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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043814 A

(19) INDIA

(22) Date of filing of Application :27/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : A CONNECTOR MODULE FOR A VLSI CIRCUIT WITH A BATTERY PACK

(51) International classification :G02B0006420000, H05K0007200000, H01R0012880000, H01R0013660000, G02B0006360000
(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 a connector module for a VLSI circuit with a battery pack. The system includes, but not limited to, a plug configured to VLSI circuit port module be communicatively coupled to the receptacle to be electrically/electronically connected to the receptacle; a coupling unit having a coupling section provided on the VLSI circuit having a shape protruding in a direction in which the external connector module for VLSI circuit is located and having coupling guide ribs, which is configured to guide a coupling position of the connector module for the VLSI circuit by being inserted into the receiving groove when the external device connector module is connected to the connector module of the VLSI circuit. Further, the coupling unit configured to be coupled with the coupling section, enabling the coupling section is movable within a predetermined distance range of the VLSI circuit, and a part, which is further configured to be fixed to the internal electronic / electrical device. Accompanied Drawing [FIG. 1]

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141043325 A

(19) INDIA

(22) Date of filing of Application :24/09/2021

(43) Publication Date : 05/11/2021

(54) Title of the invention : AN EFFICIENT PREDICTION AND ASSESSMENT OF VEHICLES IN REAL TIME TRAFFIC

(51) International classification :G06N0003040000, G06K0009620000, A01K0011000000, H04N0005760000, G08G0001017000

(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 invention will be used to find the vehicles and the detailed information about it like date, place, and Registration and owner information. In traffic each and every vehicles will be monitored and that information is converted from image to text and QCR code. That code will be stored in a database. Using this stored information, we can retrieve the any vehicles information, registration and owner's information. EPV model which applies SVM to separate the videos into frames and store it all in one place and it will be processed and retrieved by the deep learning classification methods.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202141043000 A
(43) Publication Date : 29/10/2021

(54) Title of the invention : A Novel Multimodal Medical Image Fusion System with Pixel Level Fusion

(51) International classification :G06T0005500000, A61B0006000000, G06T0005000000,
G06T0007000000, G06T0011000000
(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
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(57) Abstract :
Image Capturing Devices have quality limitations and their quality limitations can be overcome with the Image Fusion methods. Because of the poor quality of images collected by image capturing systems, the necessity for image fusion in medical imaging has increased dramatically. Different Image Capturing Systems produces different Image Modalities which are fused to improve the quality to diagnose the patient deceases. The information present in the image can be improved by the fusion in different image modalities such CT Images, MR Images, PET Images, and SPECT Images and so on. There is need for developing a fusion system that can be capable of fusing the multiple modality images with more quality and less noise. The present invention disclosed herein is a Novel Multimodal Medical Image Fusion System with Pixel Level Fusion comprising of: Input Image-1 (201); Input Image-2 (202); 2-Level DWT (203); 2-Level DWT (204); PLM Fusion (205); MWGF (206); Inverse DWT (207); PLM Fusion (208); PLM Fusion (209); Entropy (210); Fused Image (211); provides an efficient multimodal image fusion method to improve the quality and understanding the information present in the multimodal images. The present invention uses Discrete Wavelet Transform, Pixel Level Maximum (PLM) and Modified Weighted Gradient Fusion (MWGF). The performance metrics such as Peak Signal-to-Noise Ratio (PSNR) of 78.421, Structural Similarity Index (SSIM) of 0.964, and Standard Deviation of 0.32 are achieved with the present invention disclosed. The present invention is implemented on the Matlab R2019 (a) environment and the dataset is taken from the openly available repositories.

No. of Pages : 16 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/09/2021

(21) Application No.202111041771 A
(43) Publication Date : 01/10/2021

(54) Title of the invention : BLOCKCHAIN BASED INTERNET OF THINGS SYSTEM WITH DATA PROCESSING AND CLEANING METHOD TO THE SENSOR DATA

(51) International classification :H04L 29/08
(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 Sensor Devices, Smart Devices, Actuators, Wearable Health Devices, and the entire internet connected devices are the Internet of Things (IoT) Devices connected through an internet in an intelligent manner. Due to the development of the technology every day, an IoT device increases than the Human on the earth. The Sensors in the IoT network are connected in an intelligent manner for exchanging the data. All the sensors connected to the IoT network through Internet. The Blockchain technology integrated with IoT is required to provide Security, Transparency, and Privacy in transmitting the sensor data to the requested user from the server. The present invention disclosed herein is Blockchain based Internet of Things (IoT) System with Data Processing and Cleaning method to the Sensor Data comprising of: IoT Sensor Network (201); Blockchain (202); Data Processing and Cleaning (203); and Cloud Server (204); provides the Security, Transparency, and Privacy along with reduced storage, and processing cost. The Data Processing and Cleaning method is used in the present invention to remove corrupted and invalid data of the sensors by detecting the invalid and corrupted data. Sometime due to attack or defects sensor may produce corrupted data and processing and storing such data can cause computation and storage cost. The Data Processing and Cleaning method to the Sensor Data avoids storage and processing cost upon receiving corrupted or invalid data. The present invention uses HSA512 hashing and Advanced Encryption Standard for data encryption to provide privacy and security.

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

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/09/2021

(21) Application No.202141041757 A
(43) Publication Date : 01/10/2021

(54) Title of the invention : SENSOR-BASED INTELLIGENT DIGITAL NOSE FOR ANALYSING THE BREATHING PATTERNS OF LUNG CANCER PATIENTS USING MACHINE LEARNING

(51) International classification :G06N 20/00
(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 :

Lung Cancer is one of the most predominant type of cancer leading to mortality due to improper or late diagnosis. According to a research survey, nearly ≥ 1.5 million people die due to lung cancer every year. The proposed is an innovative digital nose that could detect the lung cancer of patients very early based on their breathing patterns and breathing components. Proposed system uses a gas-array sensor for diagnosing the presence of lung cancer. The patient is allowed to exhale his breadth and the same is collected in an airbag using a hose. This breath is converted into Volatile Organic Compounds (VOCs) to be analyzed by gas sensors. Using the gas chromatography, the breadth of the patient is sampled. The VOCs are capable to interact with the electronic digital nose. The gas samples the odour signals using the gas array sensors and classifies using machine learning algorithm. Finally the breadth print of the patient is analyzed and using Intelligent Pattern Matching technique, the lung cancer is detected and classified into different levels, that indicates the severity of the cancer in the patient.

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131041447 A

(19) INDIA

(22) Date of filing of Application :14/09/2021

(43) Publication Date : 26/11/2021

(54) Title of the invention : AN APPARATUS FOR AUTOMATED DATA COLLECTION, MANAGEMENT, AND REPORTING BASED ON DEEP LEARNING AND ARTIFICIAL INTELLIGENCE AND METHOD THEREOF

<p>(51) International classification :G06F0016250000, G06Q0010040000, H04W0072080000, G06F0016280000, G06F0016958000</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)Dr.Sharmila Subudhi Address of Applicant :Assistant Professor, Department of CS&IT, ITER (FET), Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India. Pin Code:751030</p> <p>2)Dr.Anurag Aeron</p> <p>3)Mr.Nafees Akhter Farooqui</p> <p>4)Dr.S.Venkataramana</p> <p>5)Mr.Praveen Kumar Reddy K</p> <p>6)Dr.C.S.Boopathi</p> <p>7)Dr.Sushma Jaiswal</p> <p>8)Dr.Anand Pandey</p> <p>9)Mr. Venkateswara Rao Roniki</p> <p>10)Mr.Tarun Jaiswal</p> <p>(72)Name of Inventor :</p> <p>1)Dr.Sharmila Subudhi</p> <p>2)Dr.Anurag Aeron</p> <p>3)Mr.Nafees Akhter Farooqui</p> <p>4)Dr.S.Venkataramana</p> <p>5)Mr.Praveen Kumar Reddy K</p> <p>6)Dr.C.S.Boopathi</p> <p>7)Dr.Sushma Jaiswal</p> <p>8)Dr.Anand Pandey</p> <p>9)Mr. Venkateswara Rao Roniki</p> <p>10)Mr.Tarun Jaiswal</p>
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(57) Abstract :

The present invention discloses an apparatus for automated data collection, management, and reporting based on deep learning and artificial intelligence and method thereof. The system includes, but not limited to, a receiving unit sending a request for remote data collection to extract data from an online/cloud data source; an extracting data unit in a non-intrusive manner from the online/cloud data source, wherein the data comprises non-standard meta-data; and a communication module for electronically transmitting the data from the remote data collection to a processing location, and further checking the transmitted data at the processing location for validity, in automated fashion against one or more pre-determined rules; and one or more processing units having a deep learning module for selectively retrieve at least portions of the processed data; and selectively generate a plurality of reports associated with the apparatus using at least the selectively retrieved data.

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141040841 A

(19) INDIA

(22) Date of filing of Application :09/09/2021

(43) Publication Date : 24/09/2021

(54) Title of the invention : A SYSTEM FOR PREAMBLE DATA GENERATION AND ENCODING NESTED QR CODE AND METHOD THEREOF

(51) International classification :H04L0029080000, H04N0019136000, H04N0019610000, G06T0001600000, H04N0019645000
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

[035] The present invention discloses a system for Preamble data generation and encoding nested QR code and method thereof. The system includes, but not limited to, one or more processing units provided in a computer network for identifying nested QR blocks of data within the specified data array; the nested QR data blocks are identified in a predefined order, and further, determining a maximum number of bits required to represent any single nested QR data value in the identified data block. Furthermore, the processing unit can be connected to a cloud network and communicatively connected with a computation server and used for processing the preamble data generation and encoded nested QR code by using an operation synchronization device connected to the cloud network. Accompanied Drawing [FIG. 1]

No. of Pages : 26 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141040214 A

(19) INDIA

(22) Date of filing of Application :05/09/2021

(43) Publication Date : 24/09/2021

(54) Title of the invention : DRAGONFLY BRAIN-INSPIRED INTELLIGENT ROBOTIC DRONE TO REMOVE WEEDS IN AGRICULTURAL FARM PLANTS

(51) International classification :G06N0003040000, G06N0003080000, G06K0009000000, A01M0007000000, B64C0039020000
 (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 :

Robotic Drones have become an integral and important part in agriculture today. Starting from identifying the weeds and efficiently spraying the herbicides, drones play a very important role. Also identifying crops which is infected by bacteria or fungi is very important in successful crop cultivation. In this invention we disclose an intelligent robotic drone to identify the weeds and plants affected by bacteria or fungi, classify them and take necessary action of spraying respective pesticides. The identification of weeds by drones tends to be an important challenging area. We develop a machine learning model inspired by dragonfly brain to address this problem. Dragonflies are known for its efficient hunting ability and high accuracy in trapping their prey. The neural system of dragonfly is designed in such a way, that it takes just 10 milliseconds to process the vision- the trajectory motion of the prey and to conclude whether it is reachable or not. The selective attention capability is learnt from the brain of the dragonfly and based on it a machine learning model is developed. Based on this the robotic vision model is developed and intelligent robotic drone is trained to identify the weeds and affected plants and takes necessary steps on spraying pesticides.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131039493 A

(19) INDIA

(22) Date of filing of Application :31/08/2021

(43) Publication Date : 17/09/2021

(54) Title of the invention : MULTIFUNCTION HEAT TRANSMISSION SIMULATOR WITH AI AND MACHINE LEARNING

(51) International classification :G06N0020000000,
B22D0041000000,
G09B0023300000,
G01M0007080000,
H02G0001060000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a multifunction heat transmission simulator with AI and Machine Learning based modules and method thereof. The simulator includes, but not limited to, a housing of a simulator is provided with a base having an impact surface, which is mounted to a heat exchanger; a spring-loaded supporting unit mounted to the base, provided with a resilient rod, which is having a first end and a second end, wherein the first end is secured to the base; and a processing unit with a plurality of sensors coupled to the heat exchanger to provide feedback of the varied operations relating to the vibrations induced by an impactor provided with the assembly.

No. of Pages : 23 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141038588 A

(19) INDIA

(22) Date of filing of Application :25/08/2021

(43) Publication Date : 03/09/2021

(54) Title of the invention : AN IMAGE ANALYSIS DEVICE USING DEEP LEARNING DATA MODELLING AND METHOD THEREOF

(51) International classification :G06F0016583000,
G06K0009620000,
G06K0009460000,
G06N0020000000,
G06N0003080000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

[035] The present invention discloses an image analysis device using deep learning data modelling and method thereof. The device includes, but not limited to, an output unit for attributing information of a plurality of input images, and searches for a predefined drawing image similar to the input image from a knowledge discovery database which is having a drawing image and varied attributes information indicating the attributes of the drawing image; a processing unit connected with an image retrieval unit, which correspondence between feature points of the comparable analogous image to be provided by a data retrieval unit in the retrieved drawing image feature point and the input image, an image referral detection unit for detecting a feature point of the drawing image as corresponding points by using an artificial intelligence interface. Accompanied Drawing [FIG. 1]

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111038153 A

(19) INDIA

(22) Date of filing of Application :23/08/2021

(43) Publication Date : 03/09/2021

(54) Title of the invention : A SYSTEM FOR CLOUD MONITORING AND REPAIR METHOD IN AN IOT NETWORK

(51) International classification	:H04L0029080000, H04L0029060000, H04N0021258000, H04L0012240000, H04L0012280000	(71)Name of Applicant : 1)Dr.Pradheep Manisekaran Address of Applicant .Assistant Professor, Department of Computer Science & Information Technology, NIET, NIMS University Rajasthan, Jaipur, Rajasthan, India. Pin Code:303121 Rajasthan India 2)Dr.Rabinarayan Satpathy 3)Ms.C.Vinothini 4)Ms.Priya J 5)Mr.Raveendranadh Bokka 6)Mr.Gopikrishna Mashetty 7)Dr.K.G.S.Venkatesan 8)Prof.Kattupalli Sudhakar 9)Dr.Sushma Jaiswal 10)Mr.Tarun Jaiswal
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a system for cloud monitoring and repair method in an IoT network and method thereof. The system includes, but not limited to, a cloud monitoring system connected with a cloud user provided for multiple predefined operations on a cloud resource and having a log of each of the performed predefined operation based on the generated log. Further, the cloud monitoring system is provided with a processing unit for determining whether or not the type corresponds to a predetermined operation type with the level of security risk, and the predefined operation when it is determined that the operation type corresponds to the predefined operation type.

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

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S/77

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141038129 A

(19) INDIA

(22) Date of filing of Application :23/08/2021

(43) Publication Date : 24/09/2021

(54) Title of the invention : THE SYSTEM AND APPARATUS FOR PRECISELY SMART FARMING.

(51) International classification :H04L0029080000, G05B0019042000, H02J0003140000, F24S0025120000, A01G0007040000
(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 :

The system and apparatus for precisely smart farming to the smart farming method and system. More particularly present invention relates to the precisely smart farming device and system, also related to the massive records analytics, statistics integration, processing, system mastering, and extra especially relates to an employer Internet-of-Things (IoT) application improvement platform and system for updating system. And the primary sensor unit is configured to screen the plurality of running situations at a plant cover degree from the vertical boom column of the device and run as per feeded programming by users and control easy way by using artificial technology method also every configurable transformer incorporates a change rule for transforming data from the handiest one corresponding source to the standardized facts layout, and wherein stated transformation rule is configured to be modified if a layout of data said corresponding source modifications of the system and method with the process technology.

No. of Pages : 28 No. of Claims : 10