

## Criteria 3

### Research, Innovations and Extension

#### Key Indicator – 3.2 Innovation Ecosystem

**3.2.1 Institution has created an ecosystem of innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident.**

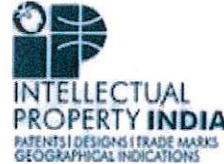
S.No	Title of the Invention	Year	Page No
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#### Application Details

APPLICATION NUMBER	202341009804
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/02/2023
APPLICANT NAME	1 . Dr. Vidhyalakshmi C.N. 2 . Mrs.Malathy G 3 . Mrs.Jeeva V 4 . Mrs. Julie J
TITLE OF INVENTION	Enhancing Communication Skills of the Learners through Activity Based Learning
FIELD OF INVENTION	PHYSICS
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#### Application Status

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**Awaiting Request for Examination**

[View Documents](#)

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(54) Title of the invention : Enhancing Communication Skills of the Learners through Activity Based Learning

(51) International classification : G06Q0050200000, G09B0019060000, G09B0005020000, G09B0005060000, G09B0007020000  
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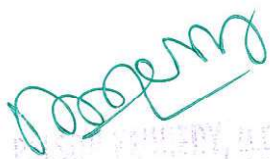
Address of Applicant : Assistant Professor Department of Science and Humanities (English) Peri Institute of Technology No.1, Mannivakkam, Chennai Pin-600048 District: Kanchipuram State: Tamilnadu Country: India -----

(57) Abstract :

Enhancing Communication Skills of the Learners through Activity Based Learning Abstract: Communication is the primary mode of transferring information between two or more people. Communication skill is meant for imparting and exchanging information using certain language skills such as speaking, writing, or using some other medium. As English is the global language, the craze for the English language has resulted in the commercialization of teaching English in countries like India, where there is a need for a common 'link language' amidst a wide range of regional languages. Education has become a profit-oriented business, and the welfare of the students has not been concerned. In India, the traditional method of teaching English in the language classroom has not been changed for ages. Education is centered on examination, thus the importance and goal of teaching English as a second language remain untested. Only memorization and reproducing the content is given priority by the present educationalists, as their prime motive is to score good marks not to develop efficiency in the target language. Thus, the quality and purpose of teaching and learning English as a second language remains questionable. At primary level students learn through meaningful activities. Being a teacher of grade four and five from a researcher's prospective it became clear that while teaching in Grammar translation method (GTM) most of the students were not able to understand the lesson and what perceived was a lacking context and being boring. On the contrary, the Activity Based learning (ABL) is very helpful in raising the interest of the students and to make them learn in friendly environment. The aim of present research is to highlight the fact that ABL has proved to be more effective in teaching students by inventing or creating, and ABL equips teachers with many activation arms in order to manage the students according to their mental and physical context. The tool of data collection was based on interviewing from the teachers to know that to what extent they consider ABL as an effective learning method to magnify the creative effect regarding the student perception. The students were put under observation by the implementation of various learning activities and random sampling from each class i.e 3rd to 5th grade (ten) students were observed. A close ended questionnaire having Yes/No options to know the response of 10 teachers of three private institutes of District Jhang regarding the efficacy of ABL was distributed. The results remained almost 88% as the teachers were already using some of these activities which according to them are inevitable for student learning at primary level. The participation of the students in various creative activities did put a healthy effect not only on students but on teachers as well. Teachers were in view of shifting from GTM to ABL as this is a student centered method. Hence this research recommends further new activities which may be helpful in raising the quality of student learning at grass root level. These activities in the class and outside the class room in both environments proved to be effecting on the students and teachers in a positive manner. Such learning activities change the perception of learning as a whole and make the learning canvas broader and colorful.

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### Application Details

APPLICATION NUMBER	202341056918
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/08/2023
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TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED ENTERPRISE RESOURCE PLANNING SOFTWARE FOR MANUFACTURING INDUSTRIES
FIELD OF INVENTION	COMPUTER SCIENCE
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(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED ENTERPRISE RESOURCE PLANNING SOFTWARE FOR MANUFACTURING INDUSTRIES

<p>(51) International classification :G06Q0010060000, G06N0020000000, G06Q0010080000, G06Q0010040000, G06Q0030020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mrs. Manepalli. Sailaja Address of Applicant :Assistant Professor Department of Mechanical Engineering Anil Neerukonda Institute of technology and sciences, Visakhapatnam - 531162 -----</p> <p>2)Dr. Kahmeera Shaik 3)Dr R Palson Kennedy 4)Dr.S.Sumathi 5)Mr. Lalam Ramu 6)Dr.A.M.Prasanna Kumar 7)M.Premalatha 8)Dr. Mahesh R. Shukla 9)Mr. SARATHI R 10)Mrs. R Dhivya</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mrs. Manepalli. Sailaja Address of Applicant :Assistant Professor Department of Mechanical Engineering Anil Neerukonda Institute of technology and sciences, Visakhapatnam - 531162 -----</p> <p>2)Dr. Kahmeera Shaik Address of Applicant :Assistant Professor, School of Management and Commerce, ITM University, Turari Campus, Gwalior-474001, Madhya Pradesh, India -----</p> <p>3)Dr R Palson Kennedy Address of Applicant :Professor &amp; Principal, Department of Computer Science and Engineering, PERI Institute of Technology, Mannivakkam, Chennai-48 -----</p> <p>4)Dr.S.Sumathi Address of Applicant :Assistant professor Department of Computer Science and Engineering University V.O.C College of Engineering, Thoothukudi, Tamil Nadu -628008 -----</p> <p>5)Mr. Lalam Ramu Address of Applicant :Assistant Professor (Research Scholar), Department of CSE-IOT, Malla Reddy Engineering College (Autonomous), Maisammaguda, Secunderabad, 500100, Telangana State. -----</p> <p>6)Dr.A.M.Prasanna Kumar Address of Applicant :Professor Department of Electronics and Communication Engineering Acs College of Engineering, Kambipura, Mysore Road, Bengaluru-560074 -----</p> <p>7)M.Premalatha Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Guru Nanak Institute of Technology, Khanapur, Ibrahim atnam, Hyderabad,501506. -----</p> <p>8)Dr. Mahesh R. Shukla Address of Applicant :Associate Professor &amp; Head, Mechanical Engineering Department, MKSSS Cummins College of Engineering for Women, Hingna,Nagpur- 441110 -----</p> <p>9)Mr. SARATHI R Address of Applicant :Student, Mechanical Engineering, St. Joseph's College of Engineering, Chennai - 600119 -----</p> <p>10)Mrs. R Dhivya Address of Applicant :Assistant Professor Department of Information Technology M.Kumarasamy College of Engineering Thalavaipalayam, Karur 639113 -----</p>
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(57) Abstract :  
 ARTIFICIAL INTELLIGENCE BASED ENTERPRISE RESOURCE PLANNING SOFTWARE FOR MANUFACTURING INDUSTRIES AI-driven Enterprise Resource Planning (ERP) software designed specifically for manufacturing industries is a game-changing solution that revolutionizes operational efficiency and decision-making. This innovative ERP seamlessly integrates AI technologies, such as machine learning and data analytics, to optimize manufacturing processes. Demand forecasting powered by AI predicts future demand accurately by analyzing historical sales data and market trends, aiding in efficient inventory management. Predictive maintenance uses AI to proactively identify equipment issues, reducing downtime and ensuring uninterrupted production. The software's resource allocation and production planning capabilities leverage AI to create optimal production schedules considering factors like machine capacity and raw material supply, enhancing resource utilization and reducing lead times. Quality control benefits from real-time monitoring through AI-enabled image recognition, swiftly detecting defects and maintaining product quality. Supplier management becomes more intelligent as the software analyzes supplier performance and external factors to suggest alternative suppliers or adjust procurement strategies, minimizing risks and costs. Beyond operations, the ERP generates actionable insights from extensive data, guiding strategic decisions for growth and innovation. In essence, AI-driven ERP for manufacturing optimizes production, quality control, resource allocation, and decision-making. By harnessing AI's predictive and analytical prowess, it empowers manufacturers to thrive in a dynamic market environment, making processes more efficient and enabling swift adaptation to industry changes. FIG.1

No. of Pages : 8 No. of Claims : 1

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#### Application Details

APPLICATION NUMBER	202341052750
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/08/2023
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TITLE OF INVENTION	MAGNETIC NATURAL FIBER COMPOSITES FOR ENERGY HARVESTING APPLICATIONS
FIELD OF INVENTION	ELECTRICAL
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E-MAIL (UPDATED Online)	
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REQUEST FOR EXAMINATION DATE	--
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Application Status

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(54) Title of the invention : **MAGNETIC NATURAL FIBER COMPOSITES FOR ENERGY HARVESTING APPLICATIONS**

(51) International classification : H02N0002180000, H02J0007350000, F03D0003060000, D01F0001100000, G06Q0050060000  
(86) International Application No : PCT//  
Filing Date : 01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number : NA  
Filing Date : NA  
(62) Divisional to Application Number : NA  
Filing Date : NA

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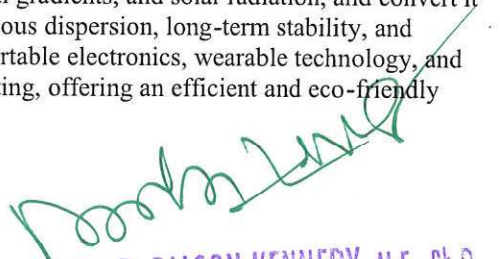
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(57) Abstract :

The invention pertains to magnetic natural fiber composites tailored for energy harvesting applications. By integrating magnetic particles uniformly within a natural fiber matrix, the invention creates a composite material that leverages the inherent advantages of natural fibers, such as flexibility and sustainability, with the functional attributes of magnetic materials. The composite is designed to harvest energy from various ambient sources, including mechanical vibrations, thermal gradients, and solar radiation, and convert it into usable electrical power. The innovative manufacturing process ensures homogeneous dispersion, long-term stability, and environmental compatibility. With potential applications in green energy solutions, portable electronics, wearable technology, and more, the invention represents a significant advancement in the field of energy harvesting, offering an efficient and eco-friendly approach to renewable energy utilization. Accompanied Drawing [FIGS. 1-2]

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#### Application Details

APPLICATION NUMBER	202341079679
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/11/2023
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TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING-BASED APPROACHES FOR ESTIMATING THE COST AND PERFORMANCE OF PRESTRESSED STEEL IN CONCRETE BRIDGE CONSTRUCTION
FIELD OF INVENTION	CIVIL
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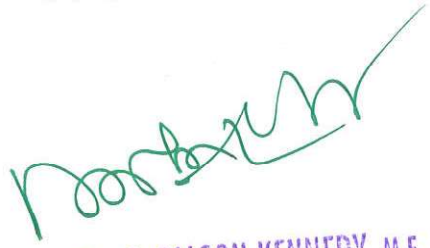
(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING-BASED APPROACHES FOR ESTIMATING THE COST AND PERFORMANCE OF PRESTRESSED STEEL IN CONCRETE BRIDGE CONSTRUCTION

(51) International classification :E01D0021000000, G06K0009620000, G06N0020000000,  
E01D0101280000, G06N0003080000  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
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Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(57) Abstract :  
Artificial Intelligence and Machine learning-based approaches for estimating the Cost and Performance of Prestressed Steel in Concrete Bridge Construction is the proposed invention. The proposed invention focuses on studying the functions of Performance of Prestressed Steel. The invention focuses on analyzing the parameters of estimation of Cost in Concrete Bridge Construction using algorithms of Artificial Intelligence.

No. of Pages : 9 No. of Claims : 4

  
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#### Application Details

APPLICATION NUMBER	202331001873
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/01/2023
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TITLE OF INVENTION	LOCALIZATION ERROR MITIGATION TECHNIQUE FOR LOCATION ENABLED IOT IN ATHLETE TRAINING SYSTEM
FIELD OF INVENTION	COMMUNICATION
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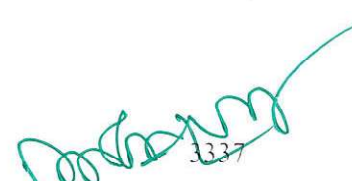
(54) Title of the invention : LOCALIZATION ERROR MITIGATION TECHNIQUE FOR LOCATION ENABLED IOT IN ATHLETE TRAINING SYSTEM

(51) International classification	:H04W0004020000, H04L0067120000, H04W0004029000, G06F0009451000, G01S0005020000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA
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(72)Name of Inventor :	1)Dr. Saroj Kanta Biswal Address of Applicant :Associate Professor, Faculty of Management Sciences, Siksha O Anusandhan, Deemed to be University, Bhubaneswar ----- 2)Dr. Sai Ram Inkollu Address of Applicant :Professor, Electrical and Electronics Engineering Department, Dhankula Institute of Engineering and Technology, Vijayawada, Andhra Pradesh, India. ----- 3)Ayesha Naureen Address of Applicant :Research scholar, Department: Computer Science and Engineering, University of Technology, Jaipur, Rajasthan, India. ----- 4)Muhammed Ali. T Address of Applicant :Assistant Professor, Department of Physical Education, Malabar College of Advanced Studies Vengara- 676519 ----- 5)Dr. Nafih Cherappurath Address of Applicant :Assistant Professor, Department of Physical Education, Amal College of Advanced Studies, Nilambur - 679329 ----- 6)Dr. R. Dinesh Kumar Address of Applicant :Associate professor, Department of Electronics Communication Engineering, Peri Institute of technology, Tamil Nadu, India. ----- 7)Dr. A. Shankar Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Manakula Vinayagar Institute of Technology, Puducherry, Puducherry, India. ----- 8)Murali Krishna Atmakuri Address of Applicant :Assistant Professor, Department of F.C.E. RVR & JC College of Engineering, Guntur, India -----

(57) Abstract :  
ABSTRACT As a result of the Internet of Things devices deployment, numerous applications are being created, which is growing exponentially. Localization techniques are increasingly important in athlete training system to provide location context to Internet of Things data without involving human intervention and perception. For mass-market localization applications, fifth generation technology and the recently developed low power wide-area network are now excellent possibilities in the meantime. However, due to multiple error sources employing such Internet of Things signals has resulted in restricted localization performance. This invention examines the Internet of Things localisation system like review of Internet of Things localisation systems and sources for localization data, localization error sources and remediation, and drafting algorithms for localisation and localization performance assessment.

No. of Pages : 11 No. of Claims : 6

The Patent Office Journal No. 02/2023 Dated 13/01/2023

  
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#### Application Details

APPLICATION NUMBER	202341005348
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/01/2023
APPLICANT NAME	1 . Mr. S. Radha Krishna Reddy 2 . Dr. Vasanthakumar Natarajan 3 . Dr. Ramesh Babu M 4 . Dr.R.Karthikeyan 5 . A.Udhaya Kumar 6 . Dr.R.Senthil Kumar 7 . Dr.R.Dinesh Kumar 8 . Dr.Swagata Sarkar
TITLE OF INVENTION	An Adaptive Fuzzy Power Controller Based Wind Energy Conversion System
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	mail2patentipr@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/02/2023

#### Application Status

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202341005348 A

(19) INDIA

(22) Date of filing of Application : 27/01/2023

(43) Publication Date : 10/02/2023

(54) Title of the invention : An Adaptive Fuzzy Power Controller Based Wind Energy Conversion System

(51) International classification : F03D0009250000, F03D0015000000, H02P0101150000, F03D0007020000, B60W0010060000  
(86) International Application No : PCT//  
Filing Date : 01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number : NA  
Filing Date : NA  
(62) Divisional to Application Number : NA  
Filing Date : NA

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(57) Abstract :

A gearbox, a generator, an AC to DC power converter, a DC link, and a DC to AC power converter are the components that make up a power conversion system for wind energy. Additionally, the DC link comprises at least one ultra capacitor module that is linked in parallel. An unwanted frequency of a wind energy power conversion system gearbox can be obtained by performing the following steps: determining an input torque value on the input shaft of the gearbox as a function of time; determining a frequency of the input torque value; and adjusting a torque on the output shaft of the gearbox based on the unwanted frequency. This can be done as part of a method for reducing stress on a wind turbine gearbox.

No. of Pages : 17 No. of Claims : 3



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### Application Details

APPLICATION NUMBER	202341005350
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/01/2023
APPLICANT NAME	1 . R Vijayaganth 2 . Dr. Vasanthakumar Natarajan 3 . C Venkatesh Kumar 4 . Dr. Sanjay Agal 5 . Dr.Swagata Sarkar 6 . Bhupati 7 . Dr.R.Dinesh Kumar 8 . Dr.R.Kalaivani
TITLE OF INVENTION	AI & ML Based System for Prediction of Wind Power for Multi-Turbine
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	mail2patentipr@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/02/2023

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202341005350 A

(19) INDIA

(22) Date of filing of Application : 27/01/2023

(43) Publication Date : 10/02/2023

(54) Title of the invention : AI & ML Based System for Prediction of Wind Power for Multi-Turbine

(51) International classification	: F03D0007040000, F03D0007020000, F03D0009250000, F03D0009110000, F03D0017000000
(86) International Application No	: PCT//
Filing Date	: 01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	: NA
Filing Date	: NA
(62) Divisional to Application Number	: NA
Filing Date	: NA
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(57) Abstract :

One or more examples demonstrate how a system may collect initial sensor data from individual wind turbines that are part of a group of wind turbines. For example, the first sensor data may consist of at least the power output and the wind speed for each time period. The system will train at least one respective model for each respective wind turbine using the initial sensor data obtained from that respective wind turbine as the basis for the training. Additionally, during a second time period, the system collects corresponding second sensor data from the various wind turbines. The system will execute, using the respective second sensor data, the respective model that was trained using the respective first sensor data received from that respective wind turbine. This will enable the system to determine, for each respective wind turbine, a predicted power output for an upcoming period. It is possible to calculate a total anticipated power output by adding together all of the individual predicted power outputs, and at least one action is carried out in response to the total predicted power output.

No. of Pages : 19 No. of Claims : 3



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### Application Details

APPLICATION NUMBER	202341007078
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	03/02/2023
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TITLE OF INVENTION	Architecture FPGA for Non Linear and Morphological Image Filtering
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL-EMAIL (As Per Record)	mail2patentipr@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/02/2023

### Application Status

  
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/02/2023

(21) Application No.202341007078 A

(43) Publication Date : 24/02/2023

(54) Title of the invention : Architecture FPGA for Non Linear and Morphological Image Filtering

(51) International classification :G06T0001600000, H04N0001400000, G06T0005000000, G06T0005100000, A23L0029300000

(86) International Application No :PCT//  
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

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(57) Abstract :

A method for quickly processing photos by using memory management and pre-computed look-up tables. Filtering in directions other than picture rows is simplified by using a variety of structured processing approaches that increase the image data's caching capacity. Time-consuming or repeated computations are pre-computed and stored as look-up tables to reduce the requirement for specialized hardware for image processing and reduce or eliminate the processing time required for each picture. Since the architecture of FPGAs is so versatile, the technology may be used to many other fields, including video image processing in all its forms.

No. of Pages : 13 No. of Claims : 2

The Patent Office Journal No. 08/2023 Dated 24/02/2023

12775  
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#### Application Details

APPLICATION NUMBER	202241056622
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/10/2022
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TITLE OF INVENTION	A DEEP CONVOLUTIONAL NEURAL NETWORK SYSTEM FOR LITHIUM-ION BATTERY CAPACITY
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/10/2022

#### Application Status

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241056622 A

(19) INDIA

(22) Date of filing of Application : 02/10/2022

(43) Publication Date : 14/10/2022

(54) Title of the invention : A DEEP CONVOLUTIONAL NEURAL NETWORK SYSTEM FOR LITHIUM-ION BATTERY CAPACITY

(51) International classification : G06N0003040000, G06N0003080000, H01M0010052500, H02J0007000000, G01R0031384200  
(86) International Application No : PCT//  
Filing Date : 01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number : NA  
Filing Date : NA  
(62) Divisional to Application Number : NA  
Filing Date : NA

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5) Dr. C.S. Sundar Ganesh

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Name of Applicant : NA

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(57) Abstract :

The present invention relates to the field of a deep convolutional neural network system. The invention more particularly relates to a deep convolutional neural network system for lithium-ion battery capacity comprises: a battery management system; a wireless network; a cloud server; one or more batteries; a battery data module; and a deep convolutional neural network configured to receive a time series of values one or more battery attributes for a battery and to determine based on the received time series, the battery state. Accompanied Drawing [FIG. 1]

No. of Pages : 16 No. of Claims : 5

  
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#### Application Details

APPLICATION NUMBER	202241052833
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/09/2022
APPLICANT NAME	1 . Peri Institute of Technology 2 . Mr. B.Magesh 3 . Mr. Anil Kumar 4 . Mr. John Paul
TITLE OF INVENTION	Implementation of Smart Residential Building with Floatable Car Parking using AUTOCAD and STAAD PRO
FIELD OF INVENTION	CIVIL
E-MAIL (As Per Record)	senanipindia@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/10/2022

#### Application Status

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[View Documents](#)

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241052833 A

(19) INDIA

(22) Date of filing of Application : 15/09/2022

(43) Publication Date : 14/10/2022

(54) Title of the invention : Implementation of Smart Residential Building with Floatable Car Parking using AUTOCAD and STAAD PRO

(51) International classification : E04H0001040000, G06F0030130000, E04H0006100000, E04G0021000000, E04B0001040000

(86) International Application No : PCT//  
Filing Date : 01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA  
Filing Date : NA

(62) Divisional to Application Number : NA  
Filing Date : NA

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3) Mr. Anil Kumar

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4) Mr. John Paul

Address of Applicant : Assistant Professor, Department of Civil Engineering, Arunachala College of Engineering for Women, Manavilai, Velichanthai Pin: 629203 District: Kanyakumari State: Tamilnadu Country: India -----

(57) Abstract :

Implementation of Smart Residential Building with Floatable Car Parking using AUTOCAD and STAAD PRO ABSTRACT In the urban districts of India, the multi-story structure with the floating column plays an important part in modern construction. The majority of the time, these floating columns are used to fulfil the space requirements of the building and to achieve an aesthetically acceptable architectural appearance. The aim of this research is to implement Smart Residential Building with Floatable Car Parking. The total area of the apartment is nearly 886.36 sq.m. It has a total number of 4 floors (G+3). The plan has been made by AUTOCAD, consequence analysis by STAAD PRO, design calculation has been done manually. Various components like slabs, beams, columns, footing, staircase are designed by limit state method. The load combinations are taken into consideration such as dead load, live load. All the structural elements are designed based on Indian Standard codes such as IS 456 2000(LM), IS875 PART (1, 2& 3). The car parking is designed using docks with the help of Archimedes principle and buoyancy. The schematic diagram and working process is explained in this project.

No. of Pages : 13 No. of Claims : 10

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The Patent Office Journal No. 41/2022 Dated 14/10/2022

65461



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### Application Details

APPLICATION NUMBER	202241007568
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/02/2022
APPLICANT NAME	1 . Dr. Anitha G 2 . Dr.Vivek.R 3 . Mr. Rajini Kanth V 4 . Mr. G. Rathanasabhpathy 5 . Ms.Subatra 6 . Dr. S. Sivagnanam 7 . Dr.M.Ramkumar Prabhu
TITLE OF INVENTION	Implementation of Effective Wideband Cavity Backed Patch Antenna for Air surveillance Radar application
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/02/2022

  
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### Application Status



(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241007568 A

(19) INDIA

(22) Date of filing of Application : 12/02/2022

(43) Publication Date : 25/02/2022

(54) Title of the invention : Implementation of Effective Wideband Cavity Backed Patch Antenna for Air surveillance Radar application

(51) International classification : H01Q0009040000, H01Q0021060000, H01Q0019185000, H01Q0001480000, H01Q0021240000  
(86) International Application No Filing Date : PCT// : 01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number Filing Date : NA : NA  
(62) Divisional to Application Number Filing Date : NA : NA

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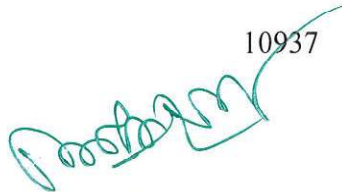
(57) Abstract :

Implementation of Effective Wideband Cavity Backed Patch Antenna for Air surveillance Radar application Abstract: This research discusses in detail how to construct a small rectangular patch antenna that performs well over a broad frequency range. The antennas in this case are probe-fed micro strip antennas ( $r = 2.22$ , thickness = 1.16mm). Before adding a load to a specific frequency band, the impedance of a cavity structure is measured to determine how it affects the antenna's impedance bandwidth. The return loss is less than ten decibels in S-band, and each antenna element gains more than seven decibels. This antenna operates at a frequency of 400 MHz (more than 12 percent). The HFSS 3D-EM FEM simulator was used to model this design.

No. of Pages : 10 No. of Claims : 7

The Patent Office Journal No. 08/2022 Dated 25/02/2022

10937

  
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#### Application Details

APPLICATION NUMBER	202211060209
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/10/2022
APPLICANT NAME	1 . Dr. SURENDRA KUMAR YADAV 2 . Dr. S V S K DEEPAK KUMAR, 3 . Mr. VIPUL BALKRISHNA NERKAR 4 . Dr. RAHULKUMAR SHIVAJIRAO HINGOLE 5 . Dr.G.IRIN LORETTA 6 . Dr. DROUPTI YADAV 7 . AKKENAPALLI PREM RAJ 8 . A ABDUL HAYUM 9 . Dr. A SRIVANI PH.D D.SC 10 . Dr JYOTI PRASAD PATRA 11 . Dr. R. SANJEEVI 12 . SONU KUMAR
TITLE OF INVENTION	DEEP LEARNING BASED SYSTEM TO ANALYSE AND SUPPORT THE PROCESS OF CLEANING SOLAR SEPARATORS IN SOLAR ENERGY ENABLED DEVICES FOR HARVESTING SOLAR ENERGY
FIELD OF INVENTION	MECHANICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/11/2022

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202211060209 A

(19) INDIA

(22) Date of filing of Application : 21/10/2022

(43) Publication Date : 04/11/2022

(54) Title of the invention : DEEP LEARNING BASED SYSTEM TO ANALYSE AND SUPPORT THE PROCESS OF CLEANING SOLAR SEPARATORS IN SOLAR ENERGY ENABLED DEVICES FOR HARVESTING SOLAR ENERGY

(51) International classification : F24S0040200000, H02S0040100000, G06N0003080000, G06N0003040000, B08B0001000000  
(86) International Application No : NA  
Filing Date : NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number : NA  
Filing Date : NA  
(62) Divisional to Application Number : NA  
Filing Date : NA

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(57) Abstract :

Deep Learning based system to analyse and support the Process of Cleaning Solar Separators in Solar Energy enabled Devices for Harvesting Solar Energy is the proposed invention. The invention aims at cleaning the solar separators at regular intervals. The algorithms of deep learning will help to predict the volume of dust that is accumulated on the solar panels. The invention focuses on increasing the efficacy of solar panels through monitoring their condition.

No. of Pages : 13 No. of Claims : 6

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69937  
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### Application Details

APPLICATION NUMBER	202211061210
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED APPROACH TO STUDY THE ISSUES ASSOCIATED WITH FUEL CELLS TO REDUCE COST AND INCREASE SUSTAINABILITY
FIELD OF INVENTION	ELECTRONICS
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/11/2022

  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202211061210 A

(19) INDIA

(22) Date of filing of Application : 27/10/2022

(43) Publication Date : 11/11/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPROACH TO STUDY THE ISSUES ASSOCIATED WITH FUEL CELLS TO REDUCE COST AND INCREASE SUSTAINABILITY

(51) International classification : G11C0016040000, G09B0019000000, A61K0047600000, G01N0033680000, G06F0030000000

(86) International Application No : NA  
 Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA  
 Filing Date : NA

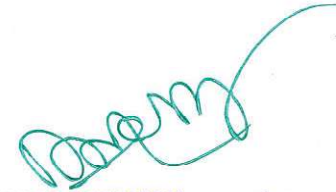
(62) Divisional to Application Number : NA  
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(57) Abstract : Artificial Intelligence based approach to study the issues associated with Fuel cells to reduce cost and increase sustainability is the proposed invention. The invention aims at implementing algorithms of Artificial Intelligence for studying the issues associated with fuel cells. The objective of the proposed invention is to increase the sustainability of fuel cells and reduce the cost as well.

No. of Pages : 11 No. of Claims : 5



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The Patent Office Journal No. 45/2022 Dated 11/11/2022



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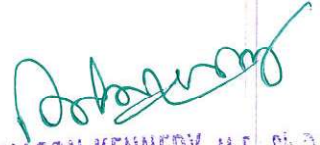


(<http://ipindia.nic.in/index.htm>)

#### Application Details

APPLICATION NUMBER	202241053255
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/09/2022
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TITLE OF INVENTION	IOT ENABLED ENERGY EFFICIENT ADVANCED 6G COMMUNICATION NETWORK SYSTEM
FIELD OF INVENTION	ELECTRONICS
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/09/2022

#### Application Status

  
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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/09/2022

(21) Application No. 202241053255 A

(43) Publication Date : 23/09/2022

(54) Title of the invention : IOT ENABLED ENERGY EFFICIENT ADVANCED 6G COMMUNICATION NETWORK SYSTEM

(51) International classification :H04B0010400000, H04L0029080000, H04W0004800000, H04B0001400000, H04W0084120000  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No :NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(57) Abstract :  
ABSTRACT IOT ENABLED ENERGY EFFICIENT ADVANCED 6G COMMUNICATION NETWORK SYSTEM The present disclosure relates to an Internet of Things (IoT) enabled energy efficient advanced 6G communication network system. The system comprising of a shaft with an opening located at a building top having a primary transceiver fixed for transmitting and receiving radio waves, a column attached to the shaft for propagating radio waves, a plurality of staffs attached to the column for interfacing with the radio waves from the column, a cooling inlet in the shaft for circulating cool air, a secondary transceiver located at a room in the building for receiving and transmitting radio waves, and a sensor located in the room for sensing presence of humans and capable of communicating with the secondary transceiver. A system for energy efficient smart communication technologies for next generation wireless communication technology is disclosed. The system utilizes millimeter waves and sub millimeter waves technologies for network communication. Figure 1 is the reference figure

No. of Pages : 14 No. of Claims : 6

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60570  
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### Application Details

APPLICATION NUMBER	202241071546
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/12/2022
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TITLE OF INVENTION	IOT MODULE WITH AI BASED MATHEMATICAL MODEL FOR CURVE FITTING FOR SENSORY DATA
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241071546 A

(19) INDIA

(22) Date of filing of Application : 12/12/2022

(43) Publication Date : 30/12/2022

(54) Title of the invention : IOT MODULE WITH AI BASED MATHEMATICAL MODEL FOR CURVE FITTING FOR SENSORY DATA

(51) International classification : H04L0041063100, G06K0009620000, G06N0003020000, G06N0020000000, G07C0005080000

(86) International Application No : NA  
Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA  
Filing Date : NA

(62) Divisional to Application Number : NA  
Filing Date : NA

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(57) Abstract :

Abstract: This invention is an Expert System based Mathematical Model for Humanoid Robot Designing employing a sensor attached to DAQ (Data acquisition). Input is collected from the sensor attached to DAQ and processed through the Electronic Computing Unit. The input parameters are classified into x and y axis. The Electronic Computing Unit collects the sensory data from DAQ. All the data collected and computed is sent to the server for this application employing the IoT module integrated with the Electronic Control Unit. Here a Support Vector Machine and K Means based ensemble machine learning approach is employed. Once sufficient data has been collected and classification based profiling has been done, the machine learning model plots a graph, with the user defined x and y axis with a curve. The Mathematical Model of Curve Fitting with Sensory data can be viewed in any type of computing device remotely.

No. of Pages : 7 No. of Claims : 5

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### Application Details

APPLICATION NUMBER	202241059826
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/10/2022
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TITLE OF INVENTION	FACIAL MANIPULATION DETECTION USING-U-NET
FIELD OF INVENTION	CIVIL
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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241059826 A

(19) INDIA

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(43) Publication Date : 18/11/2022

(54) Title of the invention : FACIAL MANIPULATION DETECTION USING-U-NET


(51) International classification : E04H001300000, G06N000304000, G06T000711000, G06T000700000, G01N0033543000  
(86) International Application No : PCT//  
Filing Date : 01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number : NA  
Filing Date : NA  
(62) Divisional to Application Number : NA  
Filing Date : NA

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(57) Abstract :  
FACIAL MANIPULATION DETECTION USING-U-NET ABSTRACT As tools for making and changing appearances have advanced, new types of artificial face representations have emerged, raising grave concerns about their use in the actual world. Therefore, the ability to determine when a facial image has been digitally manipulated is crucial. U-net Architecture provides a new way for identifying changing faces and pinpointing their origin. This modified image and its associated mask are used to train models. By changing the second, the first was produced. Several procedures are done on the input image to generate a mask. Examples include padding, rectified linear activation, maximal pooling, and up convolution. The dice score, the probability of success, and any mistakes are added together. Then, U-net can be utilised to establish which facial feature has been altered.

No. of Pages : 11 No. of Claims : 8

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### Application Details

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FIELD OF INVENTION	COMPUTER SCIENCE
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(43) Publication Date : 18/11/2022

(54) Title of the invention : REAL-TIME FACIAL RECOGNITION BASED STUDENT PROCTORING SYSTEM USING KNN ALGORITHM

(51) International classification :G06K009620000, G06Q005020000, G09B000702000, G09B0007000000,  
G06N0020000000

(86) International Application No :PCT/  
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(87) International Publication No :NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
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(57) Abstract :  
REAL-TIME FACIAL RECOGNITION BASED STUDENT PROCTORING SYSTEM USING KNN ALGORITHM ABSTRACT Their actions indicate their personality. This project uses an automatic facial recognition system to keep track of who attended to work and who did not. Any institution that desires to be successful must maintain a steady enrollment. The majority of the time, instructors take attendance by calling out a student's name or registration number. The teacher then writes down the name or number. Concerns me greatly that so much time will be devoted to this. Consider that the course will run approximately one hour and that registration will take approximately ten minutes. Everyone in the teaching profession should immediately cease wasting time in this manner. In this instance, an automated method based on image processing is used to avoid such problems. This experiment uses both facial recognition and facial detection technologies. After facetedection has determined the general location of the face, facial recognition technology can be utilised to verify the understudy's identity. The KNN algorithm is utilised to develop the KNN Classifier, a machine learning model. After saving the class as a classifier, each student's face may be compared to the faces in the saved model to establish who is in class.

No. of Pages : 12 No. of Claims : 8

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### Application Details

APPLICATION NUMBER	202241002512
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	CARDIOVASCULAR DISEASE PREDICTION SYSTEM USING MACHINE LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
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PUBLICATION DATE (U/S 11A)	28/01/2022

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### Application Status

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(22) Date of filing of Application : 17/01/2022

(43) Publication Date : 28/01/2022

(54) Title of the invention : **CARDIOVASCULAR DISEASE PREDICTION SYSTEM USING MACHINE LEARNING**

(51) International classification : G06N0020000000, G16H0010600000, G06Q0050220000, C12Q0001688300, G06N0005000000

(86) International Application No : NA  
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(87) International Publication No : NA

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Filing Date : NA

(62) Divisional to Application Number : NA  
Filing Date : NA

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(57) Abstract :  
 Cardiovascular disease is diseases that are influencing heart and veins. The conventional strategies for foreseeing the cardiovascular diseases helped in settling on choices about the progressions to have happened in high-hazard patients which brought about the decrease of their dangers. populace. Anticipating the disease is a basic test in clinical information examination and medical care suppliers to forestall individuals and ensure their life. Machine learning with medication assisted the medicos with settling on choices in a few confounded cases and anticipating the high-hazard patients from coronary illness or cardiovascular disease. Machine learning calculations can be utilized to break down and analyze coronary illness. The framework executes to anticipate cardiovascular disease utilizing patient datasets through a machine learning arrangement calculation. An enormous volume of exploration information and patients records of clinics are accessible. Those could be utilized for doing the right early analysis of the patients and anticipate/recognize this disease to prevent it from becoming hazardous. In this framework ANN machine learning calculation is taken on for expectation which results high precision in huge volume of information. By this way we can make utilize these pieces of information and assemble a machine learning model which could be tried gives a forecast or alarm to the patients in danger.

No. of Pages : 7 No. of Claims : 3

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### Application Details

APPLICATION NUMBER	202241058910
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	PERSONALIZED RECOMMENDATION OF TOPICS BY INFLUENCE ANALYSIS USING SUPPORT VECTOR MACHINE ALGORITHM
FIELD OF INVENTION	COMPUTER SCIENCE
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### Application Status



(12) PATENT APPLICATION PUBLICATION

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(19) INDIA

(22) Date of filing of Application : 14/10/2022

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(54) Title of the invention : PERSONALIZED RECOMMENDATION OF TOPICS BY INFLUENCE ANALYSIS USING SUPPORT VECTOR MACHINE ALGORITHM

(51) International classification : G06F0016953500, G06K0009620000, G07C0013000000, H04N0021466000, G06F0016230000

(86) International Application No : PCT//

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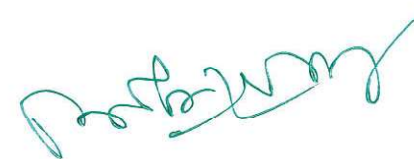
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(57) Abstract :  
 PERSONALIZED RECOMMENDATION OF TOPICS BY INFLUENCE ANALYSIS USING SUPPORT VECTOR MACHINE ALGORITHM ABSTRACT To design a voting system that allows users to propose discussion topics and then let the system decide. The goal of this project is to develop a system that can increase user engagement by recommending content based on what each user likes. LDA is a model used to extract every subject of the user. The most common topics are then chosen to make them easier to locate. Once the consumer-influencing factors have been identified through impact research, they can be categorised as either positive or negative. Individuals are then ranked using the SVM algorithm. Finally, clients are given suggestions for other novels to read. The tweets of users are analysed to suggest books to read. Even when a Twitter data set exists, live Twitter data remains connected. Twitter gives real-time updates on what is currently trending and popular. You need not worry about being accurate here. The recommendations are derived from the user's selections.

No. of Pages : 11 No. of Claims : 8



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### Application Details

APPLICATION NUMBER	202241058911
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/10/2022
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TITLE OF INVENTION	VIRTUAL CLOTH FITTING IN 2D USING DEEP LEARNING APPROACH
FIELD OF INVENTION	COMPUTER SCIENCE
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(21) Application No. 202241058911 A

(19) INDIA

(22) Date of filing of Application :14/10/2022

(43) Publication Date : 21/10/2022

(54) Title of the invention : VIRTUAL CLOTH FITTING IN 2D USING DEEP LEARNING APPROACH

(51) International classification :G06Q0030060000, G06N0003080000, G06N0003040000, G06Q0030020000, G06Q0040000000

(86) International Application No :PCT/  
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
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(57) Abstract :

VIRTUAL CLOTH FITTING IN 2D USING DEEP LEARNING APPROACH ABSTRACT Dresses, like other clothes, are an item that internet shoppers desire to try on before making a purchase. Customers need a system that can predict how they will look in the clothes they wish to purchase. This will smooth the transition between offline and online shopping and give customers with a more genuine buying experience. This is a win-win situation, as it will facilitate communication between the two purchase ways. Historically, this type of system was built utilising computer graphics. Several clothing may be digitally tried on after the individual was created in three dimensions. Due to their high computational and hardware requirements, these strategies are only useful for a few tasks. The objective of this work is to develop a fitting system that can identify individuals in new clothing based solely on photographs of them standing in their current position. This undertaking is broken into two sections. Using a single module, the input fabric's shape can be adjusted to suit each user's own sense of fashion. To install this piece of clothing on a human, you must utilise the other module. The completion of both modules is required for this project to proceed. Unique Module Utilizing Efficient CNN-based networks that have been trained to predict the parameters for morphing shape via spatial transformation, we begin by predicting these parameters. This topic is discussed in the second unit. The module that modifies the mask's shape communicates this information to the following module, which is developed using U-net architecture, so that it can identify where to attach the fabric to the mask. This information is used to construct a physical interaction between the garment and the human, resulting in the final rendered images. Because the method is effective, the resulting images appear natural and include a great deal of information.

No. of Pages : 10 No. of Claims : 8



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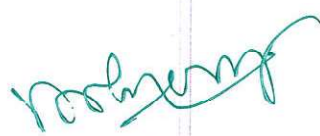
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### Application Details

APPLICATION NUMBER	202241058912
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE (AI) BASED ANIMAL RECOGNITION AND REPELLING SYSTEM FOR SMART FARMING DCNN ALGORITHM
FIELD OF INVENTION	COMPUTER SCIENCE
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### Application Status

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241058912 A

(19) INDIA

(22) Date of filing of Application : 14/10/2022

(43) Publication Date : 21/10/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE (AI) BASED ANIMAL RECOGNITION AND REPELLING SYSTEM FOR SMART FARMING DCNN ALGORITHM

(51) International classification : G06N 003 04 0000, G06N 000 50 80000, A01M 002 91 00000,  
 A01M 002 91 60000, G06N 000 70 00000

(86) International Application No. : PCT/  
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(87) International Publication No. : NA

(61) Patent of Addition to Application Number : NA  
 Filing Date : NA

(62) Divisional to Application Number : NA  
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(57) Abstract :  
 ARTIFICIAL INTELLIGENCE (AI) BASED ANIMAL RECOGNITION AND REPELLING SYSTEM FOR SMART FARMING DCNN ALGORITHM ABSTRACT Deep Neural Networks and the Internet of Objects have made it possible to design and use programmes that can precisely manage, monitor, and track objects, which is one of the primary reasons why automated farming is gaining popularity. In a continuously changing environment, it is essential to explore the optimal way to manage interactions between humans and wildlife. The consumption of crops by wild animals is one of the most important problems farmers face today. In the past, people have attempted both lethal (such as shooting or trapping) and non-lethal (such as poisoning or eliminating the issue) solutions to this problem. However, certain traditional practices degrade the environment, which can be detrimental to humans and ungulates alike. Other methods are excessively costly, need substantial maintenance, and are neither dependable nor efficient. This project comprises the creation of a system that employs AI Computer Vision and Deep Convolutional Neural Networks (DCNN) to find and identify diverse animal species prior to frightening them away with species-specific ultrasonic emissions. When the camera is activated, the edge device will recognise the target using Deep Convolutional Neural Network (DCNN) software. If the target is an animal, the Animal Repelling Module will be instructed on what type of ultrasound to emit.

No. of Pages : 11 No. of Claims : 8

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### Application Details

APPLICATION NUMBER	202241007993
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	IoT Based Secured and Energy- Efficient Routing Protocols using Wireless Sensor Networks (WSNs)
FIELD OF INVENTION	COMMUNICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/02/2022

  
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### Application Status

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241007993 A

(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 : H04W0084180000, H04W0052020000, H04L0029060000, H04W006401000000, H04W0004580000

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(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA

Filing Date : NA

(62) Divisional to Application Number : NA

Filing Date : NA

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(57) Abstract :  
 IoT 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-powered 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 measures to ensure that their 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

  
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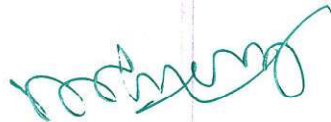


(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202241075332
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	Monitoring E - Health Care System Using AI Techniques & Methods
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202241075332 A

(19) INDIA

(22) Date of filing of Application : 25/12/2022

(43) Publication Date : 30/12/2022

(54) Title of the invention : Monitoring E – Health Care System Using AI Techniques & Methods

(51) International classification : G16H00106600000, G16H0050200000, G16H0040670000, G16H0040200000, G16H0015000000  
(86) International Application No : PCT//  
Filing Date : 01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number : NA  
Filing Date : NA  
(62) Divisional to Application Number : NA  
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Address of Applicant : Associate Professor / EEE, T.J.S Engineering College, Chennai -----

(57) Abstract :

A system that provides personalized medical care, as well as intelligent analysis and diagnosis, may comprise the following components: at least one source of medical information; at least one source of personal medical data for at least one patient; and one or more servers, with the personal medical data and medical information being accessible to the servers (s). The server(s) may contain: an artificial intelligence (AI) component for analyzing the personal medical data with the medical information and identifying at least one issue requiring follow-up by the patient or by at least one external authorized entity; and at least one real-time communication link for bi-directional communication with at least one external authorized entity. The AI component analyses the personal medical data with the medical information and identifies at least one issue requiring follow-up by the patient or by at least one external authorized entity.

No. of Pages : 23 No. of Claims : 4

The Patent Office Journal No. 52/2022 Dated 30/12/2022

  
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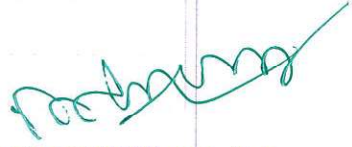


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### Application Details

APPLICATION NUMBER	202241008443
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/02/2022
APPLICANT NAME	1 . Ms. M.Ayeesha Nasreen 2 . Dr.R.Ilango 3 . Yogalakshmi.V 4 . Valarmathi.M 5 . K.Varalakshmi 6 . Mr. Surya Prakash 7 . Mr. Anandaraj. B
TITLE OF INVENTION	Internet of things & artificial intelligent based Automatic Herbicide Spraying System
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/02/2022

### Application Status

  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241008443 A

(19) INDIA

(22) Date of filing of Application :17/02/2022

(43) Publication Date : 25/02/2022

(54) Title of the invention : **Internet of things & artificial intelligent based Automatic Herbicide Spraying System**

(51) International classification :G05D0001020000, A01M0021040000, A01M0007000000, B25J0011000000, G05D0001000000

(86) International Application No :PCT//  
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

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5)K.Varalakshmi

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Name of Applicant : NA

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(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

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

The Patent Office Journal No. 08/2022 Dated 25/02/2022 11032

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### Application Details

APPLICATION NUMBER	202141050175
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/11/2021
APPLICANT NAME	1 . Dr. M. Senthil Kumar 2 . Dr. M. Monisha 3 . Dr. R Palson Kennedy 4 . Mr. P. Nelson Kingsley Joel 5 . Mr. Mahaboob Subani Shaik 6 . Dr. A Selva Reegan 7 . Dr. Alagu Thillaivanan 8 . Dr. K. Arulanandam 9 . Mr. MDR. Shivkhumar 10 . Mrs. V. Revathy
TITLE OF INVENTION	CONGESTION AVOIDANCE AND CONTROL IN 5G WIRELESS SENSOR NETWORK FOR CHAIN TOPOLOGY
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	mukesh.research24@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/11/2021

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### Application Status

**FORM 2**  
**THE PATENT ACT 1970**  
**(39 OF 1970)**  
**AND**  
**The patent rules, 2003**  
**COMPLETE SPECIFICATION**  
**(See section 10: rule 13)**

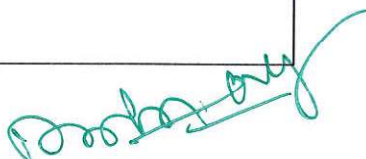
**TITLE OF INVENTION**

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

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ABN: 38 113 072 755

# Notice of filing for your innovation patent application

**Patentable**  
PO Box Q830  
Queen Victoria Building NSW 1230  
Australia

<b>Application number</b>	2021105809
<b>Applicant name</b>	RAJANI B, BALASUBRAMANIAM D, SUNITHA D, RAMKUMAR PRABHU M, GNANASUNDARA JAYARAJA B, MANJUNATH T.C, POONGODI S, MADHURIKKHA S, KARTHIKEYAN S, DILIP SINGH J
<b>Your reference</b>	GOW0016I01AU

## Your progress

- Filed**  
Application is filed
- Acceptance and Grant**  
Application is accepted and patent granted
- Examination**  
Patent is being examined
- Certification**  
Patent is certified (patent is now enforceable)
- Renewal**  
Renewal fees required to maintain patent (fees are due annually- please refer to the 'paid to' date in Australia for your next due date)

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Thank you for filing an innovation patent application with IP Australia.

**Your innovation patent application number is:**  
2021105809

**Your filing date is:** 18 August 2021

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- **Check your details** – attached to this letter are the details of your application. Please review your details to ensure they are correct.

### What will happen next

- **If your application is in order** – your innovation patent will be accepted and granted within four weeks of your filing date. If there are any outstanding matters, we will contact you.
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## Your application summary

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### Innovation patent application details

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**Application number:** 2021105809  
**Title:** SMART SPECTACLES WITH DISPLAY AND REMINDER TECHNIQUES  
**Your reference:** GOW0016101AU

### Documents filed

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A complete specification comprising:

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

An abstract has also been filed.

### Applicant and inventor details

---

**Applicant name(s) and address(es) (as it will appear on certificate/s) :**

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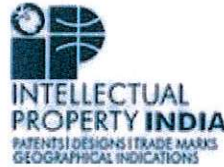
  
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### Application Details

APPLICATION NUMBER	202141031518
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/07/2021
APPLICANT NAME	1 . Dr. SHYLAJA S L 2 . Dr. SHAIK FAIROOZ 3 . Dr. J. VENKATESH 4 . Dr. D. SUNITHA 5 . Dr. R. PRAKASH RAO 6 . Dr.M.RAMKUMAR PRABHU
TITLE OF INVENTION	IOT BASED CROP MONITORING SCHEME USING SMART DEVICE WITH MACHINE LEARNING METHODOLOGY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/07/2021

### Application Status

APPLICATION STATUS

**Awaiting Request for Examination**

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PRINCIPAL  
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Mannivakkam, Chennai - 600 048.

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(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application :13/07/2021

(21) Application No. 202141031518 A  
(43) Publication Date : 16/07/2021

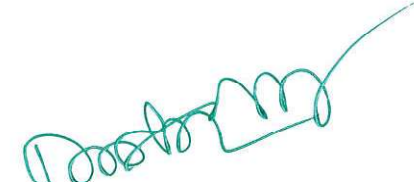
(54) Title of the invention : IOT BASED CROP MONITORING SCHEME USING SMART DEVICE WITH MACHINE LEARNING METHODOLOGY

(51) International classification	: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 2)Dr. SHAIK FAIROOZ 3)Dr. J. VENKATESH 4)Dr. D. SUNITHA 5)Dr. R. PRAKASH RAO 6)Dr.M.RAMKUMAR PRABHU
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. SHYLAJA S L 2)Dr. SHAIK FAIROOZ 3)Dr. J. VENKATESH 4)Dr. D. SUNITHA 5)Dr. R. PRAKASH RAO 6)Dr.M.RAMKUMAR PRABHU
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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

  
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## 2. INVENTOR(S):

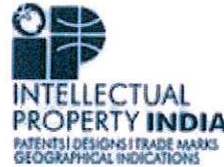
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6	Dr.M.RAMKUMAR PRABHU	India	PROFESSOR & HEAD, DEPARTMENT OF ECE,PERI INSTITUTE OF TECHNOLOGY,CHENNAI, TAMILNADU, INDIA.	India	Tamil Nadu

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

### Application Details

APPLICATION NUMBER	202241024357
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/04/2022
APPLICANT NAME	1 . Dr.Ravi Boda 2 . Ms. A. Deepa Lakshmi 3 . Dr. PYamunaa 4 . Chinu 5 . Dr. S Sathya 6 . Dr. Syed Azahad 7 . R B R Prakash 8 . Dr.J.Senthil Murugan
TITLE OF INVENTION	Smart Parking System Using AI of Things (AIOT)
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	27/05/2022

### Application Status

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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

(21) Application No.202241024357 A

(43) Publication Date : 27/05/2022

(54) Title of the invention : Smart Parking System Using AI of Things (AIOT)

(51) International classification :G08G0001140000, E04H0006340000, B60W0030060000, E04H0006300000, G06Q0020320000  
(86) International Application No Filing Date :PCT// :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number Filing Date :NA :NA  
(62) Divisional to Application Number Filing Date :NA :NA

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(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

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#### Application Details

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TITLE OF INVENTION	AI BASED E-VEHICLE BATTERY POWER MANAGEMENT SYSTEM
FIELD OF INVENTION	PHYSICS
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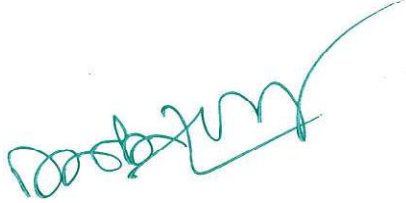
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(51) International classification	:G01R0031367000, H01M0010420000, H02J0007000000, G01R0031384200, G01R0031382800	(71)Name of Applicant : 1)Dr.Kedri Janardhana Address of Applicant :Assistant Professor (Senior Grade), Department of Electrical Engineering, Faculty of Engineering, Dayalbagh Educational Institute (Deemed to be University), Dayalbagh, Agra, Uttar Pradesh, 282005, India Uttar Pradesh India 2)Mrs.Rekha Baghel 3)Dr.T.Vinoth Kumar 4)Dr. K. Rajeshwar Rao 5)Dr.T.Vandarkuzhali 6)Mr.Saravanan D 7)Mr. Aruna kumar Joshi 8)Mrs.B.S.Nalina 9)Mrs.S.L.Sreedevi 10)K.Saravanan
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(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.

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