(12) PATENT APPLICATION PUBLICATION
(21) Application No.201941008409 A
(19) INDIA
(22) Date of filing of Application :05/03/2019
(43) Publication Date : 05/04/2019

(54) Title of the invention : AUTOMATED MEDICINE DISPENSING MACHINE FOR WAR FIELDS

(51) International classification :G07F11/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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 :
The Automated Medicine Dispensing Machine (AMDM) is a computerized drug storage device or drug cabinet designed for hospitals and landmarks. AMDMs allow medications to be stored and dispensed near the point of care while controlling and tracking drug distribution. They also are called unit-based cabinets (UBCs), automated dispensing devices (ADDs), automated distribution cabinets or automated pharmacy cabinets (APCs).Automated dispensing is a pharmacy practice in which a device dispenses medications and fills prescriptions. AMDM which can potentially handle more than one of different medications, are available from a number of manufacturers. The expired medicine can also be avoided by using this AMDM. The Automated Medicine Dispensing Machine (AMDM)) has display unit, Scanner and Output unit. A person with prescription or without prescription or with RFID tag can access this AMDM to buy the medicine. The AMDM can be used in hospitals, airports, railway.station, schools, etc. In hospitals, the user has the prescription sheet/RFID tag scanned by the scanner. The display unit displays the prescribed medicine with specified count and asks for the required count. If the required count is less than or equal to the specified count, then AMDM is connected to server for money transaction process. When the server is linked the user has to enter the account number with password. « After successful money transaction, AMDM deliver the medicine to the output unit. Whereas in case of emergency needs the user will not have prescription sheet. Under that condition, the keypad consists of three languages in which two are common (English & Hindi) and third language depends on the area (useful for layman also) in which AMDM locates. The user has to enter the required medicine with count. The entered count value should be less than or equal to threshold value (which is provided by the medical authority). If the condition is satisfied, AMDM delivers the medicine after successful money transaction process. Such type of AMDM is useful in case of schools, airports, railway station, etc. The serverwill send a message to pharmacist under following conditions If the medicine is under expired condition AMDM does not delivers the particular medicine. If the required medicine is not available. If the user requires for other company medicine.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/10/2019

(21) Application No.201941043307 A
(43) Publication Date : 01/11/2019

(54) Title of the invention : AN ARTIFICIALLY INTELLIGENT SYSTEM AND METHOD FOR INTEGRATED IRRIGATION MANAGEMENT

(51) International classification :G05B19/04
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :
An artificially intelligent system and method for integrated irrigation management for a agricultural lands, that comprises a Wi-Fi module, a set of sensors configured to sense various parameters of the soil and the plant life; another set of sensors to determine the availability of water in a storage medium; and a processor coupled with a memory with instructions stored to extract the parameters from the generated signals based on the sensors; and compare the extracted parameters with pre-defined parameters stored in the database, wherein based on the comparison generate signals, using a control unit to turn on and off devices within the system and send notifications of alert through a visual or an audible mediums to the users providing for overrides.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/10/2019

(21) Application No.201941044255 A
(43) Publication Date : 29/11/2019

(54) Title of the invention : A METHOD FOR ANALYZING FACIAL EXPRESSIONS OF DOWN SYNDROME CHILDREN USING VIOLA JONE TECHNIQUE

(51) International classification :G09B19/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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 :
Down Syndrome (Trisomy 21) is a hereditary issue, individuals influenced by this infection having quite certain facial qualities that emerge from a hereditary anomaly, whereby an individual has three duplicates of chromosome 21 rather than two. Kids with Down Syndrome commonly have particular facial attributes, which brings an open door for the Computer-helped recognition of Down Syndrome utilizing photos of patients. This invention adjust an activity intended to achieve a long-haul period or by and large objective essentially dependent on some outstanding face acknowledgment techniques to perceive the feelings of the Down Syndrome kid. The capacity to perceive Down Syndrome facial feelings is critical for parent relationship and social modification. The results of this venture exhibit that the system could aid Down Syndrome screening viably in a basic, non-obtrusive way.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/08/2019

(21) Application No.201941032161 A
(43) Publication Date : 23/08/2019

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF KITCHEN MONITORING SYSTEM USING RASPBERRY PI

(51) International classification :H04L12/28
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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 :
The design and development of a smart monitoring and controlling system for kitchen environment in real time has been explained in this paper. The system which monitors kitchen environment parameters such as light intensity, room temperature, fire detection, motion detection and LPG gas level, has been developed. The system can monitor the status of kitchen and sends an alert SMS via GSM network automatically, if the conditions get abnormal, to a concerned authorities mobile phone. The concerned authority can control the system through his mobile phone by sending SMS to GSM MODEM. This system finds a wide application in areas where physical presence is not possible all the time. The system offers a complete, low cost, powerful and user friendly way of realtime monitoring and remote control of kitchen. A prototype model is developed and tested with high accuracy result.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/06/2020

(21) Application No.202041026135 A
(43) Publication Date : 03/07/2020

(54) Title of the invention : A METHOD OF AN ARTIFICIALLY INTELLIGENT BUILD REPOSITORY MANAGEMENT SYSTEM

(51) International classification	:G06F 8/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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 :
The present invention relates to a kind of library management, including intelligent bookshelf, Robot body, intelligent reading-desk, Cloud library management system. The Intelligent bookshelf includes wireless single chip, Books place position, First positioning device, Lighting system, the books place position bottom surface and are equipped with luminance sensor, the robot body includes the first RFID scanner, GPS navigation system, Information processing system, Drive system, Lending system, give back system, First ID Card recognition System. The intelligence reading-desk includes decibel detection device, second touch screen, books recycle window, second ID Card Recognition System, second RFID scanner, calling device, prompt system, Information flag system is additionally provided with inside the decibel detection device, when second identifying system detects the identity card of user, second touch screen shows that the history of user reads performance situation.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/06/2020

(21) Application No.202041026136 A
(43) Publication Date : 03/07/2020

(54) Title of the invention : SYSTEM AND METHOD OF CLOUD COMPUTING BASED INTEGRATED CONTROL FOR GREEN HOUSES

(51) International classification :H04L 29/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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 :
The present invention discloses an integrated, intelligent control system for greenhouses comprising: a cloud server 107, greenhouse intelligent control module 101; remote control system 106 accessing the server and control module through a network 104; greenhouse environmental parameter detection system and transmission module. The said system 100 is capable of controlling a plurality of greenhouses at different locations at any point of time from a remote location that are connected to a network and to each other; and the respective control modules 101 of any said greenhouse house shall also be controlled by the user through a computing platform such as IOT / Android / Microsoft. Any actions to be performed by way of management and control is capable of being performed from remote locations and by way of user advise system controlled through a cloud server 107 and a central control system 106 using the interconnected internet / intranet communication module 104.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/06/2020

(21) Application No.202041026136 A
(43) Publication Date : 03/07/2020

(54) Title of the invention : SYSTEM AND METHOD OF CLOUD COMPUTING BASED INTEGRATED CONTROL FOR GREEN HOUSES

(51) International classification :H04L 29/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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 :
The present invention discloses an integrated, intelligent control system for greenhouses comprising: a cloud server 107, greenhouse intelligent control module 101; remote control system 106 accessing the server and control module through a network 104; greenhouse environmental parameter detection system and transmission module. The said system 100 is capable of controlling a plurality of greenhouses at different locations at any point of time from a remote location that are connected to a network and to each other; and the respective control modules 101 of any said greenhouse house shall also be controlled by the user through a computing platform such as IOT / Android / Microsoft. Any actions to be performed by way of management and control is capable of being performed from remote locations and by way of user advise system controlled through a cloud server 107 and a central control system 106 using the interconnected internet / intranet communication module 104.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2021

(21) Application No.202141016449 A
(43) Publication Date : 23/04/2021

(54) Title of the invention : A METHOD FOR DESIGNING AND AUTO-EMAILING E-CERTIFICATES

(51) International classification	:H04L0009320000, G09B0019000000, G06Q0090000000, G06Q0099000000, G06Q0010100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(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 :
In this knowledge powered world, one always thrives to prove or project their own knowledge. Similarly, it has always been the human tradition to appreciate true talent and also celebrate one™s knowledge. The best possible way to do both these things is by certifying the particular individual for their achievements with a certificate. In the modern times, distribution of a certificate has become a common practice in all the conventions, conferences, etc. This popularity alone has created a need for designing the certificate in a more unique and creative manner. But not every user likes the templates given by the designer and hence requests for a personal touch in the design of the certificate which makes them feel that the certificate is unique in its own way. This paper tries to provide a solution for this challenge by providing a first in its kind website which helps the user in designing a certificate and then using it to his desired purpose. This project aims to ease the process of certificate designing and also distributing. Here, the user can develop an E-Certificate which is portable and can be circulated easily.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2021

(21) Application No.202141016407 A
(43) Publication Date : 23/04/2021

(54) Title of the invention : A METHOD FOR WORKING OF IOT BASED SMART SYSTEMS IN 5G NETWORK

(51) International classification	:H04B0007041300, H04L0029060000, H04B0007060000, H04B0007024000, H04L0029080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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 :
The Internet of Things (IoT)-centric concepts like augmented reality, high resolution video streaming, self-driven cars, smart environment, e-health care, etc. have a ubiquitous presence now. These applications require higher data-rates, large bandwidth, increased capacity, low latency and high throughput. In light of these emerging concepts, IoT has revolutionized the world by providing seamless connectivity between heterogeneous networks (HetNets). The eventual aim of IoT is to introduce the plug and play technology providing the end-user, ease of operation, remotely access control and configurability. Fifth Generation (5G) cellular networks provide key enabling technologies for ubiquitous deployment of the IoT technology. These include carrier aggregation, multiple-input multipleoutput (MIMO), massive-MIMO (M-MIMO), coordinated multipoint processing (CoMP), device-to-device (D2D) communications, centralized radio access network (CRAN), software-defined wireless sensor networking (SD-WSN), network function virtualization (NFV) and cognitive radios (CRs).

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/04/2021

(21) Application No.202141017893 A
(43) Publication Date : 11/06/2021

(54) Title of the invention : A METHOD FOR EFFICIENT AND FASTER MACHINE LEARNING TECHNIQUE

(51) International classification	:G06N0020000000, G06F0030332300, G06F0016350000, G06K0009620000, A61B0017000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(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 :
The present invention depicts simple and efficient method for interactively learning non-binary concepts in the learning from random counter-examples (LRC) model. Here, learning takes place from random counter-examples that the learner receives in response to their proper equivalence queries, and the learning time is the number of counter-examples needed by the learner to identify the target concept. Such learning is particularly suited for online ranking, classification, clustering, etc., where machine learning models must be used before they are fully trained.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202141016392 A
(19) INDIA
(22) Date of filing of Application :07/04/2021
(43) Publication Date : 23/04/2021

(54) Title of the invention : SMART VIRTUAL ATTENDANCE FOR THE STUDENTS ATTENDING THE CLASS

(51) International classification	:G06Q0050200000, G07C0001100000, H04L0029080000, G06K0009000000, G06Q0030060000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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 :
SMART VIRTUAL ATTENDANCE FOR THE STUDENTS ATTENDING THE CLASS In the Covid-19 pandemic period, most educational institutions and student communities are forced to do their teaching and learning process in virtual online mode. Recent technology allows the teaching and learning process very smoothly while the monitoring of the students ischallenging. The proposed system solves issues of tracking and monitoring student's activity in the virtual online classroom.IoT-based smart devices are used to capture students' videos frequently and make sure the students' activities in the online classroom. AI-based camera is used to capture the videos, and it can communicate the data from the online classroom to the cloud storage. The deep learning-based human activities recognition algorithm is performed the tracking and monitoring process. Python language is used to implementing the overall system. High speed data process is ensured in the proposed hardware setup to maintain the quality output. Cloud data storage is created for the data collection and access the trained dataset for recognition. Smart attendance is monitoring from this setup and stored in the cloud storage. [To be published with figure 1]

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202141051630 A
(43) Publication Date : 26/11/2021

(54) Title of the invention : SENSOR FUSION WITH MACHINE LEARNING FOR THE DETECTION OF DANGEROUS DRIVER BEHAVIOR

(51) International classification	:B60W0040090000, G06N0003080000, G06N0003040000, G07C0005080000, G08B0021060000
(86) International Application No Filing Date	:NA :NA
(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 :
Human sleepiness, inattention, or drowsiness are the leading causes of driving accidents. Using in-car sensor signals such as vehicle and engine speed, throttle position, and engine load, machine learning technology has recently been utilized to reliably identify driving styles and recognize unsafe behaviors. We investigated using external sensors like a gyroscope and a magnetometer in conjunction with in-vehicle sensors to improve machine learning detection of unsafe driving behavior. Based on such signals, we created a set of features that can accurately describe the driver's behavior. After that, a CNN and an artificial neural network were trained and evaluated using many features calculated over a 200-kilometer journey. The ground truth needed to evaluate categorization performance was being established using an objective methodology based on the vehicle's speed, lateral, and longitudinal acceleration. CNN confirmed that the proposed methodology has the capacity to detect unsafe driving habits.

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

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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

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Application Details	
APPLICATION NUMBER	202241037488
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/06/2022
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/07/2022

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2021

(21) Application No.202141053553 A
(43) Publication Date : 10/12/2021

(54) Title of the invention : DESIGN AND DEVELOPMENT OF SMART PORTABLE SYSTEM FOR UNDERGROUND PIPELINE LEAKAGE MONITORING BASED ON

(51) International classification :G08C0017020000, C02F0001440000, F17D0005060000, G01M0003280000, G05B0019042000
(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 :
For the purpose of irrigation, the fresh water has to travel long distance through water pipes S which is the one form of the system. There is no denying that water is the world's most valuable resource. Tremendous amount of water is wasted all over the world due to leakage in water pipelines. Wisely waste water should be stopped in order to use this advantage. This concept improves the way water pressure is monitored and leakage is detected'in the pipeline. All of the pipelines are installed with an observatory set that includes a monitor and pair of 10 pressure and water quality sensors. Continuously uploads the sensor data to the cloud.server. The processor sends a warning message to the workers concerned when pressure is below the predefined level; and under the relentless pressure, when water quality decorates. In order to post to server, we need internet access. However, alerts can be sent by SMS service which works on GPRS even in the absence of internet.

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