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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/11/2021

(21) Application No.202141050901 A

(43) Publication Date : 03/12/2021

(54) Title of the invention : A MEDICAL IMAGE PROCESSING SYSTEM, IMAGE PROCESSING METHOD, AND MEDICAL IMAGE PROCESSING DEVICE

(51) International classification	:G06T0019200000, G16H0030200000, A63F0013980000, G06T0007000000, G06T0007730000
(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 :

[037] The present invention discloses a medical image processing system, image processing method, and medical image processing device. The system includes, but not limited to, a processing unit for a medical image capturing device, comprising a voice input means for receiving voice commands from a user; an image input means for receiving image data from the medical image capturing device; an image output means for outputting medical images to a display device. Further, the processing unit is configured for processing the image data to generate images of internal features of a body, the processing unit is provided zooming the images, the zooming includes means for defining, in response to a set of voice commands from a user, zoomed views of a plurality of non-overlapping subsets of a field of view of the medical image capturing device for a particular position and orientation of the medical image capturing device. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/11/2021

(21) Application No.202131050687 A

(43) Publication Date : 10/12/2021

(54) Title of the invention : A SYSTEM BASED ON DEEP LEARNING THREE-DIMENSIONAL PIPELINE RECONSTRUCTION AND METHOD THEREOF

(51) International classification :G06T0017000000, A61N0005060000, G01B0011160000, H04L0029080000, G06T0017200000

(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 system based on deep learning three-dimensional pipeline reconstruction and method thereof. The system includes, but not limited to, a processing unit configured for creating a sparse point model data of non-coding maker point cloud being represented a pipeline construction data derive from a graphical user interface, import in the point of density cloud acquisition user interface reference when aligning as local dense point cloud and an optical waveguide that emits electromagnetic radiation for creating a three-dimensional pipeline reconstruction with a scanning arrangement that rotates and translates to direct the electromagnetic radiation, a sensing network that partially encloses the optical waveguide and the scanning arrangement.

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

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/11/2021

(21) Application No.202141050202 A

(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IOT BASED SYSTEM FOR ALARM CLOCK HAVING TEMPERATURE MEASUREMENT FUNCTION AND METHOD THEREOF

(51) International classification	:H04L0029080000, G04G0013020000, H04L0009320000, G01D0021020000, A61B0005020000
(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 :

[035] The present invention discloses an IoT based system for alarm clock having temperature measurement function and method thereof. The system includes, but not limited to, one or more processing units connected with an alarm clock in an IoT network and a desktop alarm clock module; and the alarm clock is provided with a display screen is installed on the front elevation, and multiple sets of buttons are arranged on one side of the display screen. Further, the processing unit is configured the temperature sensors for sensing the temperature in the room which has a range 3.3 to 6 of input voltage and it uses 5V TTL (Transistor–transistor logic) over only one wire and further provides for measuring the humidity (0 to 100%) accuracy of 2-5%. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/10/2021

(21) Application No.202131049863 A

(43) Publication Date : 12/11/2021

(54) Title of the invention : AN IMAGE PROCESSING SYSTEM FOR TOUCH DISPLAY PRODUCT, STORAGE MEDIUM & ELECTRONIC DEVICE

(51) International classification :G06F0003041000, G06F0003048800, G06F0003048100, A63F0013520000, G06F0003044000

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

(87) International Publication No : NA

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

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

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(57) Abstract :
The present invention discloses an image processing system for touch display product, storage medium & electronic device and method thereof. The system includes, but not limited to, a touch sensitive device includes an interactive display, the touch sensitive device being configured to receive a first input comprising multiple concurrent touchscreen product selection; one or more processing units configured to: identify user interested attributes of individual ones of the multiple concurrent touchscreen product selection received at the touchscreen; and perform an operation on a computing system in response to the first input and interested attributes, the operation comprises toggling visibility of a touch pointer widget adjacent to or surrounding a cursor on an interactive display unit.

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/10/2021

(21) Application No.202141049308 A

(43) Publication Date : 05/11/2021

(54) Title of the invention : A SYSTEM FOR ENCODING AND DECODING DATA USING CLOUD COMPUTING AND METHOD THEREOF

(51) International classification :H04N0019176000, H04N0019440000, G06T0017200000, H04N0019700000, H04N0019170000

(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 Appli ation Number :NA
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(57) Abstract :
[034] The present invention discloses a system for Encoding and Decoding Data Using Cloud Computing and method thereof. The system includes, but not limited to, an encoding syntax data information provided on a cloud computing in a quantized space from a coded bitstream, wherein the syntax data information comprising dividing information and adaptive geometry quantization information for a bounding box of the point cloud; a decoder provided on a cloud computing in a quantized space from a coded bitstream, and dividing a bounding coded unit of the point cloud into a plurality of parts based on the dividing the data information; a processing unit configured to determine quantization parameters for the parts in a bounding coded unit based on the adaptive geometry quantization information; and reconstructing a plurality of points in each of the parts in the bounding coded unit of the point cloud based on the quantization parameter for the respective part in the bounding coded unit. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 10

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5|6-A|59

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/10/2021

(21) Application No.202141048690 A

(43) Publication Date : 05/11/2021

(54) Title of the invention : FALLING CAT INSPIRED INTELLIGENT QUADRUPEDAL ROBOT TO ASSIST PEOPLE DURING RISKY MOUNTAIN TREKKING

(51) International classification	:G06N0003040000, B25J0009160000, B62D0057032000, B66B0005280000, B62H0001100000
(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 :
A falling cat always goes from feet-up position to feet-down position, in a falling reference frame without violating the conversation of angular momentum. The first thing a cat does while falling is figuring out which way is up. This is capable using the gyro in the cats ears. Research shows that the safe landing of a falling cat is due to a phenomenon called cat riding reflex. Once a cat falls, it divides its body into two separate rotational axes that are tilted from one another. During falling the front part is released with decreased moment of inertia so that it can spin faster. At the back the moment of inertia is increased, so that a large twist in the front part is equivalent to the smaller twist in the latter. Cat extends its legs to increase the moment of inertia and extends its back legs along the rear axis, which allows fast twisting and finally extends all four legs while landing. Similar type of movement could be performed by a quadrupedal robot so that they can save people when they are about to fall down during risky mounting trekking. For the robot to mimic the falling cat mechanism it is to be trained for trajectory optimization. A neural network is trained to imitate the trajectory optimizer using supervised learning. The convolution neural network takes the orientation of robot as input and gives a stability based output to land the robot on its feet.

No. of Pages : 15 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/10/2021

(21) Application No.202141048454 A

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED WIRELESS COMMUNICATION SYSTEM, CONTROL DEVICE AND METHOD THEREOF

(51) International classification :H04W0076140000, H04W0092180000, H04W0088100000, H04W0008000000, G06N0020000000

(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 :
[034] The present invention discloses an Artificial Intelligence based wireless communication system, control device and method thereof. The system includes, but not limited to, a plurality of mobile communication units adapted to D2D communication that is direct inter-terminal communication, a plurality of base stations adapted to perform predetermined wireless communication using a specific frequency band; a plurality of user terminals located in a plurality of cells of the base station. Each of the base station permits the user terminal to perform the D2D communication using the specific frequency band which is further evaluated by the Artificial Intelligence and machine learning interfaces during a period in which the predetermined wireless communication is stopped. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/10/2021

(21) Application No.202141047024 A

(43) Publication Date : 05/11/2021

(54) Title of the invention : MACHINE LEARNING BASED INTELLIGENT SENSOR FRAMEWORK TO ASSIST FARMERS IN WEATHER FORECASTING FOR APPROPRIATE CROP CULTIVATION

(51) International classification :A01G0025160000, G01W0001100000, G06Q0050020000, G06N0007000000, G06N0020000000

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

(87) International Publication No : NA

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(57) Abstract :
Weather forecasting is an important factor in agricultural sector that aid farmers for sowing and reaping appropriate crops. The day-to-day weather forecast aid farmers to decide upon the type of irrigation, time of yield, choice of the crop to be cultivated that ultimately leads to profit/loss business decision in agriculture. For profitable and successful farming and harvesting the farmer has to be aware of several factors affecting the agriculture such as temperature, humidity, UV radiation, wind direction, solar radiation, barometric pressure and rainfall. Proposed is a machine learning based intelligent sensor framework to forecast weather for appropriate crop cultivation. A set of sensors that are deployed at a focused operating distance in the farm is capable to provide weather analytics report to farmers. The analytics is performed using machine learning algorithms for data processing. The group pf sensors are placed at different agroclimatic stations and it collects variables about weather. The collected data is transmitted through LORA/RF/XBEE for processing and stored using cloud server to generate warning signals. Historical weather charts along with appropriate warning signals help famers for effective decision making regarding crop cultivation.

No. of Pages : 15 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/10/2021

(21) Application No.202111046812 A

(43) Publication Date : 29/10/2021

(54) Title of the invention : A CLOUD COMPUTING TECHNOLOGY-BASED FILE MANAGEMENT AND UPLOADING METHOD & APPARATUS

(51) International classification :H04L0029080000, H04L0029060000, H04L0009320000, H04L0009060000, G06F0016130000

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

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Filing Date :NA

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(57) Abstract :
The present invention discloses a Cloud Computing Technology-Based File management and Uploading Method & Apparatus. The apparatus includes, but not limited to, a computation server provided on a cloud network and configured to receive the synchronization request instruction of client transmission for a file data, wherein the synchronization request instruction is adapted to include file data state and the parameter information of file to be synchronized in client, the parameter information include, but not limited to, the file to be synchronized destination path information, File size, the file to be synchronized partial document cryptographic Hash and the file to be synchronized whole file cryptographic Hash.

No. of Pages : 23 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/10/2021

(21) Application No.202141046585 A

(43) Publication Date : 05/11/2021

(54) Title of the invention : INTELLIGENT AGRICULTURE – SMART IOT SYSTEM TO ASSIST FARMERS IN EFFECTIVE DECISION MAKING USING DATA SCIENCE

(51) International classification :H04L0029080000, G06Q0050020000, G06Q0010040000, G06Q0010060000, A01G0009140000

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

(87) International Publication No : NA

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Filing Date :NA

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

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(57) Abstract :
Research studies shows that the current world population of 7.3 billion is expected to increase to 9.3 billion by the ear 2050. In order to feed the increasing population, Food and Agricultural Organization (FAO), plans to increase the crop cultivation by 70%. Recent days have seen a steep rise in the adoption of IoT to various facters affecting agriculture like climate change monitoring, greenhouse automation, crop cultivation and management, cattle monitoring and management, precision farming, agricultural drones, predictive analysis for smart farming and many more. This invention discloses a Data-driven smart IoT system to help farmers for effective decision making on the choice of the crop to be cultivated in the given time. IoT sensors are capable to predict the humidity in the soil, nature of chemical resources that are apt for cultivation and weather forecasting. These data from IoT sensors are communicated to real-time dashboards and plug-ins using HTTP/COAD/MQTT protocol. Data Science is applied to data from the dashboard and analytics framework is generated. The analytics framework provides suggestions of the choice of the crop the farmer can cultivate and the predicted time to harvest the crop. The data analytics assists farmers for effective decision making during the phases of pre-harvest, farming and post-harvest.

No. of Pages : 15 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046324 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : AI AND WIRELESS BASED SMART DRUG PRESCRIPTION MANAGEMENT FOR AUTONOMOUS DRUG DELIVERY SYSTEM

(51) International classification :G06Q0050220000, G16H0020100000, G07F0017000000, A61J0007000000, G06Q0040080000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
Innovative technology based solutions have explored several fields especially pharmaceutical field. The medical officers generally prescribe drugs to the patient by checking for any side effects towards any drugs. Conventionally these drugs are delivered by pharmacists, where sometimes there is possibility of patient getting their own medication. In such cases, the pharmacist has to evaluate the interaction of drugs, repetitiveness of the drug and the date of prescription in order to optimize pharmacy service to the patient. There is possibility of human error, as it is not possible for the pharmacist to keep all drug interactions in mind, leading to even serious effects such as death of the patient due to side effects. This invention proposes AI and wireless based smart drug prescription management method such that delivery of drugs can made autonomous by the pharmacy management. Optical identification is utilized to identify the information of drug prescription which is stored in pharmacy care database for further retrieval. Drug interactions are priorly stored in the database to crosscheck everytime before delivering the drugs to any patient. This method is efficient in drug prescription management guaranteeing no side effect due to drug interaction.

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

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/10/2021

(21) Application No.202141044803 A

(43) Publication Date : 05/11/2021

(54) Title of the invention : SENSOR BASED INTELLIGENT WEARABLE HELMET FOR EARLY DETECTION OF STROKE IN PATIENTS

(51) International classification :A61B0005000000, A61B0005020500, G16H0050300000, G16H0050700000, A61B0005047600

(86) International Application No :PCT//
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(57) Abstract :
Every year nearly 50 million people suffer from stroke, within which 5 million people become permanently disabled. Early detection of stroke and right time of hospitalization of patients increases the chances of complete recovery. Proposed is a sensor based intelligent wearable helmet for early detection of stroke in patients. The proposed helmet allows real-time monitoring and simultaneous analysis of health parameter of patients, the affected parts of brain and cardio vascular system. The indicators of cardio vascular system are closely connected to increased risk of stroke. This information is important for preventing recurrent occurrence of stroke in patients and would also provide efficient analysis of the collected data. Doctors' visual information about the brain tissue is an important input for detection of stroke. The device is portable and allows patients to make measurements from home during rehabilitation. Doctors can access data from the cloud, and take timely decisions for treatment methods of stroke. Th electromagnetic waves are primary source of input that could easily penetrate the skull and reach the brain. These electromagnetic measurements are processed using signal processing techniques. Machine Learning Algorithm is applied for pattern recognition and efficient diagnosis of stroke.

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