(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2018

(21) Application No.201841038944 A
(43) Publication Date : 19/10/2018

(54) Title of the invention : A SYSTEM FOR DETECTION OF WORMS IN TRANSMISSION SYSTEM

(51) International classification :G06F21/00
(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 :
In accordance with the present invention, a simulation and inspection of worm transmission system for use with a mobile ad-hoc network (MANET) includes an infection detection module receiving temporal dynamics information relating to temporal dynamics of worm spread in the MANET and spatial dynamics information relating to spatiality of nodes in the MANET. The infection detection module detects infection in a network segment of the MANET based on the temporal dynamics information and the spatial dynamics information.

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/08/2018

(21) Application No.201841031865 A
(43) Publication Date : 31/08/2018

(54) Title of the invention : SMART SELF-POWER GENERATING AND MOVING TRASH COLLECTOR

(51) International classification :B65F 1/00
(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 a device which separates the degradable and non-degradable matter and converts a bio gas of the degradable matter into electricity: said device comprising a device cap, a collection unit, a degradable waste storage chamber, a non-degradable waste storage chamber, a power generation unit, a plurality of wheels, a plurality of sensors, a microcontroller and processor, a display, a GPRS IOT, a motor driver and a pick and place assembly. The device separates the degradable and non-degradable wastes and converts the bio gas of the degradable waste into electricity and sends message through GSM module to the trash management when the Trash Collector is filled completely as sensed by the IR sensor. The pick and place assembly is based on image processing of dust by surveillance and it moves to a corresponding place to collect the dust using the motor driver and the four wheels and can be called a user using Wi-Fi or other wireless communication.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/04/2019

(21) Application No.201941013595 A
(43) Publication Date : 26/04/2019

(54) Title of the invention : SMART FOOD STORAGE SYSTEM

(51) International classification	:G06K19/06
(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
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(57) Abstract :
A smart food storage system and method for tracking states of stored food is disclosed. The disclosed system and method are based on a container to store one or more food items; one or more sensors configured with the container to detect or scan the stored food items to extract one or more attributes data associated with food information of the food items; processors coupled with a memory, the memory comprising a set of instructions embodied in the memory that is executable by the processors to compare the extracted one or more attributes data with a predefined stored data in a database to determine sates comprising any or a combination of fresh, semi-spoiled, spoiled, and expired status of the food items; and a display unit operatively coupled with the processors to display the determined states of the stored food items.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2019

(21) Application No.201911018925 A
(43) Publication Date : 05/07/2019

(54) Title of the invention : IS-FAN: INTELLIGENT SEILING FAN

(51) International classification :F04D25/088
(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
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(57) Abstract :
Present invention is related to fan and their technology to control through voice input Through voice the fan can start, increase, decrease speed. A ceiling fan is a mechanical fan mounted on the ceiling of a room or space, usually electrically powered, suspended from the ceiling of a room that uses hub-mounted rotating blades to circulate air, The present invention resolve one or more of the deficiencies in existing ceiling fans by using a high efficiency Electronically Commutated (EC) motor in a Totally Enclosed Non-Ventilated (TENV) design. An EC motor has rotor poles provided by permanent magnetic materials, such as Ceramic or Neodymium Iron Boron, which do not consume any electrical power. This allows an EC ceiling fan motor to run with substantially lower losses than a comparatively rated AC induction motor.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/05/2019

(21) Application No.201941018711 A
(43) Publication Date : 07/06/2019

(54) Title of the invention : SDCC-DEVICE: STRANGELY DETECT AND CONTROL CYBERCRIME DEVICE

(51) International classification :G06F21/00
(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 :
This invention is to designed and identifies cyber users as a strategy to detect and control cybercrime. The motivation was premised on the fact that every cyber user must create some impressions which are verifiable to identify him. The methodology adopted is the object oriented paradigm of system analysis and design. The crime scenario considered for detection is phasing, identity theft and data theft. The platform for implementation of the system is PHP ,java and Anguler-2. MySQL was used as the database. The hardware used for implementation has inbuilt webcam or attached digital camera for facial image capturing, a Real time-GPS sensor to locate a cyber-user™s position, and a fingerprint scanner. The invention is modeled to provide interfaces to capture the digital signatures, Biometric input, for each information sent to the cyberspace, the user™s fingerprints and facial image as mandatory login parameters, identify and record the geographical location of the user, the MAC address of the system used, the date, time and the kind of action carried out by the user while online, then record security threats for further investigation by cybercrime investigators. The results showed that the system can genuinely identify the cyber user and his/her criminal activities while online. Also this invention is providing the strongest tool to detect the cybercrime with real time. We are used as a first line of defence against this unusual sort of crime Since cybercrime is like a smart key, we can build a smarter keyhole to detect illegal entry. We can do that by detecting attempts to pick the lock. Smart locks can detect smart crimes. Cybercrime detection acts like a smart lock, and so detection of cybercrime (picking the lock) involves monitoring computers, computer networks, and network servers that play important roles in information systems. Sometimes we classify cybercrime using cyber-attack at an advanced cybercrime (high-tech crime) these are sophisticated attacks against computer hardware and software - like online scams (fraud), identity theft, email spam, and phishing. In other words, advanced cybercrime is using a computer to attack other computers.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/07/2019

(21) Application No.201941028829 A
(43) Publication Date : 16/08/2019

(54) Title of the invention : SYSTEM FOR IMPROVING THE PERFORMANCE OF THE BATTERY DRIVEN DEVICES

(51) International classification :H01M10/42
(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
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(57) Abstract :
The present invention relates to a system and method for improving the performance of the battery driven devices. The object of the proposed invention is to improve the discbarging efficiency of the battery which is used as energy source for portable electronic and electrical appliances by adopting the different techniques based on electrochemistry properties of a battery. The techniques proposed here analyze the detrimental effects of recovery effect, thermal and rate capacity effect and ways to mitigate them. Also, maintaining the battery module/set at optimum temperature would mitigate the undesirable effect of internal resistance of the battery. It is envisaged that with the proposed techniques the lifetime of the battery can be extended by 20% to 30%.Following invention is described in detail with the help of Figure 1 of sheet 1 and Figure 2 of sheet 2 showing the flow chart of the proposed invention.

No. of Pages : 15 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/11/2019
(21) Application No.201941047189 A
(43) Publication Date : 29/11/2019

(54) Title of the invention : SYSTEM AND METHOD FOR ELIMINATING ARTIFACTS IN ELECTROCARDIOGRAM SIGNALS

(51) International classification	:A61B5/0428
(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 :
SYSTEM AND METHOD FOR ELIMINATING ARTIFACTS IN ELECTROCARDIOGRAM SIGNALS Exemplary embodiments the present disclosure are directed towards a system for eliminating artifacts in electrocardiogram signals, comprising a computing device comprising an error normalized kalman adaptive noise canceller module configured to eliminate one or more artifacts in one or more electrocardiogram signals, wherein the one or more acquired signals from the patient are in general is a composition of the original heart activity and artifact component. FIG. 1.

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/12/2019

(21) Application No.201941050858 A
(43) Publication Date : 13/12/2019

(54) Title of the invention : MOBILE AD HOC NETWORK MULTICAST ROUTING METHOD FOR REDUCTION OF INFORMATION TRANSMISSION

(51) International classification	:H04W40/08
(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
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(57) Abstract :
The present invention disclosure is related to mobile ad hoc network multicast routing method for reduction of information transmission. The objective of the present invention to overcome the inadequacies of the prior art in mobile ad hoc network multicast routing.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2019

(21) Application No.201941045814 A
(43) Publication Date : 29/11/2019

(54) Title of the invention : FA-IATM : FINGERPRINT AND PIN(6-DIGIT) AUTHENTICATION TO ENHACE SECURITY THE INTELLIGENT AUTOMATIC TELLER MACHINE

(51) International classification :H04W4/02
(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
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(57) Abstract :
FA-IATM : FINGERPRINT AND PIN(6-DIGIT) AUTHENTICATION TO ENHACE SECURITY THE INTELLIGENT AUTOMATIC TELLER MACHINE [330] ABSTRACT In my Invention FA-IATM • we develop to add more security (biometric , pin(6-digit, mobile sensing) to the current ATM Systems. By using Biometric Authentication and mobile sensing, we can overcome many of the flaws introduced by our current ATM system such as shoulder surfing, use of skimming device, etc. In our FA-IATM • system, Bankers will collect the customer™s as well as respective nominee™s fingerprint and mobile number at the time of opening the account. The primary step is to verify currently provided fingerprint with the fingerprint which is registered in the Bank™s database at the time of account opening. If the two fingerprints get matched, then a message will be delivered immediately to the card holder and if they verify and enter amount only then and only then they can collect the cash from the ATM. It is a highly secured Automatic Teller Machine banking system using an optimized Advanced Encryption Standard (AES) algorithm , and other algorithm can also used for optimize result . For every transaction, new sensing message(i.e verified or not verified) will be sent to account holder™s mobile phone, e- mail.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201941037099 A
(19) INDIA
(22) Date of filing of Application :15/09/2019
(43) Publication Date : 20/09/2019

(54) Title of the invention : INTERNET OF THINGS [IOT] ENABLED MULTIPURPOSE CHAIR

(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
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(57) Abstract :
In everyday life the chair is essential for every individual. In the places like house, office and hospitals, the chair is using for long duration. The proposed system is a IoT technology enabled multi-purpose chair, that can be used in home, office and hospitals by implanting/attaching the health sensors like AD8232-Ecg sensor, BP sensor, LM35 temperature sensor, veneir blood pressure sensor, and weight sensor to the node MCU micro-controller together with the thing speak cloud platform and IFTTT technology. With this the office head can know the duration of the hours of his employee that who is sitting in chair. Similarly the doctors can know the immediate health conditions of the patients. Similarly the person who is sitting on the chair can control the home appliances from on chair itself. In this proposed system will get both the local and global alerts with the help of the buzzers and the SMS. This system will lead to monitor the employees, patients and appliances remotely.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/05/2020
(21) Application No.202041022294 A
(43) Publication Date : 12/06/2020

(54) Title of the invention : AN APPROACH FOR HIGH SPEED AND SECURE BACK PROPAGATION LEARNING USING UPRIGHT PARTITIONED DATA WITH IOT

(51) International classification	:G06Q0010100000, G06F0021620000, G06N0003080000, H04L0009080000, H04L0009320000
(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
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(57) Abstract :
Learning accuracy is improved by practicing multiple partiesâ€™ collaboration that conducts back propagation jointly with neu ral network that combines the data sets from both. None of the party discloses the private data during this process to other parties. This type of collaborative learning is supported by the existing schemes that are limited in the partition of data or by considering only two parties. Collaborative learning conduction is done by the partitioned data set allowing two or more parties lacking the solution. This invention solves the problem by using the cloud computing power. Private data of each party is encrypted locally and uploaded in the cloud with its cipher texts. Operations involved in the learning algorithm are executed by the cloud over the cipher texts without the knowledge of original data of a private party. Expensive operations are offloaded securely to the cloud for minimizing the communication and computation cost. Flexible operations are supported over cipher texts by the encryption algorithm.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/08/2020

(21) Application No.202041033267 A
(43) Publication Date : 21/08/2020

(54) Title of the invention : INTERNET OF THINGS (IOT) ENABLED SMART CAMERA FOR AUTOMATIC ATTENDANCE MANAGEMENT SYSTEM OF A STUDENTS / EMPLOYEES BASED ON THE DEEP LEARNING APPROACH

(51) International classification :H04L 29/08
(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
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(57) Abstract :
Day to Day, various technologies like IoT and deep learning are growing a lot. With this advancement in technologies, it has applications almost in various disciplines like healthcare, agriculture, education system, constructions fields and any offices / corporate buildings. Every day in all fields need to take the attendance of the employees or students in academic institutions. The existing technologies are involved with a lot of manual processing, to reduce this manual processing here the proposed product will automatically generate the attendance report of every individual separately in terms of hours. This product consists of the camera equipped with the sensors and connected to the cloud. In cloud the deep learning approaches are used to generate the automatic attendance system by using the deep face, a deep learning approach. With this Proposed IoT based camera and by deep learning approaches the automatic attendance management systems was developed.

No. of Pages : 13 No. of Claims : 4

Australian Government

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CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020103274

The Commissioner of Patents has granted the above patent on 23 December 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

A SMART AND CENTRALISED DEVICE TO FIND OUT THE IMMOVABLE THINGS

Name of inventor(s):

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Term of Patent:

Eight years from 5 November 2020

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 23rd day of December 2020

Commissioner of Patents

Australian Government
IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2020103274

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

COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

Dated this 23rd day of December 2020

Commissioner of Patents

PATENTS ACT 1990

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

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

(1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

(a) a declaration that the threats are unjustifiable; and

(b) an injunction against the continuance of the threats; and

(c) the recovery of any damages sustained by the applicant as a result of the threats.

(2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

Certain threats of infringement proceedings are always unjustifiable.

(1) If:

(a) a person:

(i) has applied for an innovation patent, but the application has not been determined; or

(ii) has an innovation patent that has not been certified; and

(b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;

then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

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

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

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

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

Schedule 1 **Dictionary**

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202041053704 A
(19) INDIA
(22) Date of filing of Application :10/12/2020
(43) Publication Date : 18/12/2020

(54) Title of the invention : SOLAR WIND PROPELLER

(51) International classification :F03D9/007
(31) Priority Document No :NA
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(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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Filing Date :NA

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(57) Abstract :
To produce current at low cost with no pollution because around the industries producing current there is a lot of pollution. Due to this pollution the people are being affected with some deadly diseases. So to overcome this problem to some extent we came up with this idea of developing equipment. The product can have repeated purchases from a user because if he install more number of equipments they can get a large output beyond what they thought. With one equipment they can get a large output but if they needed more than that they can purchase more equipment. There will be no disturbances in the equipment up to the maximum life of the product. As per the changes and for other changes we always provide services

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/12/2020

(21) Application No.202041053761 A
(43) Publication Date : 18/12/2020

(54) Title of the invention : CUTTING CHILLIES AND PROTECTING THEM WHILE DRYING DURING RAINFALL

(51) International classification :B26D1/0006
(31) Priority Document No :NA
(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

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(57) Abstract :
Abstract This invention the Chilly is considered as one of the commercial spice crops. It is the most widely used universal spice, named as wonder spice. Different varieties are cultivated for various uses like vegetable, pickles, spice and condiments. In daily life, chillies are the most important ingredient in many different cuisines around the world as it adds pungency, taste, flavor and color to the dishes. The Indian chilly is considered to be world famous for two important commercial qualities namely, its color and pungency levels. Some varieties are famous for the red color because of the pigment and other quality parameters in chilly are length, width and skin thickness. The world production of chilly crop to around 7 million tones, which is cultivated on 1.5 million hectares of land. India is the world leader in chilly production. Among Indian states, Andhra Pradesh is one of highest chilly producing state. Andhra Pradesh is having highest area, output and productivity of chilly. So there is a lot of scope to increase the chilly area. Hence our parents as well as other neighbors, relatives™ main occupation are chilly cultivation

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/06/2020

(21) Application No.202041027264 A

(43) Publication Date : 10/07/2020

(54) Title of the invention : NOISE REMOVAL SYSTEM IN THORACIC ELECTRICAL BIOIMPEDANCE SIGNALS USING NORMALIZED CLIPPED LOGARITHMIC ADAPTIVE ARTIFACT CANCELLER

(51) International classification	:A61B 5/053
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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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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2)K RAJU

3)MD ZIA UR RAHMAN

4)GOWRI THUMBUR

5)M KIRAN KUMAR

6)K MURALI KRISHNA

(57) Abstract :

)ISE REMOVAL SYSTEM IN THORACIC ELECTRICAL BIOIMPEDANCE SIGNALS USING NORMALIZED CLIPPED LOGARITHMIC ADAPTIVE ARTIFACT CANCELLER• Exemplary embodiments of the present disclosure are directed towards a noise removal system in thoracic electrical bioimpedance signals with a clipped logarithmic adaptive artifact canceller for the removal of artifacts from TEB (Thoracic Bio-impedance) signals; a data acquisition unit to acquire TEB (Thoracic Bio-impedance) where the actual Thoracic Bio-impedance signal component and n1(n) is a noise component; a discrete wavelet transform (DWT) based decomposition unit to obtain a feed of signals from an input signal, where the DWT decomposition is able to generate the reference signal from the contaminated Thoracic Bio-impedance (TEB) signal D(n); and NCLMLS-AAC to be used for the extraction of noise components to update the weight coefficients of the filter. FIG 1-2

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/05/2020

(21) Application No.202041022294 A

(43) Publication Date : 12/06/2020

(54) Title of the invention : AN APPROACH FOR HIGH SPEED AND SECURE BACK PROPAGATION LEARNING USING UPRIGHT PARTITIONED DATA WITH IOT

(51) International classification	:G06Q0010100000, G06F0021620000, G06N0003080000, H04L0009080000, H04L0009320000
(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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4)Mrs. VEENA T. Assistant Professor
5)Ms. Julia Faith S Designation: Assistant Professor
6)Mr. J. Sathiya Jeba Sundar Assistant Professor/CSE
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8)Mr.K.Sudharson
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3)Dr S Padmapriya

(57) Abstract :
Learning accuracy is improved by practicing multiple partiesâ€™ collaboration that conducts back propagation jointly with neural network that combines the data sets from both. None of the party discloses the private data during this process to other parties. This type of collaborative learning is supported by the existing schemes that are limited in the partition of data or by considering only two parties. Collaborative learning conduction is done by the partitioned data set allowing two or more parties lacking the solution. This invention solves the problem by using the cloud computing power. Private data of each party is encrypted locally and uploaded in the cloud with its cipher texts. Operations involved in the learning algorithm are executed by the cloud over the cipher texts without the knowledge of original data of a private party. Expensive operations are offloaded securely to the cloud for minimizing the communication and computation cost. Flexible operations are supported over cipher texts by the encryption algorithm.

No. of Pages : 12 No. of Claims : 6