

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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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/10/2020

Application Status

[View Documents](#)

(12) PATENT APPLICATION PUBLICATION
(19) INDIA

(21) Application No.202041043966 A

(22) Date of filing of Application :08/10/2020

(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	(71)Name of Applicant :
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(32) Priority Date	:NA	Address of Applicant :Assistant Professor, Department of ECE, GITAM Institute of Technology, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, India. Pin Code: 530045 Andhra Pradesh India
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Filing Date	:NA	4)Dr.S.KrishnaVeni
(87) International Publication No	:NA	5)Mr.K.V.V.Prasad
(61) Patent of Addition to Application Number	:NA	6)Mrs.B.Kanthamma
Filing Date	:NA	7)Mr.Chanda Laxmanasudheer
(62) Divisional to Application Number	:NA	8)Dr. A.Ch Sudhir
Filing Date	:NA	9)Dr. Thota Vidhyavathi
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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 visibility 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 contrast 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

(21) Application No.202041055890 A

(19) INDIA

(22) Date of filing of Application :22/12/2020

(43) Publication Date : 05/02/2021

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

<p>(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</p>	<p>(71)Name of Applicant : 1)Dr. M. Janardhana Raju Address of Applicant :Principal, Siddartha Institute Of Science And Technology: Puttur (Autonomous), Puttur, Chittoor Dist 517 583, AP (India) Andhra Pradesh India 2)Dr.M. Gurusamy 3)Mr. Thulasimani T 4)Dr.S. Jagadeesan 5)Mr. V. Charles Prabu 6)Dr. V. Lokeswara Reddy 7)Dr.K. SelvaBhuvaneswari 8)Dr. Uzzal Sharma 9)Dr.Keerthika T 10)Dr. Reddappa H.N. 11)Dr. Ashok Kumar P S 12)Dr. P. Ravikanth Raju</p> <p>(72)Name of Inventor : 1)Dr. M. Janardhana Raju 2)Dr.M. Gurusamy 3)Mr. Thulasimani T 4)Dr.S. Jagadeesan 5)Mr. V. Charles Prabu 6)Dr. V. Lokeswara Reddy 7)Dr.K. SelvaBhuvaneswari 8)Dr. Uzzal Sharma 9)Dr.Keerthika T 10)Dr. Reddappa H.N. 11)Dr. Ashok Kumar P S 12)Dr. P. Ravikanth Raju</p>
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(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 manufactureTMs 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

(21) Application No.202141032274 A

(19) INDIA

(22) Date of filing of Application :17/07/2021

(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	(71) Name of Applicant : 1)Dr Syed Jahangir Badashah Address of Applicant :Professor in ECE, Sreenidhi Institute of Science and Technology (Autonomous), Yanampet, Hyderabad, Telangana, India. Pin Code:501301 Telangana India
(31) Priority Document No	:NA	2)Dr.S.Shafiulla Basha
(32) Priority Date	:NA	3)Dr.M.Janardhan Raju
(33) Name of priority country	:NA	4)Dr.Basavaraj G Kudamble
(86) International Application No	:PCT//	(72) Name of Inventor :
Filing Date	:01/01/1900	1)Dr Syed Jahangir Badashah
(87) International Publication No	: NA	2)Dr.S.Shafiulla Basha
(61) Patent of Addition to Application Number	:NA	3)Dr.M.Janardhan Raju
Filing Date	:NA	4)Dr.Basavaraj G Kudamble
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(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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(31) Priority Document No	:NA	2)Dr.S.Shafiulla Basha
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(87) International Publication No	: NA	2)Dr.S.Shafiulla Basha
(61) Patent of Addition to Application Number	:NA	3)Dr.M.Janardhan Raju
Filing Date	:NA	4)Dr.Basavaraj G Kudamble
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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[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]

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