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GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	202041042902
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/10/2020
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TITLE OF INVENTION	IMAGE SUPER RESOLUTION DENOISING SYSTEM WITH DEEP CONVOLUTIONAL GENERATIVE ADVERSARIAL NETWORKS
FIELD OF INVENTION	COMMUNICATION
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E-MAIL (UPDATED Online)	
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PUBLICATION DATE (U/S 11A)	09/10/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/10/2020

(21) Application No.202041043966 A
(43) Publication Date : 16/10/2020

(54) Title of the invention : IMAGE COMPRESSION IN AUTOMATIC CONTRAST ENHANCEMENT SYSTEM WITH CURVE FITTINGS

(51) International classification :G06T 5/00
(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 :
In Low Contrast RGB Colour Images, pixels are distributed over the low dynamic range. It is often difficult to understand the information present as the human eye is more prominent to the Luminance component present than the Chrominance or Colour Components. So Contrast Enhancement is required to increase the visuality of the RGB Colour Image by increasing the Luminance component without introducing any unwanted artifacts and noise. The present invention disclosed here, Image Compression in Automatic Contrast Enhancement System with Curve Fittings comprising of: Input Image (101); Extraction of Primary Colour Channels (102); Extraction of Region of Interest (103); Fitting Curves (104); Region Merging (105); Contrast Enhanced Image (106); Image Compression with Curve Fittings (107); Compressed Image (108); automatically enhance the contract in the RGB Colour Images with curve fittings. After Contrast enhancement, the present invention disclosed here is facilitated with the Image Compression with Curve Fittings comprising of: Pre-processing (201); Decorrelation (202); Curve Fitting (203); Quantization (204); Huffman Encoding (205); Compressed Image (206); to reduce the size of an RGB image by reducing the redundant data present.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/12/2020

(21) Application No.202041055890 A
(43) Publication Date : 05/02/2021

(54) Title of the invention : Detection of critical safety events in manufacturing industries using data mining

(51) International classification :G05B19/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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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7)Dr.K. SelvaBhuvaneswari
8)Dr. Uzzal Sharma
9)Dr.Keerthika T
10)Dr. Reddappa H.N.
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9)Dr.Keerthika T
10)Dr. Reddappa H.N.
11)Dr. Ashok Kumar P S
12)Dr. P. Ravikanth Raju

(57) Abstract :
In recent times, safety management is an important factor in many industries. The industries are to be guided with an effective management method. The strategy in safety management includes incident reporting and an investigation system. The incident reporting systems are utilized in both individual plant-based systems and wide-industry systems. The main purpose of incident reporting systems is to provide effective safety management through the collection of data about the industries. The company manufacture™s machinery and equipment establishment are important in different industries including cement, defense, work machines, mining, wood, iron and steel, energy, and ship buildings. Field observations and focus groups are necessary for detecting the risk in different functional units and sectors. Determination of risk to the surrounding functional units, its effects, and analysis is required. Lack of information and ignorance of fault is responsible for risk. Risk management includes Occurrence of risk, collection of informational data related to risk, and analysis of data are a difficult task. The effective determination of risk and timely decision making is possible through the data mining technique. The complete details of the company and its structure help in the identification of accidents both in external and internal causes. In the workplace, the manufacturers face the risk factor in all directions. The nature of risk may vary from the simple model to the critical mode. Management and mitigation efforts are different and it is dependent on the exposure of risk in the manufacturing industries. This invention is intended for the development of safety measures in the industrial sector during an accident in the manufacturing industries. The proposed invention utilizes the data mining technique for continuous monitoring of the industrial activity and helps in identifying the risk during hazardous conditions. This invention develops a data mining model using the collection of previous data of critical risk and this proposed model is capable of solving a large number of problems in the manufacturing industries.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/07/2021

(21) Application No.202141032274 A
(43) Publication Date : 13/08/2021

(54) Title of the invention : A Dual Role Antenna System with Noise Mitigation

(51) International classification	:H04B0007185000, H01Q0009040000, H01Q0003240000, H04K0003000000, H04B0007155000
(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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2)Dr.S.Shafiulla Basha
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4)Dr.Basavaraj G Kudamble

(57) Abstract :
[033] The present invention discloses a dual-role antenna assembly with noise mitigation. The dual role antenna is configured to receive a radio frequency (RF) signal carrying a GPS source signal including a C/A code. Further, the dual role antenna is configured to have a first asymmetrical gain pattern with a first higher gain sector in a first direction; and to have a second asymmetrical gain pattern with a second higher gain sector in a second direction, the second curled inverted-F substantially omnidirectional antenna being adapted for communicating with either of GEO satellites or LEO/MEO satellites. Furthermore, a communication selection switch for selectively connecting the first asymmetrical gain pattern substantially omnidirectional antenna and the second asymmetrical gain pattern substantially omnidirectional antenna to an RF front-end. Accompanied Drawing [FIG. 1]

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/07/2021

(21) Application No.202141032274 A
(43) Publication Date : 13/08/2021

(54) Title of the invention : A Dual Role Antenna System with Noise Mitigation

(51) International classification	:H04B0007185000, H01Q0009040000, H01Q0003240000, H04K0003000000, H04B0007155000
(31) Priority Document No	:NA
(32) Priority Date	:NA
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(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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4)Dr.Basavaraj G Kudamble

(57) Abstract :
[033] The present invention discloses a dual-role antenna assembly with noise mitigation. The dual role antenna is configured to receive a radio frequency (RF) signal carrying a GPS source signal including a C/A code. Further, the dual role antenna is configured to have a first asymmetrical gain pattern with a first higher gain sector in a first direction; and to have a second asymmetrical gain pattern with a second higher gain sector in a second direction, the second curled inverted-F substantially omnidirectional antenna being adapted for communicating with either of GEO satellites or LEO/MEO satellites. Furthermore, a communication selection switch for selectively connecting the first asymmetrical gain pattern substantially omnidirectional antenna and the second asymmetrical gain pattern substantially omnidirectional antenna to an RF front-end. Accompanied Drawing [FIG. 1]

No. of Pages : 19 No. of Claims : 8

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Application Details	
APPLICATION NUMBER	202241055207
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/09/2022
APPLICANT NAME	1 . Dr.T.Balachander 2 . Mrs. Ujwala Mokati 3 . Mr. Manishkumar Kanjibhai Patel 4 . Mr.Dinesh Kumar 5 . Dr. N Balavenkata Muni 6 . Mrs. P Deepa
TITLE OF INVENTION	CLOUD CONNECTED BASED DIGITAL SMART METER FOR ACCURATE BILL CALCULATION IN INDUSTRY
FIELD OF INVENTION	MECHANICAL ENGINEERING
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/10/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents

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Application Details	
APPLICATION NUMBER	202241003876
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/01/2022
APPLICANT NAME	1 . Dr. K. GUNASEKARAN 2 . Dr. RAMESH KUMAR BHUKYA 3 . Dr. RAMKUMAR S 4 . Dr. BASAVARAJ G KUDAMBLE 5 . Mr. RAGHUL G 6 . Mr. R. PARTHEEPAN 7 . Dr.V. POONGUZHALI 8 . Ms. P. PADMAPRIYA 9 . Mr. K. S.PRABAKAR 10 . Mr. KISHORE ABISHEK
TITLE OF INVENTION	MACHINE VISION BASED IOT ENABLED SPINACH HARVESTING ROBOT WITH SEMI-MANUAL CONTROL
FIELD OF INVENTION	PHYSICS
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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APPLICATION STATUS	Awaiting Request for Examination

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Filed → Published → RQ Filed → Under Examination → Disposed

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Application Details	
APPLICATION NUMBER	202241005804
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	03/02/2022
APPLICANT NAME	1 . Dr. P.G. KUPPUSAMY 2 . Dr. M.A. MANVASAGAM 3 . Mr. E.MURALI 4 . Dr. K. GUNASEKARAN 5 . Dr. R. BHUVANESWARI 6 . Ms. V. NISHA PRIYADHARSINI 7 . Dr. S. NITHYASELVAKUMARI 8 . Mr. R. PARTHEEPAN 9 . Mr. M. MARISELVAM 10 . Mr. KISHORE ABISHEK
TITLE OF INVENTION	IMAGE PROCESSING BASED DUPLICATE TABLETS IDENTIFICATION SYSTEM FOR MEDICAL SHOPS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
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E-MAIL (UPDATED Online)	
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/12/2022

(21) Application No.202241076210 A
(43) Publication Date : 06/01/2023

(54) Title of the invention : REAL TIME MONITORING OF WATER QUALITY IN IOT ENVIRONMENT

(51) International classification	:G01N0033180000, G01N0021530000, G01D0021020000, H04B0005000000, G06N0020000000
(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 :
Water is precious and need for everyone in their daily life. Without water we cannot live. Now a day's water is getting polluted in many ways. Because of this health issues are becoming more and more. The main reasons for pollution of water are rapid growth of industries and deforestation. Here there came a requirement for water quality checking with innovative methods. Poor water quality spreads disease, causes death and hampers socio-economic progress. This project is an overview for the recent innovations that happened in checking of water quality. It is also a simple solution for checking water in pipe lines. The data is collected and is sent to the server so that the authorities can know the water quality from their offices only. In this project pH, Turbidity sensors are used to check the parameters like temperature near that place, to know the nature of the water we are using pH and to know that any particles present inside Turbidity sensor is used. All the sensor data will be sent to the server which can be monitored at any time and message will be sent if any sensor crosses its threshold values.

No. of Pages : 21 No. of Claims : 5

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021103991

The Commissioner of Patents has granted the above patent on 30 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

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Hakeem Aejaz Aslam of Assistant Professor, ECE Department, Muffakham Jah College of Engineering and, Technology Hyderabad Telangana 500034 India

Title of invention:

A HYBRID SYSTEM AND METHOD FOR RETINAL BLOOD VESSEL EXTRACTION USING WEIGHTED CONTRAST IMAGES

Name of inventor(s):

Shaik, Shafiulla Basha and Ramanaiah, K. Venkata

Term of Patent:

Eight years from 9 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 30th day of March 2022

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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Application Details	
APPLICATION NUMBER	202241076219
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/12/2022
APPLICANT NAME	1 . Dr. B. SAROJA 2 . Dr. D. REGAN 3 . Dr. S. VISHNU PRIYAN 4 . J. DURGA BHAVANI 5 . P. MANIMOHAN
TITLE OF INVENTION	AUTOMATIC NUMBER PLATE RECOGNITION USING RASPBERRY PI AND PYTHON
FIELD OF INVENTION	ELECTRONICS
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E-MAIL (UPDATED Online)	
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PUBLICATION DATE (U/S 11A)	06/01/2023

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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Government of India

INTELLECTUAL PROPERTY INDIA

Application Details	
APPLICATION NUMBER	202241001732
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/01/2022
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TITLE OF INVENTION	MULTIPLE SENSOR DATA FUSION ENABLE IOT BASED ROBOTICS VEHICLE FOR SOIL CONDITION MONITORING
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	lokkugurukumar@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (U/S 11A)	28/01/2022