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5178

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141038028 A

(19) INDIA

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(54) Title of the invention : Image Reconstruction Method Via Iterative Linear Interpolation Using Verge Points.

(51) International classification :A61K0041000000, A61M0025000000, G06T0005000000,
G06T0001000000, C07K0016000000
(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 :
This work proposes a new method to represent a photograph using verge points, which are elevated spots mainly on the surface of the picture. This document offers a clear and customizable method for repurposing the characters from an input object. This format can be used for a wide variety of applications, including reducing, extracting features, improving images, and manipulating images. The whole technique for the instructional framework verge is done in this study. Image restoration can be easily accomplished using repeated multiple linear regression depending on such verge locations. To provide a more reliable estimate, this recovered verge with appropriate characteristics is also linked to the verge curve. Multiple resolution retrieval systems can also be used to generate continuous representations. The flexibility of this approach is then demonstrated through the presentation of some potential applications.

No. of Pages : 14 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
 (19) INDIA
 (22) Date of filing of Application :20/08/2021

(21) Application No.202141037739 A
 (43) Publication Date : 27/08/2021

(54) Title of the invention : INTELLIGENT PREDICTION AND IMAGE GENERATION MODEL USING MACHINE LEARNING TO TRAIN SELF-DRIVING CARS

<p>(51) International classification :G06K0009000000, G06N0003040000, G05D0001020000, G06N0003080000, G05D0001000000</p> <p>(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</p>	<p>(71)Name of Applicant : 1)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India Tamil Nadu India 2)Sanjaya Kumar Sarangi 3)Rasmita Lenka 4)Dr. Subhadra Mishra 5)Dr. Sujogya Mishra 6)Dr A.Manimuthu 7)Rehkha K.K. 8)R.S.Rashika 9)Dr. Raja Sarath Kumar Boddu 10)Dr Abhishek Agrawal 11)Dr. Sushma Jaiswal 12)Tarun Jaiswal 13)Dr. Pavithra G 14)Dr.T.C.Manjunath</p> <p>(72)Name of Inventor : 1)Dr.S.Balamurugan 2)Sanjaya Kumar Sarangi 3)Rasmita Lenka 4)Dr. Subhadra Mishra 5)Dr. Sujogya Mishra 6)Dr A.Manimuthu 7)Rehkha K.K. 8)R.S.Rashika 9)Dr. Raja Sarath Kumar Boddu 10)Dr Abhishek Agrawal <u>11)Dr. Sushma Jaiswal</u> 12)Tarun Jaiswal 13)Dr. Pavithra G 14)Dr.T.C.Manjunath</p>
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(57) Abstract :
 Today's world has seen a steep rise in the usage of self-driving cars which are capable of driving autonomously in complex traffic environments. Self-driving cars understand the traffic environment by capturing images through a series of cameras mounted on the car which are capable to rotate 360 degrees. Lidar and Radar pipelines gathered are the basic inputs to the autonomous driving control system. Several knowledge-based inputs are computed by applying Convolution Neural Networks on the captured images. The classification makes possible for mapping pixel to specific object. Image segmentation and analysis technique helps to classify the captured image as a pedestrian, or a bus, or a two-wheeler, or a road divider or a dog. Deep Learning mechanism helps in predicting the depth of each pixel in the captured image. Dynamic objects such as moving cars, walking pedestrians are predicted and classified using Machine Learning Algorithms. Skeleton detection System is used for detecting and classifying each pedestrian. Intelligent tracking of key points in the skeleton of pedestrian enables gesture detection and position detection- whether the pedestrian is standing or moving. Predicting and classifying vehicle lights are carried out, so that in case of arrival of ambulance vehicle in the traffic, the car can intelligently decide to slowdown and give way to the ambulance.

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141037545 A

(19) INDIA

(22) Date of filing of Application :18/08/2021

(43) Publication Date : 27/08/2021

(54) Title of the invention : A SYSTEM FOR PROVIDING IOT BASED SECURITY MODULE FOR GUEST SECURITY IN IOT NETWORK AND METHOD THEREOF

(51) International classification	:H04L0029080000, H04L0029060000, H04W0004700000, G06F0009300000, H04W0012000000	(71)Name of Applicant : 1)Mr.Rama Rao Narvaneni Address of Applicant :Professor, Department of CSE, Siddhartha Institute of Engineering & Technology, Ibrahimpatnam, Hyderabad, Telangana, India. Pin Code:501506 Telangana India 2)Mr.Rajesh Kumar Mundotiya 3)Ms.A.S.Subaira 4)Dr.K.Mahesh Kumar 5)Dr.Vinay Kumar Mishra 6)Dr.Sushma Jaiswal 7)Dr.S.Ravichandran 8)Dr.Mandadi Srinivas 9)Mr.Niraj Kumar Rai 10)Mr.Tarun Jaiswal
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[034] The present invention discloses a system for providing IoT based security module for guest security in IoT network and method thereof. The system includes, but not limited to, a processing unit provided in an IoT network and further, having one or more processor core, cache memories, multiple registers for storing a dedicated hash value for each entering guest node with an encryption key; a memory interface provided with an instruction module for creating a secured access memory area in a memory external to the processor chip. Each entering guest node in the IoT network is configured to bind with a unique secure object, which is further connected with a security interface of an IoT computing server to a secure guest of the IoT computing environment. Accompanied Drawing [FIG. 1]

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141037164 A

(19) INDIA

(22) Date of filing of Application :17/08/2021

(43) Publication Date : 27/08/2021

(54) Title of the invention : A NOVEL BLOCK BASED FEATURE LEVEL IMAGE FUSION SYSTEM USING LWT AND NEURAL NETWORKS

(51) International classification	:G06T0005500000, G06T0003400000, G06T0005000000, G01J0003280000, H04N0005253000	(71)Name of Applicant : 1)Dr.Subhadra Mishra Address of Applicant :Assistant Professor, Department of Computer Science and Application, OUAT, Bhubaneswar, Khurda, Odisha, India. Pin Code:751003 Orissa India 2)Prof.Sanjaya Kumar Sarangi 3)Mr.Arabinda Nanda 4)Dr.Sujogya Mishra 5)Mr.Deepak Kumar Swain 6)Dr.Sushma Jaiswal 7)Mr.Tarun Jaiswal 8)Mr.D.Rammurthy 9)Ms.M.Varalakshamma 10)Dr.Gouse Baig Mohammad
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
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(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Images are fused to improve spatial and spectral resolution. Fusion of multispectral images has the objective of maintaining as much spectral information as possible while increasing spatial resolution. There are some issues with DWT-based image fusion, such as spatial distortions in the fused images as well as spectral degradation and characteristic degradation. Combining images with high resolution and low resolution multispectral images using Discrete Wavelet Transforms (DWT) and Neural Networks can overcome problems with DWTs (DWT). The present invention disclosed herein is a Novel Block based Feature Level Image Fusion System using LWT and Neural Networks comprising of: Image Source-1 (101); Image Source-2 (102); Lifting Wavelet Transform (103); Extract Features (104); Index Vector (105); Neural Network (106); and Fused Image (107); used to improve the quality of the fused image of two different image modalities. Fusion images effectively preserve the edge features and component information of objects from various modalities. As a result, the fused image created using the proposed method retains edge information and is clearer because the source images have high resolutions. The performance of the present invention is validated with the metrics Average value of Peak Signal to Noise Ratio (PSNR) of 79.85, Average Fusion Factor (FF) of 1.55, and Average Standard Deviation (SD) of 22.45.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141036940 A

(19) INDIA

(22) Date of filing of Application :15/08/2021

(43) Publication Date : 20/08/2021

(54) Title of the invention : Isotropic Antenna based on AI & ML Interface having Multifunctional guide-wire assemblies

(51) International classification	:G06N0020000000, G06K0009620000, A61M0025000000, A61N0005060000, A61B0005000000	(71)Name of Applicant : 1)Mrs.V.Sarvani Duti Rekha Address of Applicant :Assistant Professor, Department of ECE, Prasad V Potluri Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, India. Pin Code:520007 Andhra Pradesh India 2)Dr.P.Satish Rama Chowdary 3)Dr.R.Tamilkodi 4)Dr.M.S.S.S.Srinivas 5)Dr.B.S.S.V. Ramesh Babu 6)Dr.V.V.S.S.Sameer Chakravarthy 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Mr. Kumar Pratyush 10)Ms.Priya Dule
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[034] The present invention discloses an isotropic antenna based on an artificial intelligence (AI) & Machine Learning (ML) Interface having Multifunctional guide-wire assemblies. The isotropic antenna includes, but not limited to, a plurality of independent RF signals from a corresponding RF generator module for sampling each independent signal at a selected time period per signal and having a combined, time-multiplexed RF output therefrom, and analyzing the RF output signal as an unseparated sequence of multiplexed independent RF signals with a spectrum processing unit for assessing one or more vascular bodily lumens, which is further implemented with Multifunctional guide-wire assemblies. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141036605 A

(19) INDIA

(22) Date of filing of Application :12/08/2021

(43) Publication Date : 20/08/2021

(54) Title of the invention : Sensor Based Intelligent Brain Computer Interface System for Assisting Hand Paralyzed Patients to Perform Typing by Brain

(51) International classification	:G06F0003010000, A61B0005000000, A61N0001360000, A61F0004000000, G06N0020000000	(71)Name of Applicant : 1)Dr.S.Balamurugan Address of Applicant :No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India Tamil Nadu India 2)Ritam Dutta 3)Dr. Eldho K J 4)Dr.G.Fathima 5)Sivaparthipan C.B 6)BalaAnand Muthu 7)Dr. Ravi Mishra 8)Dr. Sushma Jaiswal 9)Tarun Jaiswal 10)Prof. Swati Chaitandas Hadke 11)Dr. Anirban Das 12)Dr. Deepak kumar Panda 13)Dr. Chinmaya Kumar Nayak 14)Sarah Farhat
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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Sensor-Based Intelligent Brain-Computer Interface for Assisting hand paralyzed patients to perform typing by brain provides a way of connecting directly from the brain of the person affected with hand paralysis to interact with external world. A tiny electrical sensor is implanted in the brain of the paralysed patients, which is capable of capturing the activity of neurons in the brain. The captured signals are transmitted on to a computing device and Intelligent Machine Learning Algorithms are applied to convert brain signals to click commands. The imagined alphabets signals is captured from the motor cortex part of the human brain which is responsible for locomotion arrest and certain neurological disorders. The database is equipped with patterns of alphabets and efficient pattern recognition algorithms are designed in such a way that the algorithm is capable to map the signals with alphabets in database with very high accuracy. This brain activity signal based typing enables the people who are affected by brain stroke or paralysis to type on the system.

No. of Pages : 18 No. of Claims : 3

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S. 84

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111036217 A

(19) INDIA

(22) Date of filing of Application :11/08/2021

(43) Publication Date : 03/09/2021

(54) Title of the invention : A SYSTEM HAVING SYNCHRONOUS SIGNALING FOR INTERFACING VLSI CIRCUITS

(51) International classification :G11C0007100000,
G11C0007220000,
G06F0013376000,
G11C0011407600,
G11C0008000000

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

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(57) Abstract :

The present invention discloses a system having synchronous signaling for interfacing VLSI circuits. The system includes, but not limited to, a synchronous memory device connected to a clock receiver circuitry to receive external clock signals from an external bus for a VLSI circuit; a clock producing circuitry communicatively coupled to the clock receiver circuitry, for producing an internal clock signal having a clock edge which is synchronized with the external clock signal and generates another internal clock signal having a clock edge which is synchronized with the other external clock signal and providing a VLSI interface. Further, the synchronous memory device is having a plurality of sense amplifiers for data latching from a one memory cell location to the other memory cell location in response to a read request from the VLSI interface.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141034610 A

(19) INDIA

(22) Date of filing of Application :01/08/2021

(43) Publication Date : 06/08/2021

(54) Title of the invention : A SYSTEM FOR SERVER-DRIVEN DATA SYNCHRONIZATION IN IOT CONNECTIVITY AND METHOD THEREOF

(51) International classification :H04L0029080000,
G06F0016270000,
G06F0016230000,
H04W0004700000,
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(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A SYSTEM FOR SERVER-DRIVEN DATA SYNCHRONIZATION IN IOT CONNECTIVITY AND METHOD THEREOF [037]
The present invention discloses a system for server-driven data synchronization in IoT connectivity and method thereof. The method and system includes, but not limited to, one or more processors for synchronizing data between an IoT based computation server and connected a plurality of IoT devices; an object module instance configured to replicate in response to a replication request received from the computation server and a notification message created. Further, the processors are configured to synchronize, the replicated object module instance through an analytics synchronization engine, at least the portion of the received data. Accompanied Drawing [FIG. 1]

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141034599 A

(19) INDIA

(22) Date of filing of Application :01/08/2021

(43) Publication Date : 06/08/2021

(54) Title of the invention : SKIN CANCER (MELANOMA) DETECTION AND RECOMMENDER SYSTEM USING DEEP LEARNING

(51) International classification :G16H0050200000,
G06T0007000000,
G06K0009660000,
A61B0005000000,
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(57) Abstract :

The Smart Skin Cancer Recommendations using Deep Learning (SSCRDL) helps the doctors/patients to know the stages of the cancer as per the taken Skin cancer image. The SSCRDL is designed in such a manner to predict the testing Skin image cancer stage by matching with the trained image data sets with the help of appropriate Deep Learning (DL) algorithms. The huge collection of skin image data sets are used to train the SSCRDL . Then the patientTMs taken Skin image is inputted to the SSCRDL to know the cancer stage. By using this SSCRDL , the patient itself can know whether he/she is having cancer or not along with its stage. It gives smart safety recommendations to protect from further growth of the cancer as an precautionary basis. Also the doctors can make use of this SSCRDL to take initial decision up to a particular level.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141033370 A

(19) INDIA

(22) Date of filing of Application :25/07/2021

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(54) Title of the invention : A Novel Robust Method for Pattern Recognition System with Enhanced Micro Structure Descriptors based Classification

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(57) Abstract :

The Tumor texture grading and classification is critical for diagnosing brain cancers since image texture can provide vital information on tissue abnormalities. For effective brain Tumor classification, a Pattern Recognition System is necessary to evaluate routinely obtained T1 post-contrast MRI images in order to detect brain Tumors. The structural analysis of both Tumors and normal tissues is required for effectively classifying the brain Tumors. The present invention disclosed herein is a Novel Robust Method for Pattern Recognition System with Enhanced Micro Structure Descriptors based Classification comprising of: MR Image Acquisition (201); Pre-Processing (202); Segmentation (203); Features Extraction (204); Classification (205); and Performance (206); used to evaluate routinely obtained T1 post-contrast MRI images in order to detect brain Tumors. The present invention disclosed herein uses Enhanced Micro Structure Descriptor to extract the features, further it uses VGG-16 with transfer learning approach to classify the brain Tumors. Furthermore, the present invention uses an Anisotropic Filter to remove the unwanted noise components present in the MR images acquired, Region Splitting and Merging in segmentation. The present invention disclosed herein shows better performance with structural analysis of both Tumors and normal tissues classification with classification accuracy of 98.69%.

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(54) Title of the invention : SENSOR BASED INTELLIGENT HAND GLOVES FOR HEALTHCARE PROFESSIONALS FOR USE DURING COVID-19 PANDEMIC

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(57) Abstract :

The Intelligent Hand Gloves (IGH) for COVID-19 scenario helps doctors, healthcare professionals and frontline healthcare staff working with COVID positive people. IGH helps by automatically sanitizing the Gloves after attending every patient. Human body sensor senses the human body. The proximity sensor senses the human body distance. Temperature Sensor senses the human body temperature, which is primary indication of presence of COVID. Human body sensors, proximity sensors and temperature sensors are attached to IGH control unit. After the healthcare professional attends to one COVID patient, the dispenser dispenses the sanitizer and across the hand gloves in an automatic manner. By using this IGH, doctors/healthcare professionals/frontline healthcare staff working with COVID positive people can ensure that their gloves are sanitized after attending every patient, thereby reducing the risk of transmission of COVID.

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(54) Title of the invention : A SYSTEM FOR FILTRATION OF MESSAGES IN A NETWORK USING STATISTICAL PROCESSES AND METHOD THEREOF

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(57) Abstract :

ABSTRACT A SYSTEM FOR FILTRATION OF MESSAGES IN A NETWORK USING STATISTICAL PROCESSES AND METHOD THEREOF [033] The present invention discloses a system for filtration of messages in a network using statistical processes and method thereof. The method and system includes, but not limited to, a rule initiator for creating a plurality of rules for the list of messages by using the statistical processes, in which each of the message is monitored and analyze with its inputs parameters and outputs characteristics, and a processing unit takes corrective actions if the inputs parameters and their outputs characteristics is out of control limits which is updated periodically based on the processed messaging data. The processing unit is configured for identifying object associated in each of a message thread objects with a messaging interface for the list of messages; and a user interface provided on a user device for selecting messages from the list of messages. Accompanied Drawing [FIG. 1]

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