

(54) Title of the invention : FRAUD DETECTION IN E-COMMERCE FINANCIAL TRANSACTION USING BEHAVIOUR DIVERSITY AND PROBABILITY DENSIT

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| <p>(51) International classification :G06Q0020400000, G06N0020000000, H01M0004130000, A61K0039040000, G06F0016245800</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 : 1) HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1) Dr. JAYA Address of Applicant : PROFESSOR/ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 2)Dr. P. VIJAYALAKSHMI Address of Applicant :PROFESSOR & HEAD-ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 3)Dr. L. RAMASETHU Address of Applicant :ASSOCIATE PROFESSOR/ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 4)Dr. S. CHINNAPPARAJ Address of Applicant :ASSOCIATE PROFESSOR/ECE, HINDUSTHAN INSTITUTE OF TECHNOLOGY, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 5)AJITH C Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 6)DELIN G J Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 7)GANESH VARMA G Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> |
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(57) Abstract :

Online shopping, already on a steady rise, was propelled even further with the advent of the COVID-19 pandemic. Of course, credit cards are a dominant way of doing business online. The credit card fraud detection problem has become relevant more than ever as the losses due to fraud accumulate. Most research on this topic takes an isolated, focused view of the problem, typically concentrating on tuning the data mining models. We noticed a significant gap between the academic research findings and the rightfully conservative businesses, which are careful when adopting new, especially black-box, models. In this paper, we took a broader perspective and considered this problem from both the academic and the business angle: we detected challenges in the fraud detection problem such as feature engineering and unbalanced datasets and distinguished between more and less lucrative areas to invest in when upgrading fraud detection systems. Our findings are based on the real-world data of CNP (card not present) fraud transactions, which are a dominant type of fraud transactions. Data were provided by our industrial partner, an international card-processing company. We tested different data mining models and approaches to the outlined challenges and compared them to their existing production systems to trace a cost-effective fraud detection system upgrade path.

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(54) Title of the invention : IMAGE BASE WILD PLANT DETECTION AND SPRINKLING OF GROWTH BY SMART ROBOT

(51) International classification :G06K0009000000, H04N0019330000, C12N0015820000, B25J0009160000, C12N0015113000

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(57) Abstract :
 ANNEXURE 3 Agriculture is a field which requires automation in its various applications. New advanced technology is used in the agriculture operation due to labor shortage increase in labor cost etc. Agriculture operation needs automation, among this one is weed control. Color based segmentation procedure is carried out in the MATLAB section. Image segmentation procedure is used for detecting the plants are suffering from protein deficiency. So we process the images for segmenting the weed in crop field. The main purpose of our project is to design an algorithm for automatic weed detection using Image Processing along the agricultural field. The water gets contaminated and causes water pollution. To avoid such an unwanted effect a machine vision system has been developed consisting of a Camera to acquire an image of a part of the field.

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

(54) Title of the invention : IOT BASED SMART PRECISION AGRICULTURE

(51) International classification :H04L0029080000, G06N0020000000, A01B0079000000, G06Q0050020000, G01N0033240000

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(57) Abstract :

Annexure 3 The approach to this idea involves the perfect solution to the issues and problems that other IOT based agricultural systems don't have. We included different features of identifying and fixing problems like plant diseases, dry plants and other problems such as growth of plants during cloudy days and during night time. Due to the increasing number of plant diseases, insects attack such as locusts at any time, it is necessary to identify the problems at any given time and solve it automatically. This IOT based agriculture system does not miss the opportunity to identify plant diseases, dry plants and other problems etc., They also don't take lot of space and they are available at a low cost. This IOT based agriculture system uses MATLAB to specify the plant diseases or to identify insect attacks such as locusts. Additional uses like Fertilizers and insect pesticides are sprayed. Our IOT based agriculture system can cover big areas very fast, lowering expenditures and no need of staffs or working people. The biggest advantage of this project is the capability of automatic pesticides spraying without any supervision and operation of this agriculture system through IOT.

(54) Title of the invention : INTELLIGENT PUBLIC TRANSPORT SYSTEM USING GPS AND ADVANCED IOT TECHNOLOGY

(51) International classification :H04L0029080000, G08G0001133000, G06Q0050300000, G06Q0020320000, G01S0019140000

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(54) Title of the invention : DESIGN AND CONSTRUCTION OF AUTOMATED SMART MONITORING SYSTEM OF A TRANSFORMER USING IOT

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| <p>(51) International classification :H04L0029080000, G01R0031620000, H01F0041020000, G08B0021040000, G06F0017140000</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 : 1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMILNADU, INDIA - 641032 -- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. J. JAYA Address of Applicant :PROFESSOR/ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY,COIMBATORE, TAMILNADU, INDIA - 641032 -----</p> <p>2)Dr.P.Vijayalakshmi Address of Applicant :Professor & Head - ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>---</p> <p>3)Mrs.T.Nivethitha Address of Applicant :Assistant Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>---</p> <p>4)Ms.S.Brindha Address of Applicant :Assistant Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>---</p> <p>5)Boopathi Raja M Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)Gokula Krishnan N Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)Hajmadhulla U Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> |
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(57) Abstract :
ANNEXURE III The Internet Of Things (IOT); to allow the possibility for exchanging the data. This work presents design and execution of real time monitoring and fault detection of transformer and record key operation indicators of a dispersion transformer oil and encompassing temperatures and current, voltage and vibration are data upload in cloud They have to look at it continuously by using this project it can minimize working efforts and improve accuracy, stability,efficiency in this project, sensors are used to sense the main parameters of equipment . such as voltage, current(over voltage, under voltage, over current) LCD display this sensed data is sent to microcontroller and this controller and this controller checks parameter limits which further send to the IOT web server Adafruit software using Wi-Fi module of these data makes sure the right information is in hand to the operator and operator can make useful decisions before any catastrophic failure on basis of that data of parameters.

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(54) Title of the invention : COVID-19 DETECTION & SYMPTOMS CHECKER USING DEEP LEARNING

(51) International classification :G06K0009620000, G06N0020000000, G16H0050700000, G06N0003040000, G16H0010600000

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(57) Abstract :

According to the world health organization, the coronavirus epidemic threatens the world's health system every day. Health resources in most countries are either insufficient or not fairly shared. There are various problems such as the number of health personnel, the number of beds, or the number of intensive care units. Using limited resources at the optimum level is the key to the country's health system to overcome this epidemic. Disease detection is an important factor in preventing the epidemic. The higher the success, the more controlled the spread of the virus. Whether the person has a virus or not is usually done by the PCR test. In addition to the PCR method, chest x-ray images can be classified with deep learning methods. Deep learning methods have become popular in academic studies by processing multi-layered images in one go and by defining manually entered parameters in machine learning. This popularity reflected positively on limited health datasets. In this study, it was aimed to detect the disease of people whose x-rays were taken for suspected COVID-19. In such COVID-19 studies, a binary classification has generally been made. The data set includes chest x-rays of patients with COVID-19, viral pneumonia, and healthy patients. Before the classification process, the data augmentation method was applied to the data set. These three groups have been classified through multi-class classification deep learning models.

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

(54) Title of the invention : AN OFF-GRID ENERGY HARVESTING TECHNIQUE FOR HUMAN MENTAL HEALTH THERAPEUTIC TREATMENT PURPOSE

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| <p>(51) International classification :A61N0005060000, H02N0002180000, H01L0041113000, E21B0043340000, F04B0033000000</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)Hindusthan College of Engineering and Technology Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.J.Jaya Address of Applicant :Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>2)Dr.P.Vijayalakshmi Address of Applicant :Professor & Head-ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>3)Dr.J.Ramya Address of Applicant :Associate Professor/ ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>4)Ms.S.Ramya, Address of Applicant :AP/ECE, Hindusthan Institute of Technology, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>-----</p> <p>5)Alagusundaram S Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)Amreen R Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)Gowsik P Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>8)Immaculate Pavithra R Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> |
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(57) Abstract :

ANNEXURE 3 The greater demand for electricity has been putting pressure on its availability and cost. Thus we are hereby presented with a proposal for the utilization of waste energy from foot power with human locomotion. The false flooring has been engineered with piezoelectric technology. This idea is all about generating electricity when people walk on the floor. The power is to be stored and hence used for various applications. But we here are mainly focused on providing electricity for health care purposes, i.e. for light therapy. Since it is a slow recovery process, we here utilize the energy stored by the piezoelectric effect to produce electricity. Thus it paves a simple way to generate electricity. Our idea provides various beneficial effects for light therapy. It is a way to treat various psychological problems and certain other conditions by exposure to artificial light. Thus, we came up with the idea to utilize piezoelectric power for the costlier light therapy treatment.

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(54) Title of the invention : ACCIDENT IDENTIFICATION & ALERTING SYSTEM

(51) International classification :G06K0009000000, G10L0013000000, G10L0013080000, G06K0009340000, G06K0009320000

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Filing Date :NA

(87) International Publication No : NA

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Filing Date :NA

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(57) Abstract :

ANNEXURE 3 Visual impairment is one of the biggest limitations for humanity, especially in this day and age when information is communicated a lot by text messages (electronic and paper-based) rather than voice. The system we have proposed aims to help people with visual impairment. In this project, we developed a device that converts an image's text to text and speech. The basic framework is an image processing that has a collection of data set, extracts only the region of interest (i.e. region of the image that contains text), and converts that text to speech. This proposed system is implemented using the image processing method. The image from the collected data set undergoes a series of image pre-processing steps to locate only that part of the image that contains the text and removes the background. Two tools are used to convert the new image (which contains only the text) to speech. They are OCR (Optical Character Recognition) software and TTS (Text-to-Speech) engines. The audio output is heard through the computer's audio jack using speakers or earphones.

No. of Pages : 5 No. of Claims : 4

(54) Title of the invention : MULTI FUNCTIONED BATTERY HEALTH MONITORING SYSTEM USING IOT

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(57) Abstract :
 ANNEXURE 3 For safe and reliable operation of batteries on electric vehicles, the online monitoring and states estimation of the batteries is necessary. To make it convenient for every vehicle owner to monitor the battery status of their vehicles anytime and anywhere. Renewable energy sources (RES) can be regarded as the key input for development because of its' unique properties such as cleanliness, noiselessness, ecofriendly nature, etc. Due to the intermittent nature of renewable energy especially solar photovoltaic storage technology such as batteries need to be deployed/The Continuous Battery Monitoring System will monitor the battery's parameters continuously. In this project, real-time monitoring the batteries based on Internet of things. Here we are using both renewable and non renewable energy for battery based upon availability. Our proposed system monitors the various parameters and

(54) Title of the invention : DEVELOPMENT OF A FACIAL FEATURE MONITORING FOR REAL TIME DROWSINESS PREDICTION AND ACCIDENT PREVENTION SYSTEM

(51) International classification :G06K0009000000, G08B0021060000, A61B0005180000, H04N0007180000, G06F0009451000

(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
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(54) Title of the invention : SMART URBAN TRAFFIC CONTROL AND MANAGEMENT USING IOT

(51) International classification :H04L0029080000, G08G0001010000, G06Q0010060000, G08G0001081000, H04L0012825000

(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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(62) Divisional to Application Number :NA
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(57) Abstract :
 ANNEXURE 3 Traffic congestion is biggest problem in many major cities and high traffic places across the world and it has become a nightmare for the commuters in these cities.The current system has fixed time given to each side of junction which cannot be varied as per varying traffic density. Junction timings allotted are fixed. When higher traffic density at which side then that side has longer green signal is allotted. The IR sensors are placed at the every 5 meters of road side which can sense the object From present situation, an efficient solution to the quandary is not yet obtained. Hence in order to provide efficacious solution this archetype is designed.In this proposed methodology we will provide solution to congestion, traffic clearance to ambulance and other emergency conveyances and tracking.

(54) Title of the invention : ENLARGEMENT OF VEHICLE BLACK BOX EMBED MISHAP OBSERVING TECHNIQUE

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| <p>(51) International classification :B60Q0001500000, G08G0001096700, B64D0047020000, G08B0025010000, G08G0001096200</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)Hindusthan College of Engineering and Technology Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.J.Jaya Address of Applicant :Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>2)Dr.P.Vijayalakshmi Address of Applicant :Professor & Head-ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>3)Dr.A.Suresh babu Address of Applicant :Associate Professor/ ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>4)Mr.T.Anandaselvakarthish Address of Applicant :Assistant Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>5)Dr.V.Suresh babu Address of Applicant :Associate Professor/ ECE, Hindusthan Institute of Technology, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)Abdul Hathil J Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)Karan V Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>8)Karthick A Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> |
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(57) Abstract :

ANNEXURE 3 Traffic in our country is increasing day by day. Many people are not giving a good response for the traffic rules in many places. Mainly accidents happen due to over speed and careless driving. Especially, in the school and the college zone, people are hesitating for decreasing the speed to its limit This is embedded project to indicate the over speed and to control the vehicle in the over speed condition. This is constructed with the wireless communication. We are using PIC16F877A which is Programmable IC microcontroller. To check the tyre temperature, we have interfaced temperature sensor indicate the occurrence of high temperature and alert the vehicle driver via alarm. The accident information system will alert vehicle owner relative or nearby hospital through IT with the accident location using GPS. If the accident is a minor one then driver can press the reset switch and drive normally. Accelerator, brake clutch and steering position sensor indicate the position of accelerator, brake clutch steering respectively. We can monitor and control all-with the help of IoT module.

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

(54) Title of the invention : STRUCTURAL HEALTH MONITORING SYSTEM WITH NARROWBAND USING IOT

(51) International classification :A61B0005000000, A61B0005020500, A61B0005024000, A61B0005080000, A61B0005010000

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

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 This technology; smart electronic bias (electronic device with microcontrollers) that can be worn on the body as implant or accessories, system can be a feasible result for covering the top vital signs of a person during diurnal conditioning for a variety of operations in the medical, sport, and heartiness fields. In the literature, some e systems are equipped with detectors and suitable electronics bias are used to condition and store the vital signals have been reported. The main advantages are drop in the health costs and staying time and overcrowding in different medical structures. This increases the independence of the people perfecting the quality of life.

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

(54) Title of the invention : BRAIN TUMOR SEGMENTATION AND STAGE CLASSIFICATION USING SVM CLASSIFIER

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| <p>(51) International classification :A61B0005000000, G06K0009620000, A61K0049180000, C12Q0001688600, G06T0007000000</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 : 1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :VALLEY CAMPUS, POLLACHI HIGHWAY,COIMBATORE, TAMILNADU, INDIA - 641032 --- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. J. JAYA Address of Applicant :PROFESSOR-ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY,COIMBATORE, TAMILNADU, INDIA - 641032 -----</p> <p>2)Dr.P.Vijayalakshmi Address of Applicant :Professor & Head - ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>---</p> <p>3)Dr.P.K.Poonguzhali Address of Applicant :Associate Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>---</p> <p>4)Ms.S.Brindha Address of Applicant :Assistant Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>---</p> <p>5)Dhana Lakshmi K Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)Gayathri Jothi P Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)Haripriya R Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>8)Akalya M Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> |
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(57) Abstract :
Annexure 3 Introducing magnetic resonance imaging is useful for post processing of the extracted region of interest like the tumor segmentation and imaging is a standard modality used in medicine for brain diagnosis and treatment. To provide an accurate detection of tumors in the MRI slices becomes a fastidious task to perform due to the increasing of medical data flow. Using SVM classifier tumor detection in an image is useful not only for medical experts, but also for other purposes like segmentation and 3D reconstruction. The manual delineation and visual inspection will be limited in order to avoid time consumption by medical doctors. The brain tumor tissue detection allows localizing a mass of abnormal cells in a slice of Magnetic Resonance (MR).

(54) Title of the invention : LI-FI BASED VEHICLE TO COMMUNICATE WITH PEDESTRIANS OR OTHER VEHICLES

(51) International classification :H04B0010116000, H04W0004480000, G07C0005000000, B60Q0001500000, H04L0029060000

(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 :
 Traffic accident between pedestrians and vehicles is one of the most serious issues world-wide. One of the major challenges that autonomous cars are facing today is driving in urban environments. To make it a reality, autonomous vehicles require the ability to communicate with other road users and understand their intentions. In our project the basic idea is for the vehicles to communicate with pedestrians or with other vehicles. Wireless communication has become a basic utility in our day-to-day life such that it has become a fundamental in our life and this communication uses the radio spectrum for data transfer. There are issues in using the radio spectrum and they are capacity, efficiency, availability and -security. The usage of Wi-Fi also causes damage to the ecosystem such as flora and fauna. The defects of the Wi-Fi technology have given birth to the concept of Li-Fi (Light Fidelity) technology. Li-Fi is an advanced technology. This project is concise to vehicle-to-vehicle communication for avoiding road accidents. We also use the ultrasonic sensor, Alcohol sensor, Heartbeat sensor, LCD display, Li-Fi transmitter and receiver. In case of an unfortunate condition in the vehicle that is going forward, the vehicle behind it will be intimated and will stop on the very moment.

No. of Pages : 5 No. of Claims : 4

(54) Title of the invention : A SYSTEM FOR BORDER IDENTIFICATION AND AIR VELOCITY DETECTION TOWARDS FISHERMEN SAFETY

(51) International classification :B60W0010020000, G01P0005260000, F03D0007060000, F03D0009320000, F24H0009200000

(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 :
 Annexure 3 A system for Border Identification and air velocity detection towards Fishermen safety Fishing is one of the primary sources of food and money for all coastal areas, regardless of their geographical position on the Earth. Water is so vital to a country's economy, that nations sharing the seas engage in territorial disputes. As a result, the fishing communities along the coasts of these countries have been severely harmed. Crossing maritime limits and recognizing places has become a challenging task for fishermen. Several Tamil fishermen are seized and imprisoned by Sri Lankan naval forces for crossing our border with unknowingly. The

(54) Title of the invention : A SMART CHAIR WITH POSTURE RECOGNITION AND TEMPERATURE MONITORING SYSTEM

(51) International classification :G06K0009000000, G06K0009620000, A61B0005010000, G06F0003034600, A61B0005110000

(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 :
 Annexure 3 Modern humans spend the majority of their time sitting. Some sitting positions can cause health problems. A local sitting position detection system with low power consumption and computing overhead is desired to reduce the harm caused by improper sitting postures. In addition, the system should give a positive user experience that is accurate and private. This study describes a revolutionary office chair posture identification system that can classify seven different health-related sitting postures. We presented a model smart sitting chair to alleviate health issues and stress in people who spend most of their time sitting. This project provides a solution to human back pain tension.

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(19) INDIA

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(43) Publication Date : 06/05/2022

(54) Title of the invention : INSOLATION GARNER USING IOT

(51) International classification :H04L0029080000, B60H0001000000, F02C0001050000, G06Q0020400000, G06Q0020360000

(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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(54) Title of the invention : OIL SPILL DETECTION IN IMAGE OF SATELLITE

(51) International classification :E02B0015040000, H04B0007185000, C02F0101320000, G06T0007000000, C02F0001680000

(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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(54) Title of the invention : HAZE AND NOISE REMOVAL ALGORITHM FOR REMOTE SATELLITE SENSING IMAGES

(51) International classification :G06T0005000000, G06F0003041000, B41J0002210000, H03H0001000000, G06T0005500000

(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 :
 Annexure 3 The remote sensing imaging detection technology is important to effectively monitor and manage environment and resources, and remote sensing images are important data source on smart city and digital city. The existence of the haze has serious impact of the quality of optical remote sensing image acquisition, resulting on remote sensing image blurred, detail information loss, contrast decreased colour distortion. To reduce the impact of haze and give full play to the value of remote sensing images, a new urban remote sensing haze removal algorithm is proposed in this project, which combines the image phase consistency feature, first the image haze is removed by using multi scale theory and histogram characteristic, and then the detail information of the image is enhanced by using the phase consistency features, finally they are fused with the multi-scale wavelet transform. It achieves the

(54) Title of the invention : CARDIOVASCULAR DISEASES IDENTIFICATION USING ADVANCED MACHINE LEARNING ALGORITHM

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|---|---|
| <p>(51) International classification :G01R0033480000, A61B0005055000, A61B0005000000, A61B0006030000, G01R0033561000</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)Hindusthan College of Engineering and Technology Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.J.Jaya Address of Applicant :Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>2)Dr.P.Vijayalakshmi Address of Applicant :Professor & Head-ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>3)Dr.A.Suresh babu Address of Applicant :Associate Professor/ ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>4)Mr.T.Anandaselvakarthish Address of Applicant :Assistant Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>5)Dr.V.Suresh babu Address of Applicant :Associate Professor/ ECE, Hindusthan Institute of Technology, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)Livingstone Arthiur Raj M Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)Mukesh M Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>8)Nandha Kumar M Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> |
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(57) Abstract :

Annexure 3 The approach to this idea involves in identifying cardiovascular disease using Support Vector Machine learning algorithm (SVM). For example PETCT and PET-MRI combine detailed anatomical information determined with CT or MRI with tracer dependent functional parameters quantified by PET, such as the metabolism of glucose. Diagnostic findings in fast biological processes, such as pathological myocardial movement, valvular heart diseases or stenosis require fast acquisition schemes found in e.g. ultrasound .Recently, accelerated MR-based imaging sequences have been presented allowing for free breathing cine MRI data acquisition. Whilst the reconstructed temporal resolution is superb, the overall scan time is in this work is licensed under a Creative Commons Attribution 4.0 License.

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

(54) Title of the invention : AN INTELLIGENT ROBOTIC WHEELCHAIR FOR PHYSICALLY CHALLENGED PEOPLE

(51) International classification :A61G0005100000, A61G0007100000, A61G0005120000, A61G0005000000, A61G0005040000

(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 :
 The major challenge faced by the physically disabled people is that they have to depend on the caretakers for their movement. The wheelchair system is recommended for controlling a wheelchair using an Android application on a mobile device, allowing crippled or handicapped people, as well as older citizens who are unable to move well, to get around more easily. As a result of this design, exceptional people will be able to live a life that is less reliant on others. Android technology is a key that may provide a new approach to human interaction with machines or tools person when comes to self-propulsion. The robotic wheelchair comprises the features like sensing hindrances and circuitry to avoid colliding with an obstacle. The wheelchair becomes smarter by using embedded systems solutions on self-propelled wheelchairs. Obstacle sensing, fracture detection, and living person identification functions have been integrated to ensure the safety of movement. In addition, a regulated LCD has been supplied for persons who are auditorily disabled. Access to control home appliances has also been offered in this proposed system. This system has one more feature of remotely controlling some electrical devices such as turning ON/OFF lights and also communicating with the caretaker.

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

(54) Title of the invention : AUTOMATIC STRAWBERRIES FRUITS QUALITY INSPECTION SYSTEM

(51) International classification :G06T0007000000, G06K0009200000, G06K0009000000, G06K0009620000, G01N0033020000

(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 :

ANNEXURE 3 Agriculture is very important in human life. Image processing is effective tool for analysis in various fields and applications in agriculture. The agricultural industry is probably too oldest and most widespread industry in the world. In Indian agriculture industry many kind of activities are done like quality inspection, sorting, assembly, painting, packaging. Nondestructive quality evaluation of strawberries fruits is important and very vital for the food and agricultural industry. The strawberries fruits in the market should satisfy the consumer preferences, strawberries fruits must be graded for quality aspects like size, volume and hydration contents. We have proposed a framework for automatic strawberries fruits quality inspection from the input images. To achieve good result, we have used GLCM and LBP.GLCM is used to extract the features value from grayscale image. Then LBP is used to classify the texture information.

No. of Pages : 5 No. of Claims : 4

(54) Title of the invention : ANDROID CONTROL WILD LIFE OBSERVATION ROBOT

(51) International classification :G06T0007254000, A61N0001370000, G09F0009300000, G08B0013190000, G08B0013196000

(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 :
 Annexure 3 This work's key contribution is to clarify the impact of energy reduction for each strategy. The motion sensor sensitivity adjustment is standard for trail cameras. In image processing, frame difference algorithms are commonly employed to detect some motion in images. To the best of our knowledge, none of the literature describes the influence on the energy consumption of wild animal detecting systems, despite the fact that they are generic. Other detecting systems that use motion sensors, DL, or Wi-Fi can use the presented approaches as well.

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

(54) Title of the invention : ADVANCED DIAGNOSIS OF COVID-19 SYMPTOMS AND DRUG PRESCRIPTION USING DEEP OPTIMIZATION

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|---|--|
| <p>(51) International classification :G06T0007000000, G06K0009620000, A61B0006000000, A61B0006030000, G06Q0010100000</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)Hindusthan College of Engineering and Technology Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.J.Jaya Address of Applicant :Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>2)Dr.P.Vijayalakshmi Address of Applicant :Professor & Head-ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>---</p> <p>3)Dr.L.Ramasethu Address of Applicant :Associate Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>---</p> <p>4)Dr.S.Chinnapparaj Address of Applicant :Associate Professor/ ECE, Hindusthan Institute of Technology, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>5)Manojkumar S Address of Applicant :Associate Professor/ ECE, Hindusthan Institute of Technology, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>6)Mohamed Musaraf M Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> <p>7)Nanda Kumar C Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> |
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(57) Abstract :

Annexure 3 Timely and precise identification of COVID-19 is an arduous task owing to the scarcity and inefficiency of the medical test kits. This has resulted in medical professionals turning towards Computed Tomography (CT) scans.Efforts are being made to design deeplearning models capable of COVID-19 detection using CTscans.This has certainly reduced the manual intervention in disease detection but reported accuracy is limited. Methods: The present work proposes an automatic system for COVID-19 diagnosis based on deep features and Parameter Free BAT (PF-BAT) optimized Fuzzy K-nearest neighbor (PF-FKNN) classifier.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241025812 A

(19) INDIA

(22) Date of filing of Application :04/05/2022

(43) Publication Date : 20/05/2022

(54) Title of the invention : WEB APPLICATION USING MVC

(51) International classification :G06F0008380000, G06F0016951000, G06Q0010100000, G06F0008360000, G06F0008200000

(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 :

Annexure3 With the rapid development of Internet technology, more and more ministries, companies, and research institutes tend to disseminate information over the Internet. But developers find the problem of importance and practical significance. This is impossible to avoid when they establish a platform for disseminating information for these departments, companies and institutions. User interface logic often changes more often than business logic and it is difficult to separate user interface logic from business logic due to tight coupling, especially in web applications. The solution uses Model-View-Controller (MVC) architecture, which increases code reusability and applicability. Here, we use the ASP .Net and PHP frameworks to implement the MVC architecture. These two frames have both advantages and disadvantages. Test fully compare and evaluate the advantages and disadvantages of the two frameworks.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241037265 A

(19) INDIA

(22) Date of filing of Application :29/06/2022

(43) Publication Date : 08/07/2022

(54) Title of the invention : LUNG PATTERN CLASSIFICATION FOR INTERSTITIAL LUNG DISEASE USING DEEP CONVOLUTION NEURAL NETWORK

(51) International classification :G06T0007000000, G06K0009620000, G16H0030400000, G06T0007130000, G16H0050200000

(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 :
 Methods were identifying the Lung-Cancer in its advanced periods, therefore the survival rate are quite low. Consequently, a brand new machinery, tool was quite necessary to diagnose the Lung-Cancer in its initial periods. The image processing mechanisms were frequently utilized for prediction of Lung-Cancer and also for premature detection to avoid the Lung-Cancer Image processing mechanisms include several stages like image Pre-processing, noise elimination, enhancement, and segmentation, etc . Currently, there's numerous computers aided diagnosis 'CAD5 system proposed by the researcher for this purpose, but still a large area of research. To forecast the Lung-Cancer several features must be extracted from the image so these features classify by classifier to point the Processing Mechanisms for detection and prediction of Lung-Cancer, review several proposed systems that are created by researchers to predict and detect both normal and abnormal tumor in human's Lung, and compare among the image processing mechanisms and various classifiers that were used for classifying normality or ab-normality of lung tumors in terms of accuracy.

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

(54) Title of the invention : QUANTITATIVE DETECTION AND PREDICTION OF ASPHYXIATING GAS MONITORING IN THE ENVIRONMENT

(51) International classification :H04L0029080000, A61B0005160000, G01N0033000000, G01N0021350400, B60R0001000000

(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 :
 Annexure3 Accidents caused by broken or missing drainage covers are becoming more common these days. In poor countries, manholes are not properly monitored. Monitoring the drainage system is critical to keeping the cityclean and healthy. Because human monitoring is ineffective, drainage problems are handled slowly and take longer to resolve. As a result, we offer a system to address this issue. We've included a slew of sensors to keep track of the manhole cover in real time, preventing similar mishaps. This system monitors air temperature, poisonous gas emission, drain overflow, and manhole lid position, among other things, and sends information to an authorised user via IOT.

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

(54) Title of the invention : ENHANCED ANOMALY DETECTION IN VIDEOS WITH LSTM

(51) International classification :G06N0003040000, H04L0029060000, G06K0009000000, G06F0011070000, G06N0003080000

(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 :

Annexure-3 I propose a neural network architecture for detecting abnormal activities in videos using Convolutional Long Short-Term Memory Network (LSTM) based Auto-encoders. Contemporary applications of Convolutional Neural Networks have demonstrated proficiency of Convolutional Layers for object detection, recognition and generation. This architecture can be used to solve the complexity involved with monitoring CCTV or any security footage of the same sort even with complex backgrounds in real time. Distinctly, we propose an architecture that is built upon the Auto-encoders for their ability to work minimal supervision which would reduce human efforts. This architecture is based on compressing and decompressing sequential data (Videos). A weighted Eculidean Loss is used to find the Reconstruction Error of raw data and thus, the Anamoly Behaviour. Reconstructing videos from distributions other than training data distribution produces elevated Re-constructional Errors. I used UCSD Pedestrian Data-set for training and testing the architecture. This architecture can encapsulate regularities in a myriad of datasets.

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

(54) Title of the invention : SPY ROBOT WITH SELF DESTRUCTION FUNCTION

(51) International classification :E06B0007300000, B25J0009160000, B25J0019000000, H04N0101000000, G06K0007000000

(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 :
 ANNEXURE 3 Among all the path finding algorithms mentioned above the paths that were found using artificial intelligence proved to better than a control architectures. The over all working of this project is concluded that we can use this robot circuit in three terrains. Like AIR, LAND, Water. Because the circuit has no change, the terrain vehicle needs to change based on the terrain which we want. With the help of this system, we can work the entire project with secret and safe why because in case any issues happened in this system we can diffuse all details like any blast or acid diffusion . so that all document destroyed that way we can prevent the details sharing with enemies.

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

(54) Title of the invention : ADAPTIVE SELF POWERED RENEWABLE ENERGY MANAGEMENT IN HOME SYSTEM

(51) International classification :H04L0012280000, H02J0003380000, G01R0031400000, G01B0011060000, H01F0027020000

(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 :
 ANNEXURE 3 Electricity plays a major role in everyone life. And it's the most demanded one to all, there are more ways to get electricity. We are using a grid type electricity to generate our home appliances, it consumes too cost for heavy operated electronics product like AC, Washing machines, heater etc. Instead of grid mechanism, get the electricity for home appliances from solar panel and wind mill, get the power from both provide to electronic appliances. This is the renewable mechanism to use the electricity, and here using sensor to detect the things in appliances and automatically perform the action without manual power.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241023254 A

(19) INDIA

(22) Date of filing of Application :20/04/2022

(43) Publication Date : 06/05/2022

(54) Title of the invention : BRAIN TUMOR DETECTING USING IMAGE PROCESSING

(51) International classification :G06T0005000000, A01N0057200000, G06K0009620000, G06F0009500000, G06T0007110000

(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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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241025817 A

(19) INDIA

(22) Date of filing of Application :04/05/2022

(43) Publication Date : 20/05/2022

(54) Title of the invention : AUDITORY ASSISTING SYSTEM FOR VISUALLY CHALLENGED PEOPLE

| | |
|---|---|
| <p>(51) International classification :H04W0004020000, G08B0025010000, G08B0025080000, H04W0004029000, G08G0001010000</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 : 1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. JAYA Address of Applicant :PROFESSOR/ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> <p>2)Dr. P. VIJAYALAKSHMI Address of Applicant :PROFESSOR & HEAD-ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> <p>3)Dr. D. BASKAR Address of Applicant :ASSOCIATE PROFESSOR/ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> <p>4)Mr. M. MOHANKUMAR Address of Applicant :ASSISTANT PROFESSOR/ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> <p>5)Dr. V. SURESH BABU Address of Applicant :ASSOCIATE PROFESSOR/ECE, HINDUSTHAN INSTITUTE OF TECHNOLOGY, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> <p>6)MEENATCHI SUNDARAM B Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> <p>7)NITHISH KUMAR K Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> <p>8)PRASANTH S Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----</p> |
|---|---|

(57) Abstract :

The approach to this idea involves the perfect solution to the issues and constraints that other surveillance technologies have. We include different feature of search and rescue operation like mapping, surveying and production. The Accident Detection and Alert System using Arduino is very sufficient and worthy to be implemented in the vehicle specially in developing country like Nepal, India, Bangladesh etc. Accident is increasing due to increase in number of vehicles as a result every year the number of death is increasing. The Accident Detection and Alert System using Arduino prevent the uncertain death after accident because this system send the message alert to the hospital or police station. The message alert include longitude, latitude (location of accident), in the form of google map link.

No. of Pages : 5 No. of Claims : 4

(54) Title of the invention : COGNITIVE RADIO BASED SPECTRUM SENSING USING SIGNAL SEGMENTATION ALGORITHM

(51) International classification :H04W0016140000, H04B0017382000, H04L0027000000, H04W0024080000, H04W0016100000

(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 :
 ANNEXURE 3 For a two decades, wireless spectrum resource shortage has been the bottleneck in the development of wireless communication systems. More than that, many measurement campaigns confirmed the fact that the frequency spectrum is inefficiently used. Cognitive radio is a promising technology for the efficient allocation and usage of the available spectrum. It identifies the available spectrum and reallocates them for efficient utilization of frequency bands. In this work, a novel spectrum sensing technique is proposed. The proposed method involves two levels of segmentation in time domain. In first level, running mean of the samples are considered and compared with the threshold. In second level, difference statistics is taken and the segmentation of signal is carried out. Further, frequency of the detected signal is computed, and the graph between the probability of detection and Signal to Noise Ratio (SNR) is plotted for input signals of various SNR. Two previous methods were considered for performance comparison, they are energy detection method, covariance based spectrum sensing method. The proposed method performs better than the above mentioned methods, especially in low SNR values.

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

(54) Title of the invention : DENSITY BASED TRAFFIC SIGNAL CONTROL USING ULTRASONIC AND BUMP SENSORS

(51) International classification :G08G0001160000, G06K0019077000, G06K0019073000, G08G0001042000, G08G0001010000

(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 :
 Annexure3 The prototype model can also be used for more than four roads with simple modification in code. This prototype is suitable for one lane or two lane roads. Further lanes will bear further MaxSonar detectors to detect traffic. We've to deploy one or further detectors for each road, these detectors always sense the traffic on that particular road. All these detectors are interfaced to the microcontroller. The RFID reader is a device that can be portable or permanently attached. It uses radio waves to transmit signals that activate the label. Once activated, the label in vehicles send a wave back to the antenna, where it's translated into data. The transponder is in the RFID label itself. Traffic signals at the crossroad generally have more than 10m distance between them and using RFID would be more accessible and practical.

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

(54) Title of the invention : IMPULSIVE NOISE ERROR DETECTION TECHNIQUE FOR MEDIAN FILTER

(51) International classification :G06T0005000000, G06T0005500000, G06T0005200000, G06F0009300000, G06K0009620000

(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 :

ANNEXURE 3 Different image filtering techniques can be used to remove noise, however, they are usually required to perform several mathematical operations on each image pixel to obtain the desired modified version of the input image. This results in a large number of operations per second, which makes field programmable gate arrays (FPGAs) an alternative to the classic implementation of image processing algorithms in microprocessors. In particular, SRAM-based FPGAs provide high performance, high densities, and low cost, while allowing a practically unlimited number of reconfigurations. Moreover, a reprogrammable logic offers the additional benefit of on-the-fly changes, so image processing applications can be evolved to meet more complex requirements.

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

(54) Title of the invention : FAKE JOB REMOVING SYSTEM

(51) International classification :G06K0009620000, G06N0003080000, G06N0003040000, G06F0021560000, G06F0016350000

(86) International Application No :NA
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(57) Abstract :

Annexure 3 In recent years, due to advancement in modern technology and socialcommunication, advertising new job posts has become very common issue in the present world. So, fake job posting prediction task is going to be a great concern for all. Like many other classification tasks, fake job posing prediction leaves a lot of challenges to face. This paper proposed to use different data mining techniques and classification algorithm like KNN, decision tree, support vector machine, naive bayes classifier, random forest classifier, multilayer perceptron and deep neural network to predict a job post on Employment Scam Aegean Dataset (EMSCAD) containing 18000 samples. Deep neural network as a classifier, performs great for this classification task. We have used three dense layers for this deep neural network classifier. The trained classifier shows fraudulent job post. Index Terms—false job prediction, deep learning, data mining.

No. of Pages : 5 No. of Claims : 4

(54) Title of the invention : SMART POULTRY FARM USING MICROCONTROLLER

(51) International classification :H04W0084180000, H04L0029080000, H04W0004700000, A23K0050750000, G01N0029020000

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(57) Abstract :
 Annexure I Most of the poultry farms are manually monitored and controlled. Temperature, humidity, air quality level, lighting, ventilation and food feeding are the important factors that are needed to be monitored and controlled. These factors are directly related to the poultry production. Currently, the mortality rate of broiler chicken in Brunei is higher than the normal rate. This research project is aim to produce healthy chickens and reduce the mortality rate of chicken to improve the productivity in Brunei by automating the process of monitoring and maintaining the temperature, humidity, air quality level and food feeder effectively using Internet of Things (IoT) and Wireless Sensor Networks (WSN). A prototype was created using IoT and WSN technologies and the above parameters were tested against threshold values. When these parameters exceeded the threshold values, corrective processes are initiated automatically that can help to reduce the mortality rate of chickens in the farm. This system also sends automatic alert notification to the user through SMS, Email and WhatsApp.A Web interface is also created to monitor and display these parameters. Keywords— Smart Poultry Farm, Wireless Sensor Network, Internet of Things, RESTful Web service, Temperature, Humidity, Air Quality, Arduino.

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(21) Application No.202241023253 A

(19) INDIA

(22) Date of filing of Application :20/04/2022

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(54) Title of the invention : ASTHMA & HEART RISK PREDICTION BASED ON MACHINE LEARNING USING IOT AND SMARTPHONE APPLICATIONS

(51) International classification :G06N0020000000, H04L0029080000, G06Q0010060000, G16H0050300000, G06N0003080000

(86) International Application No :NA
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(54) Title of the invention : OBJECT DETECTION SYSTEM FOR IMPROVING SAFETY AT UNMANNED RAILWAY CROSSING USING IMAGE PROCESSING

(51) International classification :A01M0029160000, A01M0029120000, B61L0023040000, B60Q0009000000, A01K0003000000

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

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
 The approach to this idea involves the perfect solution to the issues and constraints in the animal crossing zones. We include different features such as Image processing using machine learning and alert system. Due to increased accidents of wild animals while crossing railway tracks we aim to reduce the accidents. Our proposed idea involves detection of animal crossing and alerts the train engine driver in the surrounding region. It consists of an alert display, alarm buzzer and also led indication to detect the animals crossing the track. This can indicate the engine driver prior and alert him to slow down the train and save many animals lives as much as possible. The idea can be used as a real time set up to save the raising issues of animals getting accidentally killed in rail transit. The project aims to detect the presence of wild animals in the rail transit and save 1 them as soon as possible. A)

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

(54) Title of the invention : OFFTECH TOOL AND END URL FINDER

(51) International classification :G06F0016955000, E02F0003360000, A61B0010060000, B29B0009060000, A61B0017290000

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

(87) International Publication No : NA

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(62) Divisional to Application Number :NA
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(54) Title of the invention : STROKE DETECTION USING DEEP LEARNING

(51) International classification :G06K0009620000, G06N0003080000, G06K0009000000, G06N0003040000, G06K0009460000

(86) International Application No :NA
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(57) Abstract :
 ANNEXURE 3 A stroke occurs when a blood vessel that carries oxygen and nutrients to the brain is either blocked by a clot or bursts (or ruptures). Annually, 15 million people worldwide suffer a stroke. For the last few decades, machine learning is used to analyze medical dataset and use different algorithms for better predictions. Recently, deep learning technology is gaining success in many domain including Computer Vision, Image Recognition, Natural Language Processing and especially in medical field of Radiology. Since deep learning results are more accurate and can perform on large datasets we use deep learning in this project. This project attempts to diagnose brain stroke images using Convolution Neural Network and deep learning models. The proposed methodology is to classify whether the given image is a normal image of the brain or if contains the stroke image of the brain. Python programming is used in this project. Visualizations are also made in this project by using Matplotlib, Seaborn, Open cv which, is a real time computer vision and open source library.

(54) Title of the invention : AUTOMATIC ACCELERATION CONTROL IN TRAFFIC SIGNAL/SCHOOL ZONE

(51) International classification :F04D0027000000, B60W0030140000, B60K0031000000, B60W0030095000, G08G0001052000

(86) International Application No :NA
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(57) Abstract :
 A vehicle Speed Control System is designed to control the speed of the vehicle in specific zones to avoid accidents in low- speed areas. In this system, the low- speed zone is considered to be with an RF range, perpetration is grounded on the light vehicle speed control, when the vehicle is running at full speed and gets entered into the low- speed zone its speed will be automatically reduced to the allowed speed in the low- speed zone. The microcontroller will affiliate with the detectors to determine the speed of the vehicle and based on this input the controller will take applicable action and induce a control signal for the vehicle control system which also will spark the medium of the Speed control in the vehicle and the speed of the vehicle is reduced to the needed speed in that zone. The zone will be fixed using the RF range. RF receiver will be connected with every low-speed zone entrance. And each vehicle carries an RF transmitter with it. So when the vehicle enters the low- speed zone also it'll be predicted with the RF receiver and the information will shoot to the microcontroller Arduino Uno connected here. The speed of the vehicle will automatically be reduced with the help of a motor driver connected with the engine motor.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241024751 A

(19) INDIA

(22) Date of filing of Application :27/04/2022

(43) Publication Date : 13/05/2022

(54) Title of the invention : BREAST CANCER DETECTION USING MACHINE LEARNING

(51) International classification :G06N002000000, G01N0033574000, G06K0009620000, G06N0003080000, B25J0009000000

(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 :

Breast cancer (BC) is one of the most common cancers among women worldwide, representing the majority of new cancer cases and cancer-related deaths according to global statistics, making it a significant public health problem in today's society. The early diagnosis of Breast Cancer can improve the prognosis and chance of survival significantly, as it can promote timely clinical treatment to patients. Further accurate classification of benign tumours can prevent patients undergoing unnecessary treatments. In this project, proposed Modified CNN based feature extraction with transfer learning (ANN) method is used for classification. For segmentation expectation maximisation with gaussian kernel method is used.

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

(54) Title of the invention : IOT BASED SMART ASSISTANCE GLOVES FOR DISABLED PERSON

(51) International classification :A41D0019000000, H04L0029080000, G06Q0050100000, A61G0007100000, H01Q0003260000

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

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(57) Abstract :

In Today's world many people are suffering from paralysis and most of the paralytic patients are dependent on care takers. Paralysis is a condition in which there is impairment of one or more muscles in the body. In order to assist these patients, fingers of the hand play a major role in this proposed system. The patient is made to wear the sensor glove and recognition of finger bending is the mathematical interpretation of finger movement by the computing device. The system ensures the patient to express his requirements by converting the finger bending into auditory speech. If the same action is repeated thrice, indicating that the requirement is not yet fulfilled, the system will send a text message to the concerned care taker with the help of GSM module r wifi module (IOT). Home appliances are also controlled by the patient's finger wearing the sensor glove. In addition to this, the system continuously monitors the patient's heart beat and body temperature. If the body temperature and heart beat exceeds the normal value, the buzzer will be activated to show the abnormalities with respect to patient so that the care taker can attend the patient.

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

(54) Title of the invention : SOLAR POWER AUTOMATED AUTOMOTIVE FOR CHARGING STATION

(51) International classification :B60L0053300000, B60L0053140000, B60L0053650000, B60L0053660000, B60L0003000000

(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 :
 Our aim is to increase the electric charging station by solar and wind mill setup. In future increasing electric vehicles leads to these charging station busy. Wind mill and solar generates the power and that will be stored in battery which maintained in the power station. LCD display will display which parking slot available for the vehicle charging. Once our vehicle is connected to the charging point, voltage and current sensor will monitor the flow of current and voltage. In case any short circuit or heavy voltage emits from the base station, immediately sensor detects the parameter and cut off the electric unit. Every user uses the RFID tag for charging the vehicle, its like a debit card for charging the electric vehicle.Total units consumed and total amount will be displayed in the LCD.

No. of Pages : 4 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241022661 A

(19) INDIA

(22) Date of filing of Application :18/04/2022

(43) Publication Date : 06/05/2022

(54) Title of the invention : DEEP CONVOLUTION NEURAL NETWORK FOR AUTOMATED ROBUST ALPHANUMERIC CHARACTER RECOGNITION

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| <p>(51) International classification :G06N0003040000, G06N0003080000, G06K0009620000, G10L0015160000, G06K0009320000</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 : 1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMILNADU, INDIA - 641032 -- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. J. JAYA Address of Applicant :PROFESSOR/ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY,COIMBATORE, TAMILNADU, INDIA - 641032 ----- 2)Dr.P.Vijayalakshmi Address of Applicant :Professor & Head - ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. ----- --- 3)Ms.S.Ramya Address of Applicant :Associate Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. ----- --- 4)Dr.S.Kavitha Address of Applicant :Professor/ECE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. ----- 5)Suriya A K Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. ----- 6)Vasanthakumar S Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. ----- 7)Vengadesan K Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032. -----</p> |
|---|--|

(57) Abstract :

Annexure - 3 The goal is to investigate and develop a Deep Convolutional Neural Network (DCNN) for handwritten character recognition. Handwritten Character Recognition is the technique of recognising text in digital photos and documents and processing it for use in applications like machine translation and pattern recognition. This investigates the use of DCNN for more accurate detection and recognition of handwritten text images. The DCNN model is validated based on its performance on English handwritten characters. Using several layers, the model extracts features from photos. These are then used to train the model, allowing it to recognise characters.

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

(54) Title of the invention : COVID-19 PATIENT HEALTH RECORD USING BLOCK CHAIN AND IOT

(51) International classification :G16H0010600000, H04L0029080000, G16H0050200000, G06Q0020380000, G16H0050300000

(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 :
 Industry 4.0 has revolutionized the digital world applications covering ERP applications, financial services, healthcare sector, agriculture etc through the Blockchain technology. This technology has gained popularity in various fields as it prevents single point failure and trust among peers. Medical data is an asset for the appropriate treatment to be extended by the hospital authorities. These details serve as vital administrative and demographic information especially for patient-centered interoperability. However, in the real world, there are many challenges that arise from utilizing E-patient- records in a distributed environment due to data standards, security and privacy issues along with being impacted with the technology trends and governance. Block chain technology could transform the healthcare industry with new models with new models to manage and handle health care records in a secure manner, also ensuring regulatory compliance. In line with these findings, Block chain can be used for public health data surveillance, especially during infectious disease outbreaks such as COVID-19. During the pandemic situation, Block chain technology could serve as a tool for reporting active and recovered cases to help local and government authorities prepare medical facilities along with quick treatments thereby enabling reduced spread to the level of the epidemic. However, research findings reveal that medical practitioners and researchers when analyzing the data pertaining to COVID19 crisis basically face a common issue in handling data which is basically due to the lack of integration, authenticity of the data and its source of origin. While there are many reputable sources researchers can turn to like the figures from the Centre for Disease Control and the World Health Organization, and others, much of the data being communicated among hospitals and government agencies or public/private partnerships are inconsistent, or it cannot easily be shared. When these records were hosted in a distributed environment, then all the stakeholders could access the data from other locations. Patient Health Records are all on the cloud as a centralized data. The key aspects to be focused upon for Patient Health Records are as follows: 1.Patient data could be compromised if the access rights reach wrong hands 2. Control over the data is very reliant on the administrator of the system 3.If the administrator loses control over the data, and then the patient healthrecords could be altered/lost.

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

(54) Title of the invention : WHIP-SMART DECISION SUPPORT SYSTEM FOR WATER DOCKET IN GARDEN PLANTS

(51) International classification :G16H0050200000, C07D0405120000, G06Q0010060000, G06Q0050060000, G06T0011200000

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

In some countries, agriculture is taken into account united of the main supply of economic progress. The financial gain of the many countries depends directly on agricultural advancement. Moreover, the continual increase within the population of a rustic demands a lot of innovations in food production technology. The factors poignant agricultural progress should be studied totally to get most results, the many building block of agriculture is that the irrigation system. In different words, the potency of irrigation system could induce ample effects on agriculture. Irrigation method ought to offer water to soil systematically once it's required and stops water flow yet, once soil has soaked enough water, the surplus of water within the crops is of no smart, not solely water is wasted however it additionally destroys crops. The failures caused through manual ways of irrigation has allow us to believe some advance technique which might be relied upon, something that is price effective, labour saving and energy saving is taken into account economical, thence during this planned system, a way that uses terribly less or no labour (runs on its own) has been suggested, saves electricity and is simple to use The planned system is automatic irrigation system. The:automaticity Implies that it turns itself on and off relying upon the soil wetness-demand. Thisautomatic behaviour of irrigation is achieved exploitation totally different sensors that sense and tell the user if water is needed or npt and the way abundant water are enough for soil in order that water wastage is additionally, avoided. The errors which can arise once manual irrigation is employed also are corrected for the foremost half exploitation this technique.

No. of Pages : 5 No. of Claims : 4