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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/06/2021

(21) Application No.202111028832 A
(43) Publication Date : 23/07/2021

(54) Title of the invention : IMAGE CONTRAST ENHANCEMENT SYSTEM WITH FUZZY BASED THRESHOLD HISTOGRAM EQUALIZATION

(51) International classification	:G06T0005000000, G06T0005400000, G06T0005200000, H04N0005200000, G01S0007520000
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Filing Date	:NA

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(57) Abstract :
Due to varying light source distributions and positions, the problem of overexposure or underexposure might arise during the imaging process. The goal of image enhancement technology is to overcome problems with an image's detailed information that are relatively poor. The fundamental purpose of improving the image is to reveal the hidden details or increase the contrast among images and a new dynamic range. The equalization of histograms is one of the most widely utilized methods for the improvement of image contrast as it is quick and simple to implement. The Fuzzy based Threshold Histogram Equalization approach is a strong tool for enhancing image contrast. The present invention disclosed herein is Image Contrast Enhancement System with Fuzzy based Threshold Histogram Equalization comprising of: Input Image (201); Fuzzification (202); PDF Estimation (203); Histogram Equalization (204); Mapping (205); and High Contrast Image (206); used as a scalable method for enhancing the contrast of an image with the help of Fuzzy Logic and Threshold based Histogram Equalization. The present invention discloses the method and the apparatus used, the type of the input image, the use of fuzzy logic. The image enhancement method is estimated numerically with Features Similarity index (FSII), Contrast Improvement Index (CII), and Entropy (H) in present invention, as set out in the present invention. With the present invention, implemented in the Mat Lab R2019 (a) environment, the Feature Similarity Index (FSIM) of 0.992, a Contrast Improvement Index (CII) of 8.32 and 0.682 bits/symbols entropy are obtained.

No. of Pages : 12 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/06/2021

(21) Application No.202141028054 A
(43) Publication Date : 02/07/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR PROCESSING RANDOM ACCESS PROCEDURES IN RELAY USING STATE-ACTION-REWARD-STATE-ACTION (SARSA)

(51) International classification	:H04W0074080000, H04W0074000000, H04W0084180000, H04B0007155000, H04W0004700000
(31) Priority Document No	:NA
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(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
ABSTRACT A SYSTEM AND METHOD FOR PROCESSING RANDOM ACCESS PROCEDURES IN RELAY USING STATE-ACTION-REWARD-STATE-ACTION (SARSA) [034] The present invention discloses a system and method for processing random access procedures in relay using State-Action-Reward-State-Action (SARSA). The method and system includes, but not limited to, a processing unit, which operates and selects the actuation of relays particularly to a low power random access relay in the IoT environment or in a wireless sensor network. Further, the processing unit is configured to have a State-Action-Reward-State-Action (SARSA) modelling to process the selected relay having a slot time distribution to each downstream joint while the relay is in demand.

No. of Pages : 21 No. of Claims : 8

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S-104

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/06/2021

(21) Application No.202141027526 A

(43) Publication Date : 02/07/2021

(54) Title of the invention : DESIGNING AN ELECTRIC CIRCUIT BY USING A NEURAL NETWORK WITH BAYESIAN INFERENCE TO SELECT SUB-ROUTES FOR CONNECTING ELEMENTS

(51) International classification	:G06N0003040000, G06K0009620000, G06K0009000000, G06N0003080000, G06K0009460000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
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(57) Abstract :

ABSTRACT DESIGNING AN ELECTRIC CIRCUIT BY USING A NEURAL NETWORK WITH BAYESIAN INFERENCE TO SELECT SUB-ROUTES FOR CONNECTING ELEMENTS [034] The present invention discloses a virtual jewellery shopping and related user interfaces. The method and system includes, but not limited to, a plurality of I/O devices for receiving data representing from a plurality of circuit elements; a means implemented with a Convolutional Neural Network (CNN) module is configured to use a Bayesian inference for object detection and recognition of placement of circuit connecting elements through image analysis, and processing models for extracting image features should tolerate pattern deformations and pattern position shifts generate a state signal, which further represents configuration of the electrical circuit. Further, the Bayesian inference and CNN module is used to further identify a plurality of candidate routes for connecting each elements present in the circuit. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/06/2021

(21) Application No.202111025113 A
(43) Publication Date : 18/06/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR SECURE CONNECTION WITH NEWLY CONNECTED DEVICE IN CLOUD NETWORK

(51) International classification	:H04L0029080000, H04L0012280000, H04L0012240000, H04L0012260000, H04W0076140000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
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(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention discloses a system for selecting and determining level of security for newly connected device in a cloud network and method thereof. The system includes, but not limited to, one or more processor; a computer memory holding computer program instructions in the cloud network that when executed by the processor perform a method comprising: receiving, at a cloud terminal a computing device with a context data; generating, a validation message to the other devices using the identified correlation for the newly connected computing device in the cloud network; evaluating, through the context data before setting full duplex communication in the cloud network with the other already connected devices.

No. of Pages : 19 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/06/2021

(21) Application No.202141024465 A
(43) Publication Date : 11/06/2021

(54) Title of the invention : A VEHICLE SIMULATION TOOL BY PROVIDING WSN INSIDE THE VEHICLE WITH AI & ML BASED INTERFACES

(51) International classification	:G06N0020000000, B60W0050080000, B60W0050140000, H04W0084180000, A61B0005000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional tc Application Number Filing Date	:NA :NA

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(57) Abstract :
ABSTRACT A VEHICLE SIMULATION TOOL BY PROVIDING WSN INSIDE THE VEHICLE WITH AI & ML BASED INTERFACES [033] The present invention discloses a vehicle simulation system and tool by providing varied detection for driver with respect to physical and body vitals competency level to drive a vehicle with an Artificial Intelligence (AI) & Machine Learning (ML) based interfaces and method thereof. The vehicle simulation system and tool includes, but not limited to, a plurality of wireless sensors network (WSN) installed inside the vehicle; a display unit having a graphical user interface; a processing unit to receive input from the WSN and activate the other means which needs to be triggered according to the desired driving competency level and a driving seat comfortable level. Further, the processing unit evaluates the desired driving competency level and the driving seat comfortable level by using the trained data through the Artificial Intelligence (AI) & Machine Learning (ML) based interfaces. Accompanied Drawing [FIG. 1]

No. of Pages : 20 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2021

(21) Application No.202141024071 A

(43) Publication Date : 18/06/2021

(54) Title of the invention : A WEARABLE ARTICLE WITH SENSORS AND ML & AI MODULES FOR ANALYSING BEHAVIOUR OF USER

(51) International classification	:G06N0020000000, G06N0005040000, A61B0005000000, G06N0003000000, G06N0007000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

ABSTRACT A WEARABLE ARTICLE WITH SENSORS AND ML & AI MODULES FOR ANALYSING BEHAVIOUR OF USER [032] The present invention discloses a wearable article with sensors and ML & AI modules for analysing behaviour of a user. The wearable article includes, but not limited to, a plurality of sensors to receive varied body vitals of the user; â processing unit to receive the input from the sensors in conjunction with an artificial intelligence interface and a machine learning interface. The artificial intelligence interface and the machine learning interface are configured with an updated database repository on as server to learn and trained the input data for a desired output to analyse the human behaviour. Further, the processing unit is configured to provide a plurality of inferences by comparing a confidence level of the generated inference to a first predetermined threshold. Accompanied Drawing [FIG. 1]

No. of Pages : 19 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/05/2021

(21) Application No.202121023839 A
(43) Publication Date : 02/07/2021

(54) Title of the invention : SMARTMON: MONITORING THE STATUS OF SMART DEVICES VIA NETWORK TRAFFIC

(51) International classification	:H04L0029060000, H04L0029080000, G05B0019418000, G05B0015020000, G06F0021560000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
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(61) Patent of Addition to Application Number	:NA
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(57) Abstract :
The rapid growth of the IoT has led to unprecedented changes in our everyday lives. Among other things, the most common smart home technologies. They create a connected network in which automation is used to improve system Interoperability. In your home environment they use different devices. This type of automation typically runs on platforms that device providers including Samsung, Google and Amazon offer. But, because of malware, unknown applications by third party, and possibly lateral attacks, back-end cloud cannot always be trustworthy. For IoT platforms, in particular, two security threats can be identified which could gain unauthorized control of smart home devices. This thesis shows SmartMon, a framework which detects such violations of security by statically analysing the control logic and parking them with a dynamic execution pattern (SmartApp).

No. of Pages : 6 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/05/2021

(21) Application No.202141023786 A
(43) Publication Date : 11/06/2021

(54) Title of the invention : A NOVEL SYSTEM BASED ON RANDOM SAMPLE CONSENSUS (RANSAC) FOR IRIS RECOGNITION IN NON-IDEAL IMAGING CONDITIONS

(51) International classification	:G06K0009000000, G06T0007330000, G06T0007000000, G06F0016230000, G06T0007285000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
ABSTRACT A NOVEL SYSTEM BASED ON RANDOM SAMPLE CONSENSUS (RANSAC) FOR IRIS RECOGNITION IN NON-IDEAL IMAGING CONDITIONS [032] The present invention discloses a system based on random sample consensus (RANSAC) for iris recognition in non-ideal imaging conditions and method thereof. The system includes, but not limited to, a processing unit adapted to evaluate noisy factors from an iris captured image in non-ideal conditions. The processing unit is further configured to localize the iris boundaries more accurately through random sample consensus (RANSAC) and a deep learning module, and further, configured to have a registration interface for storing the filtered iris image data into an online or local database unit. In addition, the random sample consensus (RANSAC) module is configured to divide the iris image data into small-sub images. Accompanied Drawing [FIG. 1]

No. of Pages : 20 No. of Claims : 8

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2021

(21) Application No.202141023485 A

(43) Publication Date : 11/06/2021

(54) Title of the invention : A SYSTEM BASED ON MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE MODULES FOR PROVIDING IOT NETWORK CONFIGURATION THROUGH USER VOICE AND GESTURE AND METHOD THEREOF

(51) International classification	:H04L0029080000, G06N0020000000, G06F0003160000, G10L0015220000, G06N0003080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
ABSTRACT A SYSTEM BASED ON MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE MODULES FOR PROVIDING IOT NETWORK CONFIGURATION THROUGH USER VOICE AND GESTURE AND METHOD THEREOF [033] The present invention discloses a system based on Machine Learning and Artificial Intelligence modules for providing IoT network configuration through user voice and gesture and method thereof. The system includes, but not limited to, an image capturing device for receiving the live gesture of the user for defining the network configuration between the IoT devices; an audio recording device for receiving the voice command of the user for defining the network configuration between the IoT devices; a plurality of Machine Learning and Artificial Intelligence modules for evaluating the provided weight function for the each of the data input through the image capturing device and the audio recording device; and a processing unit in an IoT environment designed to process and perform mapping of a plurality of weight functions using Natural Language Processing Techniques for audio based input and image processing techniques for image based input. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/04/2021

(21) Application No.202121019989 A
(43) Publication Date : 04/06/2021

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED VOICE COMMANDING GLUCOSE MONITORING AND DETERMINING SYSTEM

(51) International classification	:A61B0005145000, A61B0005000000, G16H0050200000, A61B0005145500, G06Q0040000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
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(61) Patent of Addition to Application Number	:NA
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Filing Date	:NA

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(57) Abstract :
ABSTRACT AN ARTIFICIAL INTELLIGENCE BASED VOICE COMMANDING GLUCOSE MONITORING AND DETERMINING SYSTEM [038] The present invention discloses an AI based system for glucose monitoring and determining compliance. The system includes, but not limited to, an artificial intelligence (AI) module for learning and determining the insulin deliverable amount to the patient after recognising the glucose level of the patient through voice input by user and further providing the voice output with as well the digital output on a user device; a cloud server in conjunction with the artificial intelligence (AI) module to store and process the information and further send it to the user device and determining the glucose level; and a patch based glucose monitoring module operating in conjunction with a processing unit for sensing a blood glucose level of the diabetic patient. Accompanied Drawing [FIG. 1]

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2021

(21) Application No.202121019690 A
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(54) Title of the invention : A NEUROMORPHIC SYSTEM FOR INTEGRATING A MODULAR PIECES OF AN ASSEMBLY

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(57) Abstract :
ABSTRACT A NEUROMORPHIC SYSTEM FOR INTEGRATING A MODULAR PIECES OF AN ASSEMBLY [036] The present invention discloses a neuromorphic system for integrating a modular pieces of an assembly and method thereof. The system includes, but not limited to, a scanning apparatus inside a robotic device to scan all modular pieces and taking images of that modular pieces; a storage device configured to store a plurality of captured image files, each captured image file of the modular pieces specifying in an artificial neural network and Machine learning model corresponding to a finite state machine in a particular configuration; a processor in data communication with the storage device. Accompanied Drawing [FIG. 1]

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(57) Abstract :
ABSTRACT The global network interconnecting physical devices such as mechanical machines, sensors, computing devices, actuators, objects, smart applications and people is termed as Internet of Things (IoT) which has become significant part of several applications. In industrial applications, abundant amount of data is generated during the manufacturing process, which is heterogeneous, massive and time sensitive bringing substantial challenges in real time data collection, its processing and thereby decision making. In this invention, we develop a novel framework for big data analytics for intelligent industrial manufacturing based on Internet of Things for managing the huge data generated in industries for controlling smart manufacturing and for supporting online process of industrial monitoring. The five layers involved in the framework are physical layer, network layer, middleware layer, database layer and application layer for providing architecture based on service oriented for the users. This framework is able to manage emergency events along with management of regular industrial data thereby increasing productivity.

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