monitoring, automatic watering system, and water flow management.
- [0024] This kind of IoT-enabled technology reduces human involvement in the complex as well as the complexity of doing such hard things is highly eliminated. So, that many youngsters are interested to do such agriculture business nowadays with the help of such smart devices. The proposed smart device called Intelligent Crop Monitoring Device (ICMD) utilizes the features of such Internet of Things to transfer the agricultural field data to the remote server within a fraction of a second in a periodical manner. Once the data is reached into the server end, the scripting function evaluates the data with respect to machine learning

formulations. The results of such evaluations are reported properly to the respective farmer without any delay. This is helpful to the farmers to monitor the agricultural field from anywhere in the world without any region-oriented limitations.

- [0025] The DHT11 is a less expensive digital temperature and humidity monitoring sensor with a low-complex circuit design and measures the atmospheric air through the use of a capacitance temperature measurement and a resistor as well as outputs a signal on the data pin in digital format. This sensor does not require any analog pins to operate and it's quite straightforward to use, however, data collection demands precision scheduling. Because it updates data every two seconds, input signals could become up to two seconds old whilst using the Adafruit package. This sensor includes a 4.7 K or else 10 K resistor which is used as a pull-up resistor between the digital pins and power supply.
- [0026] This sensor estimates the level of moisture presents in the soil and report that to the respective controller instantly. Capacitive coupling is used to determine the water content over the soil surface and by estimating the dielectric conductivity of the soil, which is a method of water level estimation over the soil space. Simply insert this robust sensing device into the soil to be analyzed and the device reports the volume of water substance level over the soil surface in percentages. This sensor can be used to read both analog and digital values according to the convenience of the developer. The remaining two pins are used for a power source such as GND and VCC, in which GND indicates the ground and VCC indicates the 5v DC power supply.
- **[0027]** The following algorithm illustrates the logical flow of the proposed approach called Modified Learning-based Field Analysis Strategy in a clear manner.

Algorithm: Modified Learning-based Field Analysis Strategy

Input: Real-Time Agricultural Data {Temperature (T), Humidity (H), Soil Moisture Level (W) and Location (L)}

Output: Prediction and Accuracy Ratio of Agricultural Crop

1. Import required system libraries to manipulate the agricultural land details.

2. Collect the agri-field data from the real-time farmland (T, H, W, and L).

3. Extract the details with respect to commas and segregate them in separate array indexing for manipulation.

4. Load the dataset, in which it is already trained by using learning strategy and the dataset is dynamically created based on the real-time data accumulated from the agricultural land.

5. Acquire the threshold levels of the dataset for each parameter such as T, H, and W.

6. Cross-validate the testing parameters with an acquired threshold.

7. If the threshold level indicates as Normal, then store the testing records into the server and append them to the dataset model for further reference.

8. If the threshold level indicates as Abnormal, then store the testing records into the server and alert the respective farmer regarding that with the corresponding ICMD location (L).

9. Append the abnormal details into the trained model with proper labeling.

10. Check the level of parameter 'W' and if it indicates LOW means trigger the corresponding relay ON to switch the water pump or else switch off the water pump.

[0028] Reference will now be made in detail to the exemplary embodiment of the present disclosure. Before describing the detailed embodiments that are in accordance with the present disclosure, it should be observed that the embodiment resides primarily in combinations arrangement of the system according to an embodiment herein and as exemplified in FIG. 1

- **[0029]** Figure 1 illustrates the ICMD Block Diagram of IoT based crop monitoring scheme using a smart device with machine learning methodology. Portrays the view of the proposed Smart Device called ICMD's block diagram in a clear manner.
- **[0030]** Figure 2 illustrates the DHT11 Sensor with Resistor of an IoTbased crop monitoring scheme using a smart device with machine learning methodology. The perception of the DHT11 sensor and the respective resistor used to operate the sensor in a clear manner.
- **[0031]** Figure 3 illustrates the Soil Moisture Sensor of IoT-based crop monitoring scheme using a smart device with machine learning methodology. The perception of the Soil Moisture sensor and the associated specifications used to operate the sensor in a clear manner.
- [0032] Figure 4 illustrates the MLFAS Work Flow Diagram of IoT based crop monitoring scheme using a smart device with machine learning methodology.
- **[0033]** Figure 5 illustrates the Frame Success Ratio of IoT based crop monitoring scheme using a smart device with machine learning methodology. The frame success ratio of the proposed approach, in which it shows the overall data frames accumulated from the ICMD and estimates the number of frames which are successfully processed over the server end as well as the number of frames that failed to receive over the server end.
- [0034] Figure 6 illustrates the Data Ratio Analysis of an IoT-based crop monitoring scheme using a smart device with machine learning methodology. the data ratio analysis of the proposed approach, which it shows the normal agricultural field data acquired from the Intelligent Crop Monitoring Device and the quantity of abnormal field data received from the ICMD. This analysis is useful for estimating the dataset training accuracy level, in which the number of data presented into the dataset determines the quality of prediction over the outcome.

- [0035] Figure 7 illustrates the Alert Notification Analysis with respect to Identified Abnormal Data of IoT-based crop monitoring scheme using a smart device with machine learning methodology. portrays a graphical representation of the proposed approach performance estimation with respect to the alert notification ratio based on time evaluations in seconds. In this case, the metric is evaluated by counting the number of normal data occurrences raised from the smart device called ICMD and it is placed over the desired server location. So, that the respective notification sends to the farmer for particular time intervals. This estimation is performed by detecting the abnormal data ratio from the real-time agricultural field information, in which it detects the appropriate number of farmers who receive alerts in the proper manner. These temporal values are studied and illustrated in-depth in the following graphical scenario and the estimations display the average time ratio of the number of abnormal events in occurred in a specific period. It will be iterated from 1 to 5, while the y-axis displays the total number of identified abnormal events, the associated alert notification messages delivered to farmers, and the total number of failures.
- [0036] In the following description, for the purpose of explanation, numerous specific details are set forth in order to provide a thorough understanding of the arrangement of the system according to an embodiment herein. It will be apparent, however, to one skilled in the art that the present embodiment can be practiced without these specific details. In other instances, structures are shown in block diagram form only in order to avoid obscuring the present invention.

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Date: 12/07/2021

WE CLAIM

- IoT based crop monitoring scheme using a smart device with machine learning methodology comprises of DHTIL sensor;
 Soil moisture sensor;
 IoT module with the controller;
 GPS and GSM module;
 And Remote IoT server.
- IoT-based crop monitoring scheme using a smart device with machine learning methodology according to claim 1, comprises of a DHTI1 sensor wherein the temperature and humidity of the specific crop fields.
- IoT-based crop monitoring scheme using a smart device with machine learning methodology according to claim 1, comprises of soil moisture sensor, wherein the soil moisture sensor is used to measure the moisture content of the soil in a particular crop field.
- 4. IoT based crop monitoring scheme using a smart device with machine learning methodology according to claim 1, includes an IOT module wherein IOT module facilitates communication with uses module and she IOT modules comprises of a controller which is an inbuilt- controller responsible for establishing and coordinating the various activities of proposed smart device.
- 5. IoT-based crop monitoring scheme using a smart device with machine learning methodology according to claim 1, includes GSM and GPS unit wherein the GSM and GPS unit facilitates the IoT based subscriber module and location positioning and tracking respectively.

6. IoT-based crop monitoring scheme using a smart device with machine learning methodology remote IoT server according to claim 1, comprises of IoT server wherein the server facilitates the communication between the sensor and saves the details regarding the crops in it.

GOWTHAMI S

Registered Patent Agent #325, 17th Main, 'B' Block, Vijayanagar 3rd Stage, Mysore-570030 Email: sgowthami12@gmail.com Digitally signed

Date: 12/07/2021

ABSTRACT

IOT BASED CROP MONITORING SCHEME USING SMART DEVICE WITH MACHINE LEARNING METHODOLOGY

IoT-based crop monitoring scheme using a smart device with machine learning methodology. The proposed invention is the Internet of Things (IoT) is the most considerable medium for all smart applications, in which it provides huge support to the agricultural industry in a fine manner. The proposed invention is intended to design the new machine learning-enabled Smart Internet of Things medium to support the agricultural field in a proper way. In the proposed invention an Intelligent Crop Monitoring Device (ICMD) is introduced to monitor the crops over the agricultural field in a 24x7 manner. This kind of monitoring device enhances the production and quality-of-service of agriculture as well as related products. The data acquired from the agriculture fields are temperature, humidity, and soil moisture level, in which these records are passed to the server unit by using an IoT module associated with the ICMD. The data available on the server can easily be monitored by the farmer from anywhere at any time. The learning model predicts the status of the crop in the field by means of analyzing the input acquired from the real-time testing input and report that to the respective farmer for taking appropriate action. For all this system is useful to the agricultural field and provides good support to farmers to monitor the crops over the agricultural field from the remote place even. By using this proposed scheme, the farmers can make accurate and efficient crop management decisions with the use of results obtained by using the Smart Device called ICMD.



Fig.1 ICMD Block Diagram



Fig.2 DHT11 Sensor with Resistor

GOWTHAMI S

Dr. SHYLAJA S L Dr. SHAIK FAIROOZ Dr. J. VENKATESH Dr. D. SUNITHA Dr. R. PRAKASH RAO Dr.M.RAMKUMAR PRABHU Total Sheets 4 Sheets 2 of 4



Fig.3 Soil Moisture Sensor



Fig.4 MLFAS Work Flow Diagram

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Total Sheets 4 Sheets 3 of 4



Overall Data (bytes) Success (%) Failure (%)

Fig.5 Frame Success Ratio



Fig.6 Data Ratio Analysis

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Total Sheets 4 Sheets 4 of 4

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Fig. 7 Alert Notification Analysis with respect to Identified Abnormal Data

GOWTHAMI S

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/02/2022

(43) Publication Date : 25/02/2022

(54) Title of the invention : IoT Based Secured and Energy- Efficient Routing Protocols using Wireless Sensor Networks (WSNs)

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:H04W0084180000, H04W0052020000, H04L0029060000, H04W004380000 :PCT// 01/01/1900 : NA :NA :NA :NA :NA :NA	 (71)Name of Applicant : 1)Ms.B.Jeyapoornima Address of Applicant : Assistant Professor Department of ECE R.M.K. Engineering College, Kavaraipettai, Gummidpoondi Taluk Pin: 601206 State: Tamilnadu Country: India 2)Dr.G.Charulatha 3)Dr.M.Shobana 4)Mr.C.GOKUL PRASAD 5)Dr.Rama Abirami K 6)Dr.Konguvel E 7)Mrs. JUSTINA PRINCY THILAGAVATHY James William 8)Mr.Sathiayandrakumar Srinivasan 9)Dr. R RAMYA 10)Ms Muruga Priya Palanisamy Name of Applicant : NA Address of Applicant : NA 7(2)Name of Inventor : 1)Ms.B.Jeyapoornima Address of Applicant : Assistant Professor Department of ECE R.M.K. Engineering College, Kavaraipettai, Gummidpoondi Taluk Pin: 601206 State: Tamilnadu Country: India 2)Dr.G.Charulatha Address of Applicant : Assistant Professor Department of ECE, Peri Institute of Technology, NO1, Mamivakkam, Chennai Pin: 600 048, State: Tamilnadu Country: India 3)Dr.M.Shobana Address of Applicant : Assistant Professor Department of ECE, Peri Institute of Technology Saravanampatti Post Coimbatore Pin: 641035 State : Tamilnadu Country: India 3)Dr.M.Shobana Address of Applicant : Assistant Professor Department of ECE SNS College of Technology Saravanampatti Post Coimbatore Pin: 641035 State : Tamilnadu Country : India 3)Dr.M.Shobana Address of Applicant : Assistant Professor Department of ECE SNS College of Engineering, Sathy Main Road, Kurumbapalayam (POST), Coimbatore Pin: 641107 State : Tamilnadu Country : India 5)Dr.Rama Abirami K Address of Applicant : Assistant Professor Department of CSE SNS College of Engineering and Technology, Kuriant Associate Professor Department of State : Tamilnadu Country : India 5)Dr.Rama Abirami K Address of Applicant : Assistant Professor Department of CSE SNS College of Engineering and Technology, Kuriant Associate Professor Department of CSE SNS College of Engineering (SENSE) Vellore Institute of Technology (VIT), Tiruvalam Road, Katpadi, Vellore Pin: 632014 State: Tamili
		Address of Applicant :Professor and Head, Department of CSE, Surya Engineering College Perundurai Road, Mettukadai, Erode Pin: 638107 State: Tamilnadu Country: India

(57) Abstract :

IGT Based Secured and Energy- Efficient Routing Protocols using Wireless Sensor Networks (WSNs) Abstract: Certain sensors in wireless sensor networks (WSNs) operate on a finite amount of power. Sensors become inoperable when their batteries run out. This is a significant flaw in the design of WSNs. As a result, it is said that the most critical characteristic of a wireless sensor network protocol is its energy consumption (WSNs). Energy-efficient, secure, and dependable sensor network protocols are required because battery-powerd sensors have limited battery life and are exposed to harsh environments. Routing is the most energy-intensive network protocol by far. Data transmission accounts for roughly 70% of the total energy consumed by WSNs. They are challenging to solve due to scarce resources, the absence of a global solution scheme, and the fact that WSNs are used for a single application. Additionally, WSN security is a significant issue due to the frequency with which sensors are installed and used in unsafe environments, making them vulnerable to security attacks. Numerous routing protocols currently in use incorporate built-in security objectives are met. It discusses the operation of these protocols, as well as their fundamental principles and characteristics.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2022

(43) Publication Date : 27/05/2022

(54) Title of the inven	ntion : Smart Parking System Using AI of	Things (AIOT)
 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:G08G0001140000, E04H0006340000, B60W0030060000, E04H0006300000, G06Q0020320000 :PCT// :01/01/1900 : NA :NA :NA :NA :NA	 (71)Name of Applicant : (71)Name of Applicant : Associate Professor / ECE, KLEF Deemed to be University off campus Hyderabad, Aziznagar -500075

(57) Abstract :

An automated parking system is a system that is capable of parking, transferring, storing, and retrieving a large number of cars. At least one communication system includes a tracking system and a transport system that includes at least one vehicle-transporting movable transporter and at least one vertical transportation facility for transporting the vehicle-transporting movable transporter. The automated parking system creates a parking scheme that includes at least one vacant parking space in a parking area. The unoccupied parking space is determined by determining the number of vehicles in the parking area.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA(22) Date of filing of Application :07/03/2021

(54) Title of the invention : AI BASED E-VEHICLE BATTERY POWER MANAGEMENT SYSTEM

(57) Abstract :

Since a battery's power is small, specialized techniques must be used to accurately estimate the State of Charge (SoC) to maintain the battery comfortably charged and discharged at a reasonable level while still maximizing its life cycle. Many useful methods for conducting SoC estimation in this invention, including Coulomb counting, Open Circuit Voltage (OCV), and the Kalman Filter method; then we suggest an Artificial Intelligence (AI) methodology that can be used to efficiently calculate the SoC estimation for the smart battery management framework as discussed it. We suggest that we use our suggested methodology to achieve a more precise SoC calculation for the smart battery management method.

No. of Pages : 22 No. of Claims : 5



2021 - 2022

List of Coordinators:

Chief Coordinator-EDC: Mr. R. Tamilamuthan

Coordinator name:	Department of Coordinator
MercLovonyo	CIVIII
Wis.C.Lavanya	CIVIL
Mr.S.Saravanan	CSE
Mrs Divya Bharthi	ECE
iviis.Divya Dilatun	ECE
Mr.R.Tamilamuthan	EEE
Mr Sarayanan	MECHANICAL
wir.Saravanan	MECHANICAL
Mrs.Malathi	S&H



Letter No: PERIIT/EDC/2021-2022/MOM/001

09-12-2021

<u>Circular</u>

All the Department Coordinators are requested to attend the meeting in EDC regarding One Million Ideas & E-Learning Program on 10-12-2021 at 1.00 pm.

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Chief Coordinator-EDC

Copy to:

- Principal
- Vice Principal
- HODs of all departments
- EDC Department Coordinators



Minutes of the Meeting

Date: 10.12.2021

Time: 01.00 pm

Venue: EDC

The following are the topics discussed during the meeting:

1. The cell has planned to conduct One Million Ideas & E-Learning Program on 13-12-2021 2. Assign 2 students as coordinators from each department, those who are interested within the idea about EDC.

3. Shortlist the students name list for EDC from every department.

4. Coordinators, should motivate and promote the students have idea about EDC.

5. Coordinators, give the guideline for the EDC students for pattern wrights.

6. Coordinators monitor the EDC students frequently and based on your time slot.

7. Make a hard copy of EDC students following details:

i) Name, ii) Community iii) Date of birth, iv) Address, v) Parent mobile number vi) Age of students vii) Student contact number.

Department Coordinators	Signature:
Mr.S.Saravanan-CSE-AP	Survey
Mr.R.Tamilamuthan-EEE-AP	Cited of the second sec
Mrs.Divya Bharthi-ECE-AP	S. Dhy Bit
Mrs.Malathi-S/H-AP	G.M. 18(12/2) J.M.J.
Mr.Saravanan-MECH-AP	Rey dula
Ms.C.Lavanya-CIVIL-AP	
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Chief Coordinato - CDC

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		PERIIT-EDC	
		2021-2022	
	CIVIL Depar	rtment EDC students name list	
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2	411520103004	Guneshdharan K	2CIVIL
3	411520103007	Saravanan M	2CIVIL
4	411520103306	Kandeeban P	2CIVIL
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6	411519103302	Vigneshwaran D	3CIVIL
7	411519103004	Ranjith R	3CIVIL
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9	411518103012	Yogeshwaran P T	4CIVIL
10	411518103002	Kiran Kumar J S	4CIVIL
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Coordinator istor

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6	411520114005	Karthik N	II MECH
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8	411520114022	B Surya Narayanan	III MECH
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15	411518114047	Rohit Ragav S S	IV MECH

Coordinator Boy 10 party

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S No	ECE Depa	artment EDC students name list	
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2	411518106005	Anugu Pavan	IV ECE
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8 411518105012 Mukesh E 4 EFE
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15 411519105011 Vinoth Kumar.M 3 EFE
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17 411519105003 S.Balaji 3 FFF
18 411519105002 Archana Jenifer.C 3 EFE
19 411519105008 K.Ponnarasi 3 EEE
20 411519105001 S.Abimanyu 3 FEF
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30 411520105007 R.Krishnakumar 2 FFF

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5	411518104028	Gokul Krishnan	IV CSE	
6	411518104031	Gurunath.M	IVCSE	
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18	411520104035	Javashree N		
19	411520104012	Arun Kumar G	II CSE	
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25	411520104078	S Ratthika	II CSE	
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27	411520104082	Samuel I	II CSE	
28	411520104083	S Saniaana	II CSE	
29	411520104073	Praveen Kumar	II CSE	
0	411520104070	Nithvasree D	II CSE	
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"Awareness for TNSI 2021-One Million Ideas and E-learning Program"

December 13th 2021

Entrepreneurship Development Cell of PERI Institute of Technology organized one day Seminar on Awareness for TNSI 2021-One Million Ideas and E-learning Program

The inaugural of the event was held with virtual lighting of lamp. The program was started by our respected **Principal Dr.R.Palson Kennedy** and **Vice Principal Mr.B.Magesh**. The chief guests of the programme **Mr Shree Jayaram Field Coordinator**, **IEDP HUB**, **MIT Campus**.



The objective of the program is about evident to the business community itself, but even more so to economy. In order to achieve the growth potential of the economy, students need to take more active role in the economy, be it as entrepreneurs, or as workers.

There were about 130 students who participated in the event and each individual participant discussed about their stand or opinion.





Student's interactive session with guest speaker.



Event flyer

		2021-2022 Students participant attac	lanaa abt	
Ever	nt name: Seminar o	n Awareness for TNSI 2021	One Million L	
	Sommal (Program	-One winnon Ideas	and E-learning
Venue:	Conference hall	riogram		Date: 12 12 2021
S.No.	Register no.	Name	Class	Sign
1	411520103003	Gokulnath H	2CIVII	Sigii.
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3	411520103007	Saravanan M	2CIVII	Amusnapara
4	411520103306	Kandeeban P	2CIVIL	Kanidada
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6	411519103302	Vigneshwaran D	3CIVIL	Viewil
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10	411520104305	Madhavan.M	II CSE	Martin
11	411520104038	Kamalesh.B	II CSE	Kennelul.
12	411519104043	Manasa.A	II CSE	Manag
13	411520104035	Jayashree.N	II CSE	Tare and the
14	411520104012	Arun Kumar G	II CSE	Aren Near and
15	411520104021	Dhana Sehwac R	II CSE	Dhang Column
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22	411520106039	Sivaprakash.S	II ECE	Die Draken
.5	411520106049	Vidhya.S	II ECE	Vidhyg
5	411520106004	K.Arunraj	II ECE	Ameri
6	411520100019	Indujaa.K	II ECE	Inderine
7	411519105000	Palaii S	<u>3 EEE</u>	Hasihagan
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3	411519105006	Haribaran P	3 EEE	Matuland
4	411519105003	S Balaii	3 EEE	per lordon
5	411520114010	F B Rithik	3 EEE	Kalaji
5	411520114011	K Roohan Dharmara:	II MECH	Kidiale
7	411520114003	Raiesh G		Kooban Dhaemaray
3	411520114003	Dharani Varan T	II MECH	Kayesh
,	411520114004	Towtham K	II MECH	Dharani Varan
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"ENTERPRISE RESOURCE PLANNING"





Dr. R. PALSON KENNEDY

Mr. B. MAGESH Ms. K. VARALAKSHMI

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(Jopes)

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PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

Ref: PERIIT/CSE/ 2022 EVEN/06

Date: 25/04/2022

The Department of Computer Science and Engineering is organizing a one day Guest Lecture on "ENTERPRISE RESOURCE PLANNING" on 25/04/2022 (Monday) from 02.00 pm.

I request all the faculty members and students to attend the Guest Lecture and we are expecting your coordination throughout the session.

NATOR F

HOD of Computer Science and Engineering PERI Institute of Technology Mannivakkam, Chennai - 600 048.

Copy to: THE PRINCIPAL VICE PRINCIPAL All HOD's Students Group

PRINCIPAL PRINCIPAL PERI INSTITUTE OF TECHNOLOGY Mannivakkam, Chennai - 600 044

PERI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GUEST LECTURE ON "ROADMAP TO IT JOB"

Report

A Guest Lecture on the topic "ENTERPRISE RESOURCE PLANNING" was organized by the Department of Computer Science and Engineering, on 25th April 2022 by 02.00pm to 03.00pm through a Google meet platform. Mrs. J.ROSHAN SANTHOSHI, ERP Lead Consultant, Mphasis, Chennai was the guest speaker of the day.



Fig1: Speaker – J.ROSHAN SANTHOSHI

The Guest Lecture began with a formal welcome note by Mr. Abdul Lathief, 2nd year CSE, presided by Mrs. Varalakshmi Krishnan HOD, CSE. The speaker, Mrs. J.Roshan Santhoshi accepted the invite.

Mrs Roshansanthoshi has delivered lecture on the topic "Enterprise resource planning "and its benefits. She explained about how the ERP systems collects and organizes the key business information and help organizations run lean, efficient operations, even as they expand.

She also explained about the application of integration frame work, ERP uses in various businesses, financial management. She shared about the popular ERP's such as oracle, people soft, Tally etc and their uses on IT industry. She said that the ERP is a critical business software that collects information from various departments in a common database, enabling leaders to monitor the pulse of a company using a single vision of reality. She shared about her work experience in ERP human resource management mainly concerned on security.



Fig2: Discussion Over Finance

The resource person thanks the organizers for arranging the live Guest Lecture. Ms. Lavanya of 2nd year CSE has delivered the vote of thanks. She thanked the resource person, Management, Principal, Vice Principal, HOD, Faculty members, participants and other Officials for their active support for making the program to be successful.

HOD of Computer Science and Engineering PERI Institute of Technology Mannivakkam, Chennai - 600 048. PRINCIPAL

Dr. R. PALSON KENNEDY, M.E., Ph.D., PRINCIPAL PERI INSTITUTE OF TECHNOLOGY Mannivakkam, Chennai - 600 048,

PERI INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ATTENDANCE SHEET ENTERPRISE RESOURCE PLANNING

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New		FEEDBACK FORM
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Dept/Year/Sec		CSE
Name of the Event	:	Use tick mark Uworkshop Seminar Training
Student Phone Number	:	8667660921

Your feedback is valuable to ensure we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Title of the Event	:	Enterprise resource	plannin
Date	:	25.4.22	<u> </u>
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Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

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1.	The program content met with your expectations.	(4)	3	2	1		
2.	The program exposed to you to new knowledge and practices.	4	3	2	2 1		
3.	The teaching aids were effectively used	4	3	2	1		
4.	The content were illustrated with adequate real time examples.		3	2	1		
5.	The facilitators were knowledgeable and well prepared.	4	3	2	1		
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7.	The program was well organized and well- coordinated.	4	3	2	1		
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9.	Would you be interested in attending a follow up seminar/workshop/conference on the same subject?	C	Yes		No		
10.	Suggestion if any,	-					

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Signature Dr. R. PALSON KENNEDY, M.E., Ph.D.,

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ITTUTE OF TECHNOLOGY	PUTER SCIENCE AND ENGINI ORGANIZES	JEST LECTURE ON E RESOURCE PLANNING	CATE OF PARTICIPATION	Tharanidharan.P OGY HAS PARTICIPATED IN GUEST LECTUR	ITUTE OF TECHNOLOGY ON 25/04/2022.	PRINCIPAL	www.peri.education
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