

(12) PATENT APPLICATION PUBLICATION

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(19) INDIA

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(54) Title of the invention : Context based simulation models using Internet of Things

(51) International classification :G06F0009500000, H04L0001180000, H04L0067120000, H04W0052020000, H04L0067020000
(86) International Application No :PCT//
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(57) Abstract :
[024] The present invention discloses a context-based simulation models using Internet of Things and method thereof. In the present invention, a memory and processing power to choose a feature set consisting of just a feature for the term in isolation; wherein the memory and processing power to initialise the feature's weight to one; using memory and processing power to update the feature's weight; using memory and processing power to perform feature induction; using memory and processing power to create a context model. Further, an IoT device for a running user characterization system to provide information about a current state of a user of the IoT device, the user characterization system modelling the current state with multiple state attributes and including state server modules to supply values for the state attributes, state client modules to process values for the state attributes, and an intermediary module to facilitate exchange of state attribute values. Accompanied Drawing [FIGS. 1-2]

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(19) INDIA

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(43) Publication Date : 17/03/2023

(54) Title of the invention : Condition Monitoring of Aircraft Engines using Artificial Intelligence

(51) International classification :B64D 450000, B64F 056000, G05B 230200, G07C 050000, G07C 050800
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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 :

The aircraft condition monitoring framework is a bunch of methods, assets, arrangements, and strategies that are firmly connected to an equipment and programming framework that performs remote monitoring of plane information to all the more likely grasp its current or future usefulness and execution. Various boundaries that influence the general existence of the aircraft's, for example, Engine EGT, N1rpm, N2 rpm, landing gear up line and down line pressure, oleo tension, withdrawal and expansion timings and so on are examined by the Support Guiding Gathering of that specific association and the outcomes are utilized to appraise the disappointments in the part and vital symptomatic moves are made in the impending support timetable of the aircraft relying upon the seriousness. Condition monitoring resembles a specialist finding infection on a patient with the side effects the individual has. Also by consistently monitoring a few significant boundaries we can keep away from numerous disappointments

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

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO STUDY THE POSITIVE ASPECTS OF VARIOUS BIOENERGY SYSTEMS

(51) International classification :A61B 010600, A61B 050000, G06N 030800, G06N 050200, G06N 200000
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(57) Abstract :

Bioenergy is widely considered a sustainable alternative to fossil fuels. However, large-scale applications of biomass-based energy products are limited due to challenges related to feedstock variability, conversion economics, and supply chain reliability. Machine learning has proven to be a powerful tool for deriving insights from data. In this review, we describe ways in which machine learning has been leveraged to facilitate the development and operation of sustainable energy systems. We first provide a taxonomy of machine learning paradigms and techniques, along with a discussion of their strengths and limitations. We then provide an overview of existing research using machine learning for sustainable energy production, delivery, and storage. Finally, we identify gaps in this literature, propose future research directions, and discuss important considerations for deployment.

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(21) Application No.202341015170 A

(19) INDIA

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(54) Title of the invention : VIRTUAL ASSISTANT FOR AGED PEOPLE USING CONTEXT BASED WEB OF THINGS

(51) International classification :G06F 031600, G06F 094510, G06K 096200, G10L 152200, H04W 040200
(86) International Application No :NA
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(87) International Publication No : NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Health monitoring Virtual Assistants at home and hospitals are essential in helping patients to remember their medication dosage at the right time, alert them about taking medical advice, taking notes etc. Voice based virtual assistants are helping the patients to save cost of in-house caretaker, adhere medication, and more. They train the patients about a procedure, offer health advices of the in accordance to their past health issues, and take care of related information to improve suggestions and experience. The virtual assistant for health monitoring for old age person with the context based system to invoke the voice based assistants to remind the old persons will be of great help to reduce the complete dependency of the caretakers. The ontology need to be build up for the patients history and the recommended procedures to be followed by their physicians consultants. The virtual assistant basically uses the controller information after querying through the web of things search engine and control the necessary devices discovered in the near field of communication or wireless mechanism.

No. of Pages : 5 No. of Claims : 3

(54) Title of the invention : IMPLEMENTATION AND EVALUATION OF A TRUST MODEL USING HEURISTIC TECHNIQUES IN CLOUD

(51) International classification :G06N 200000, G06Q 100600, G06Q 200400, G06Q 201200, H04L 671097

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(57) Abstract :

ABSTRACT OF THE INVENTION Generally, trust refers to confidence or assurance in a set of entities that ensure data security. Trust enables the Cloud users to choose the finest resources in a heterogeneous cloud computing infrastructure. Trust is considered as the foremost parameter to enhance the reliability and integrity of cloud computing resources delivered in the environment of cloud and has a vital part in business environments. Cloud computing has gained significant attention due to its various features. There are different rising concerns in its growth, one of which is security. Trust between provider and a user is the most crucial factor which needs to be considered for achieving security, which is also important to promote various cloud providers' reputation and their offered services. The resource's trustworthiness can be directly related to the performance, which the end-user may see from makespan, a standard benchmark. This work proposes a novel trust model with significant trust parameters (Authentication, Data Integrity, and Confidentiality). This work presents a trust-based solution to calculate a particular cloud service's security strength in terms of a trust model. Trust value has calculated using their key security parameters Authentication, Data Integrity, and Confidentiality. The trust value acts as a means for selecting any cloud service. Pertaining trust models towards scheduling will reduces failure ratio and reassigning of tasks in cloud computing environments. Scheduling belongs to a problem called NP-hard because of its wide solution space. So it takes a longer time for finding an optimal solution but with near-optimal solutions achieved by heuristic and meta-heuristic techniques within the stipulated time. To check the model efficacy, this work implemented and evaluated the trust model for choosing the best resources in task scheduling. The proposed system is integrated with the scheduler using the conventional heuristics algorithms to improve the optimal usage of resources. ('Min-Min', Max-Min, Segmented 'Min-Min', and Enhanced Max-Min) In a scalable cloud computing environment, trust-based task scheduling plays a vital role in selecting the best-optimized resources. The QoS parameters include execution time, cost, and reliability. These parameters are measured using the proposed Trust 'Min-Min', Trust Max-Min, trust segmented 'Min-Min', and trust enhanced Max-Min Scheduling algorithms. The 'Min-Min', Max-Min, Segmented (Partition)'Min-Min', and Enhanced Max-Min heuristic algorithms were based only on the execution time and cost. Hence to enhance the security, the trust factor added to the conventional 'Min-Min', Max-Min, Segmented 'Min-Min', and Enhanced Max-Min algorithms and the time of execution and cost to enhance security and integrity in the cloud. Experimental findings proved the improved performance of the proposed trust-based heuristic scheduling algorithms in terms of schedule length, resource utilization, and success probability, respectively, compared to conventional scheduling.

No. of Pages : 6 No. of Claims : 3

(54) Title of the invention : A DEEP LEARNING BASED INSPECTION DEVICE FOR SHEET HAVING TISSUE STRUCTURE AND IMAGE PROCESSING

(51) International classification :A61F 021000, A61L 273600, A61L 275200, G06N 030800, G06T 070000
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(57) Abstract :

[025] The present invention discloses a deep learning-based inspection device for sheet having tissue structure and image processing and working method thereof. In the present invention, a processor; and a memory containing computer programme instructions that, when carried out by the processor, cause it to carry out activities like identifying a number of landmark candidates for sheet having tissue structure for a target anatomical landmark using an initial shallow deep learning-based detector in the 3D tissue image. Further, a means for utilising a trained deep learning to calculate deeply learned features for each of the plurality of landmark candidates, where the trained deep neural network receives input from corresponding image patches for the plurality of landmark candidates, sparsely samples the voxels in each respective image patch using an adaptive sampling pattern learned during training. Accompanied Drawing [FIGS. 1-2]

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(54) Title of the invention : A NOVEL ANTENNA SYSTEM FOR IOT APPLICATION AND METHOD THEREOF

(51) International classification :H01Q 013200, H01Q 013600, H01Q 013800, H01Q 014800, H01Q 091600
(86) International Application No :PCT//
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(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The proposed invention introduces a novel antenna system designed specifically for Internet of Things (IoT) applications. The antenna system addresses the limitations of traditional antennas in terms of connectivity, communication efficiency, power consumption, and interference mitigation. It offers an adaptable hardware design that accommodates the diverse form factors and integration requirements of IoT devices. Advanced materials and manufacturing techniques are utilized to achieve a compact and lightweight design. The invention includes an optimization method that considers various factors such as antenna placement, radiation pattern analysis, impedance matching, and signal processing algorithms. This method allows for customization and fine-tuning of the antenna system to meet the specific requirements of different IoT applications. The antenna system incorporates artificial intelligence (AI)-based decision-making capabilities, enabling real-time adjustments to optimize performance based on environmental conditions. It supports seamless interoperability with various IoT protocols and standards. Advanced signal processing techniques, interference mitigation algorithms, and energy-efficient designs are incorporated to enhance signal quality, mitigate interference, and minimize power consumption. The proposed antenna system offers an extended communication range, improved reliability, and scalability, contributing to the advancement of IoT technology across various industries. Accompanied Drawing [FIGS. 1-2]

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(54) Title of the invention : ANALYSIS OF THE DEVELOPMENT OF INDIAN GOVERNMENT' E-COMMERCE NETWORK ONDC IN CITIES

(51) International classification :E04H 061800, G01C 210000, G06F 031200, G06Q 300600, G06Q 502600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
ABSTRACT ANALYSIS OF THE DEVELOPMENT OF INDIAN GOVERNMENT' E-COMMERCE NETWORK ONDC IN CITIES The Indian government has been pushing for the development of its E-commerce network, ONDC, as part of its Digital India initiative. ONDC, which stands for Online Network for Domestic Commerce, is an online marketplace created by the Indian government to promote the manufacturing, sales, and distribution of domestically produced goods. It is estimated that ONDC has increased the reach of domestic manufacturing and trading by 70%, linking more than 1.7 Million small and micro-enterprises to the digital platform. ONDC has also enabled better communication between buyers and sellers from different parts of the country, resulting in more efficient and convenient business deals. The Indian government has been undertaking various initiatives to promote ONDC in cities across the country. These include the launch of a mobile app for easy transaction of goods and services and setting up of dedicated government-run Customer Service Centers to provide assistance to customers. Additionally, the government has taken several steps to ensure the speed and security of ONDC transactions by providing platforms like SaleMate and RazorPay for safe and efficient transactions. The adoption of ONDC in cities across the country has been quite successful, with multiple cities surpassing their targets. For instance, Delhi, which set a target of Rs. 100 crores estimated transactions within 3 months, achieved this target way ahead of schedule. Similarly, Jaipur achieved the target of a monthly turnover of Rs. 15 crores, within 2 months

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/07/2023

(21) Application No.202341045183 A

(43) Publication Date : 01/09/2023

(54) Title of the invention : IMPACT OF SMART CLASSROOM IN EDUCATIONAL INSTITUTION USING IOT

(51) International classification :G06Q0050200000, G09B0007000000, G09B0019000000, G09B0005060000, G09B0005120000
(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
Filing Date :NA

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(57) Abstract :

ABSTRACT IMPACT OF SMART CLASSROOM IN EDUCATIONAL INSTITUTION USING IOT Smart classrooms facilitated by the Internet of Things (IoT) revolutionize teaching and learning. Smart classroom implementation has enabled an easy access to a wide range of development methods and materials in the traditional classroom. It has changed the way schools conduct their teaching-learning process, research activities, and assessments. With the deployment of embedded and mobile technologies, intelligent systems, cloud computing, augmented reality and big data; it has opened up opportunities for the use of Artificial Intelligence (AI) in the educational system too. This has triggered the process of transformation of traditional classrooms into modern interactive learning classrooms for the 21st century. Smart classroom implementation enhances the quality of teaching and encourages dynamic and interactive learning. It has a positive impact by enabling teachers to plan student sessions according to the differentiated learning paths of individual students. It helps to assess the individual learning patterns of each student, allowing for a personalized learning experience. Likewise, students benefit greatly from smart classroom implementation. They can access course materials, get feedback from the teacher quickly during the class, just-in-time personalized guidance and an easy tracking of their learning progress. With the use of digital tools, it enables them to interpret and analyze data more quickly and clearly, leading to better interpretations. The educational institutions benefit on multiple levels through efficient teaching-learning process in the classrooms, easier assessment procedures, streamlined research process and smooth student-teacher interactions. The implementation of smart classroom using IoT in educational institutions yields lasting, positive results.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : Visual Mapping for missing child detection using KNN

(51) International classification :G06K0009620000, G08B0021020000, G06N0003080000, G06N0003040000, G06N0005000000

(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 :

Missing children's becoming a concern in the globe particularly in India, as more number of missing children is reported in day today life. This issue switches the research community to spotlight on this era. Several theories and models have been proposed to mitigate this issue, however almost all techniques use conventional methods such as register complaints, face recognition using image processing algorithms. No doubt these methods fulfill the gap of missing child, but may not be optimum because of detection delay and success rate. Moreover few authors presented deep learning concept to improve the detection process of missing child, though deep learning is used to overcome the issue of delay and success rate, but needs huge data set to train the model which is not available in the respective police station at the time of registering FIR. In this work we use the face recognition module of deep learning to extract the landmarks from the face and encode it to give the feature vector, latter KNN is used to classify the feature vectors of the image extracted by deep learning. The presented approach minimizes the delay and improves the success rate to identify the missing child

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/09/2023

(21) Application No.202341061557 A

(43) Publication Date : 06/10/2023

(54) Title of the invention : UNIDIRECTIONAL WIRELESS ELECTRIC VEHICLE CHARGER WITH MULTI-LEVEL PFC BOOST CONVERTER

(51) International classification :H02M0001420000, H02J0050120000, H02J0007020000, H02M0001000000, H02J0007000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)CVR COLLEGE OF ENGINEERING Address of Applicant :CVR COLLEGE OF ENGINEERING, Vastunagar, Mangalpalli (V), Ibrahimpatnam (M) Hyderabad ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Ch. Lokeshwar Reddy Address of Applicant :Department of Electrical and Electronics Engineering, CVR COLLEGE OF ENGINEERING, Vastunagar. Mangalpalli (V), Ibrahimpatnam (M), 501510 Hyderabad ----- ----- 2)Dr. S. Venkateshwarlu Address of Applicant :Department of Electrical and Electronics Engineering, CVR COLLEGE OF ENGINEERING, Vastunagar. Mangalpalli (V), Ibrahimpatnam (M), 501510 Hyderabad ----- ----- 3)Dr. K. S. V. Phani Kumar Address of Applicant :Department of Electrical and Electronics Engineering, CVR COLLEGE OF ENGINEERING, Vastunagar. Mangalpalli (V), Ibrahimpatnam (M), 501510 Hyderabad ----- ----- 4)Dr. M. Sharanya Address of Applicant :Department of Electrical Engineering, Malla Reddy College of Engineering and Technology, 500100 Hyderabad ----- ----- 5)Dr. JVG Rama Rao Address of Applicant :Department of Electrical and Electronics Engineering, BVC Institute of Technology and Science, Amalapuram, AP- 533221, India Hyderabad ----- -----
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(57) Abstract :

The present invention is a unidirectional wireless electric vehicle (EV) charging system featuring a multi-level power factor correction (PFC) boost converter rectifier. The system aims to enhance power conversion capabilities while addressing challenges in wireless power transfer alignment. The system comprises an AC source, a high-frequency inverter, a battery, and a regulated rectifier converter for controlled power flow between the EV and a roadside resonant Low-Current Charging (LCC) network. The proposed multi-level PFC boost converter rectifier employs advanced switching techniques, achieving multiple output voltage levels at a 5 kHz switching frequency. The control system integrates hysteresis current control and cascaded loops for improved efficiency and waveform quality. This system showcases enhanced efficiency, high power flow capacity, and reduced harmonic content, highlighting its potential for advancing wireless EV charging technology.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/09/2023

(21) Application No.202331064062 A

(43) Publication Date : 06/10/2023

(54) Title of the invention : FUEL PMMA-PBAC-ALF3 AND OXIDIZER NITROCELLULOSE DIFLUORAMINE BASED SOLID ROCKET MOTOR TEST BENCH

(51) International classification :F02K0009720000, C06B0043000000, B64G0001400000, F03H0001000000, F02K0009970000

(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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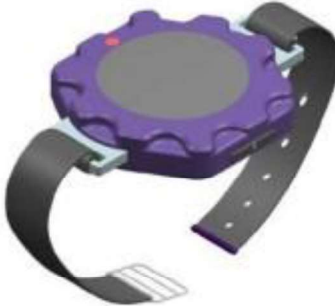
(57) Abstract :

Solid rocket motors are simple in design and manufacturing. The need for a propellant that produces the same specific impulse as a hybrid rocket engine. So, it is desirable to have a solid rocket motor with a high specific impulse and a decent combustion chamber temperature at a reasonable O/F ratio. For a healthy ecology, low-cost, highly effective, and environmentally friendly propellant is constantly desired. As a superior alternative among the already used fuels in the sector, we have suggested PMMA, PBAC, ALH3, as a fuel and Nitrocellulose, Difluoramine as an oxidizer. We have PMMA, PBAC, ALH3, as fuel and Nitrocellulose, Difluoramine as an oxidizer to improve the specific impulse of the propellant. The required O/F ratio for the technical criteria was found to result in a higher specific impulse. With the features discovered through analytical research, we have suggested a design for the SRM that includes post-combustion, which creates the innovative elements of the existing SRM.

No. of Pages : 9 No. of Claims : 3

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Date of Registration	22/03/2023	
Title	IOT BASED BIOGAS LEAKAGE DETECTING DEVICE	
Priority NA		

Design Number	392055-001	
Class	11-01	
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Date of Registration	05/08/2023	
Title	JEWELLERY	
Priority NA		

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Date of Registration	10/08/2023	
Title	MACHINE LEARNING EMBEDDED HEART HEALTH MONITORING DEVICE	
Priority NA		

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341068914 A

(19) INDIA

(22) Date of filing of Application :12/10/2023

(43) Publication Date : 03/11/2023

(54) Title of the invention : IOT BASED SMART AGRICULTURE FOR PREDICTING WATER REQUIREMENT, LIVE TEMPERATURE AND HUMIDITY MONITORING IN AGRICULTURE SECTOR USING BIG DATA AND MACHINE LEARNING

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

(57) Abstract :

IoT based Smart Agriculture for predicting Water Requirement, Live Temperature and Humidity Monitoring in Agriculture sector using Big data and Machine Learning ABSTRACT: Throughout history, agriculture has consistently been a prominent and enduring activity. Throughout its history, the field of agriculture has undergone numerous transformations aimed at enhancing both productivity and the overall quality of products. Agriculture has a crucial role in meeting the nutritional needs of humanity and providing essential raw materials for many industries, making it the primary and essential vocation in India. The continuous development of innovative agricultural methods is progressively augmenting crop productivity, resulting in increased profitability and decreased water loss in irrigation practises. The model under consideration is an intelligent irrigation system that utilises a machine learning algorithm to forecast the water needs of a specific crop. Moisture, temperature, and humidity are the three fundamental elements that play a crucial role in determining the optimal water requirements for agricultural fields. The system consists of a combination of temperature, humidity, and moisture sensors that are deployed in an agricultural field. These sensors collect data and transmit it through a microprocessor, ultimately creating an Internet of Things (IoT) device that is connected to a cloud platform. The decision tree method, which is a very effective machine learning algorithm, is utilised to analyse the data collected from the field and make accurate predictions in an efficient manner. The outcomes derived from the implementation of the decision tree algorithm are communicated to farmers via email notifications. This facilitates informed decision-making in relation to water availability, allowing for proactive measures to be taken.

No. of Pages : 12 No. of Claims : 7