(54) Title of the invention : SMART ROBOT FOR METAL DETECTION

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(57) Abstract :
Metal Detector robot is an instrument controlled by an Android based smart phone that detects the presence of metals, especially landmines on a designated location. The old method of landmine detecting such as direct sweeping is very risky for stepping the landmine unintentionally. In this Research, the robot system is equipped with a metal detector useful to detect the metal presence based on coil induction when it is approaching the metal. LCD works as an interface showing frequencies of detected metals. The robot movement is controlled by DC's current motor programmed using Arduino UNO. When the robot detects the metal presence, the buzzer sound will be triggered, and the LCD shows the detected metal frequency.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011963 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : DIAGNOSIS OF A PATIENT TO DETECT COVID-19 USING DEEP LEARNING

(51) International classification	:G06N0003080000, G06N0003040000, G16H0015000000, G16H0050200000, G16H0050800000
(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 :
The COVID-19 outbreak has put the whole world in an unprecedented difficult situation bringing life around the world to a frightening halt and claiming thousands of lives. Due to COVID-19's spread in 212 countries and territories and increasing numbers of infected cases and death tolls mounting to 532,201,219 and 6,305,358 (as of June 6 2022), it remains a real threat to the public health system. This project renders a response to combat the virus through Artificial Intelligence (AI). Some Deep Learning (DL) methods have been illustrated to reach this goal, including Generative Adversarial Networks (GANs), Extreme Learning Machine (ELM), and Long/Short Term Memory (LSTM). It delineates an integrated bioinformatics approach in which different aspects of information from a continuum of structured and unstructured data sources are put together to form the user-friendly platforms for physicians and researchers. The main advantage of these AI-based platforms is to accelerate the process of diagnosis and treatment of the COVID-19 disease. The most recent related publications and medical reports were investigated with the purpose of choosing inputs and targets of the network that could facilitate reaching a reliable Artificial Neural Network-based tool for challenges associated with COVID-19. Furthermore, there are some specific inputs for each platform, including various forms of the data, such as clinical data and medical imaging which can improve the performance of the introduced approaches toward the best responses in practical applications.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011964 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : INNOVATIVE VISIBILITY ENHANCEMENT FOR POOR QUALITY IMAGES IN INCLEMENT DUSTY WEATHER

(51) International classification :G06T0005000000, G06T0005400000, H04N0005217000, G02F0001133630, H04N0017020000	(71)Name of Applicant : 1)Dr Ram Bharos Yadav Address of Applicant :G.B. Pant Institute of Engineering and Technology Pauri Garhwal Uttarakhand India-246194. ----------- ---------- 2)SK. Hussain 3)Dr. Hira Lal Yadav 4)N P Raju Pasupuleti 5)Dr. Prashant R 6)Dr. L. Bhagyalakshmi 7)Ashis Kumar Mishra 8)Dr.Tilak Mukherjee Name of Applicant : NA Address of Applicant : NA
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(57) Abstract :
This innovation concentrates on the visibility of an image captured industry weather. An inclement dusty weather can significantly reduce the visual quality of captured images and this consequently leads to hamper the observation of meaningful image details. Capturing images in such weather often leads to poor contrast, deficient colors or color cast. The existing method is "Histogram equalization". Drawbacks of this method is improper dust removal, Image pixels are corrupted, increasing the contrast of its background, low clarity. Proposed method is "Fuzzy Tristate Mechanism". Advantages of this method is Improved clarity, peak signal to noise ratio (PSNR) increases, high noise removal and histogram is equally balanced with contrast, color cast and brightness level.

No. of Pages : 10 No. of Claims : 4

(54) Title of the invention : IOT ENHANCED AUTONOMOUS SURVEILLANCE ROBOT SYSTEM

(51) International classification :B25J0009160000, G05D0001020000, G08B0019000000, G08B0013196000, G06N0005040000	(71)**Name of Applicant :**
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(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	

(57) Abstract :
The IoT-Enhanced Autonomous Surveillance Robot System designed for both industrial and home applications integrates cutting-edge technologies to redefine security and monitoring paradigms. Focused on safety and adaptability, the system incorporates the MQ2 gas sensor and a dedicated smoke sensor, providing intelligent hazard recognition capabilities. Leveraging advanced navigation algorithms and real-time IoT connectivity, the robot moves dynamically and communicates seamlessly. The real-time IoT connectivity establishes a responsive communication network, allowing for immediate remote monitoring and control. Incorporating user-friendly interfaces, the system serves both industrial and home purposes seamlessly, providing tailored security solutions. Supported by parameter proofs and adaptability metrics, this IoT-enhanced autonomous surveillance robot system signifies a technological leap, promising enhanced safety and monitoring capabilities across a spectrum of environments.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011966 A

(43) Publication Date : 08/03/2024

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(54) Title of the invention : INCREMENTAL FORMING OF AL 6014

(51) International classification :B21D0031000000, C21D0009460000, G01N0003280000, B21D0022020000, G06F0113240000

(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 :
Single Point Incremental Forming (SPIF) is steel sheet forming process in three-dimensional shapes. It is likely to be used for prototyping rapidly and minimum volume production of metal sheet parts. The recompenses of SPIF process is low cost tooling, less product lead time, and high flexibility. While abundant research have been conceded out to fit the method for industrial function, still they still stumble upon insufficient forming qualities in the sheet metal products. Since the major researches are mainly done only on the hemispherical tool. This research mainly focuses on the development of single point incremental forming process using roller ball tool at room temperature. A group of polymer materials with high industrial potential applications are opted for the single point incremental forming process. The application mainly encloses automobile components, medical components and electrical components. Previous researches were done on the conical shape, but square geometry has been attempted for the study. In evaluating the early formability, the Erichsen cupping test is performed for all materials. Moreover, Forming Limit Diagram (FLD) for materials in single point incrementally forming is performed experimentally to identify the forming limit of individual materials. The results obtained are deliberated with dissimilar process parameters and the belongings are identified as (i) Process formability (ii) Forming forces (iii) Microstructure analysis and (iv) Surface roughness. The work explores a number of aspects of single point incremental forming on polymers, although the most important contribution aims on optimization of process parameters and its validation. It improves the process formability and obtains maximum uniform thickness distribution of the formed parts. This gives an considerate into supplementary progress and the purpose of single point incremental forming technology in the production.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011967 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : DIGITALIZATION OF ANTI-CORRUPTION MONITORING SYSTEM

(51) International classification : G06Q0050260000, G06Q0010100000, G06F0021620000, G09B0007020000, G16H0020000000

(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 :
This patent concentrates on the implementation next generation police and law enforcement reporting tools and setting up an intelligence platform that allows the citizen to file complaints. To do one must have a user-friendly interactive system. Since once young age the word corruption has been one of the most frequently used words, we have come across. So, what exactly is corruption? Corruption is a form of dishonesty or a criminal offence which is undertaken by a person or an organization which is entrusted with an authority, to attain benefit for personal gain. We have seen may online web applications that have been implemented to help the citizens/users in their day-to-day activities. From online booking to online payments, we have Digitalized every application which can be easy accessed through one's personal mobile phones or laptops. Similarly, corruption can be reduce by corruption prevention initiative such as an Online platform which uses the concept of database integration for government agencies which is considered to be the most realistic scenarios which benefits the reduction of average cycle time by 34.20%,faster bid evaluation process, and eliminating face-to-face processes to prevent collusion, strengthening E-Tendering supervision with Self-Monitoring, Analysis, Reporting Technologies (SMART) making it ideal for long-term projects. This patent makes sure that the user can file a complaint without any hesitation as the information provide by them during the registration such as contact number, address, email id is encrypted making sure that the users identity is kept confidential.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : AN INTELLIGENT SYSTEM FOR DIABETIC RETINOPATHY IDENTIFICATION USING EYE FUNDUS IMAGES

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(51) International classification : G06N0003040000, G06K0009620000, G16H0050200000, G06T0007000000, A61B0005000000

(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

(57) Abstract :
Automated Diabetic Retinopathy (DR) detection, screening and diagnosis are critical to save vision loss of patients and assist the ophthalmologists in mass screening. DR screening aims at early treatment of the disease by detecting it before the stage progresses. Present DR analysis systems use digital funds images for diagnosis reducing the high cost of manual computation. Researchers are continuously persisting for automated screening systems which can reduce the subjective interpretation and screening burdens for ophthalmologists. This invention proposes different Convolution Neural Network (CNN) architectures with parameter tuning for DR classification. The proposed approach overcomes the class imbalance problem by fine tuning the network parameters. Different filter size variations are considered in the design and their altering response are analyzed at the classification output layer on a benchmark retinal image dataset. CNN model proposed in this invention provides an accuracy of 87.5% with cross entropy loss of 0.6370 with processing time of 1 minute and 23 seconds. Maximum accuracy improvement of 13% is achieved by the proposed approach over state of the art methods demonstrating its pre-eminence in fundus image classification.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011969 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : ARTIFICIAL INTELLIGENCE IN FITNESS AND DIET RECOMMENDATION USING E- HEALTH MONITORING

(51) International classification	:A61B0005000000, G16H0020600000, A61B0005020500, G16H0040670000, A61B0005021000
(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 :
Nowadays, more individuals are being diagnosed with diseases that are becoming chronic due to not following the proper diet, not doing proper exercise regularly, or not giving proper attention to the diseases because of busy schedules. Hence, we propose a system that aims at improving the health of the patients suffering from various diseases by recommending them healthier diet and exercise plans by analyzing and monitoring health parameters and the values from their latest reports related to the disease. We considered patients suffering from either Diabetes or Blood pressure or Thyroid. Our System can be essentially useful for the doctors to recommend diet and exercise based on their latest reports and personal health details. For this, we have broadly classified our system into 2 modules: 1. Health Monitoring, 2. Diet & Exercise Recommendation. In the Health Monitoring module, the system would suggest follow-up sessions until the reports come normal. For the Diet and Exercise Recommendation module, the algorithm that is used is a Decision tree for classification. To be precise, C4.5 is used to give recommendations of diet and exercise. A C4.5 Decision tree will help recommend and determine if a particular food item and exercise should be given to a particular individual or not with respect to our customized datasets.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011970 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : HUMANOID ROBOT

(51) International classification :G06Q0030060000, G06Q0010020000, G06Q0050120000, G06Q0050140000, H04L0067100000	(71)**Name of Applicant :** 1)**Dr. Yenda Srinivasa Rao** Address of Applicant :Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh- 532410. ----------- ----------- 2)**Dr. Krishna Medaraboina** 3)**Mr. V.Harinath** 4)**Mr. G.Sudhakar** 5)**Mr. P. Naveen Kishore** 6)**Mr. K,Mothila** 7)**Dr. Ravinaik Banoth** 8)**Mrs.K. Hemalatha** **Name of Applicant : NA** **Address of Applicant : NA** (72)**Name of Inventor :** 1)**Dr. Yenda Srinivasa Rao** Address of Applicant :Sri Sivani College of Engineering, Srikakulam, Andhra Pradesh- 532410. ----------- ----------- 2)**Dr. Krishna Medaraboina** Address of Applicant :Matrusri Engineering College Osmania University, Saidabad road, DBR enclave New Malakpet, Hyderabad, Telangana-500059 ----------- ----------- 3)**Mr. V.Harinath** Address of Applicant :Matrusri Engineering College Osmania University, Saidabad road, DBR enclave New Malakpet, Hyderabad,Telangana-500059 ----------- ----------- 4)**Mr. G.Sudhakar** Address of Applicant :Hyderabad Central University, Gachibowli, Hyderabad, Serilingampalle (M), Telangana 500032 ----------- ----------- 5)**Mr. P. Naveen Kishore** Address of Applicant :Osmania University, Kaziguda Hyderabad Telangana--500007, India ----------- ----------- 6)**Mr. K,Mothila** Address of Applicant :Ellenki College of Engineering And Technology,Near Bhel ,Patelguda, Telangana -502319 ----------- ----------- 7)**Dr. Ravinaik Banoth** Address of Applicant :St. Martin,s Engineering College, Dhulapally, Kompally, Secunderabad, 500100 ----------- ----------- 8)**Mrs.K. Hemalatha** Address of Applicant :St. Martin,s Engineering College, Dhulapally, Kompally, Secunderabad, 500100 ----------- -----------
(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	

(57) Abstract :
Robots represent some of the most effective forms of hospitality technology, and their presence will help then sure superior levels of guest satisfaction. As a growing number of properties are employing these autonomous "smart" services, it only stands to reason that we examine these robots in greater detail. From a financial point of view, hospitality technology is becoming cheaper to implement. This signifies that even smaller properties such as boutique hotels can leverage the associated advantages. However, we also need to keep in mind the fact that the requirements of the guests themselves are beginning to change. Thanks to wireless connectivity and the nearly ubiquitous presence of smart phones, customers have come to expect second-to-none levels of service during their stay. . From a financial point of view, hospitality technology is becoming cheaper to implement. This signifies that even smaller properties such as boutique hotels can leverage the associated advantages. However, we also need to keep in mind the fact that the requirements of the guests themselves are beginning to change. This obviously involves the presence of technology to a certain degree. Hotel robots are able to offer such a competitive advantage, so it only stands to reason that managers are choosing to take advantage of such opportunities.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : INTELLIGENT SMART MINE SAFETY SYSTEM WITH REAL TIME ALERTS

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(57) Abstract :
This article helps in dealing efficiently in hazardous situations in mines etc. Gas leakage is one of the major threats that exist in every industry and home; it may cause suffocation or even dangerous fires that could lead to huge injuries or lots of losses and damage. From this point we can see how much the importance of existence of a device that can detect the gas leakage and act at the same time. We designed and implemented an intelligent industrial security system that monitors gas, temperature and human and provides alert through GSM when the threshold limits are exceeded. The communication is properly done without any interference between different modules in the design. Design is done to meet all the specifications and requirements. With this system we can keep the human presence to minimal. We designed and implemented a GSM based industrial security system and we obtained efficient results providing better security compared to the previous systems and it provides quick response rate and the diffusion of the critical situation can be made faster than the manual methods.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011972 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : DEEP LEARNING FOR STREET TEXT RECOGNITION IN INTELLIGENT TRANSPORTATION

(51) International classification	:G06T0007130000, G06T0007136000, G06T0007660000, G06F0040300000, G06K0009620000
(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 :
Text detection in natural scene images is an important prerequisite for many content based image analysis task . In this Invention, we propose an accurate method for detecting text in natural scene images. The existing method for text detection is Canny edge detection, in this method edges of the text are detected but the downside of this method is that the edge detection is inaccurate. The proposed work is on implementation of efficient text detection method using Maximally Stable ExtremalRegion(MSER). The proposed algorithm extracts from an image a number of co-variant regions called MSER , it is based on the idea of taking regions which stay nearly same through a wide range. This algorithm has highest accuracy in detection with low overlapping developed using MATLAB 2016a Software.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011973 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : EFFICIENT BRAIN MRI SEGMENTATION: A NOVEL IMAGE PROCESSING APPROACH

(51) International classification	:G06K0009620000, G16H0030400000, G06T0007110000, G16H0010600000, G16H0050200000
(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 :
In earlier days manual brain tumor segmentation is performed by radiologists that resulted in inaccurate location of brain tumor that caused huge loss to the patient's health. So to overcome this disadvantage we are using the automated system for detecting the tumor which is implemented by clustering techniques of FCM and K-Mean. Detection and removal of tumor is one of the medical issues that still remain challenging in the field of medicine. Due to the drawbacks in existing system we are implementing the proposed system by AFKM clustering technique.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011974 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : DEEP CNN-BASED CHEST X-RAY DENOISING FOR ENHANCED MEDICAL IMAGING

(51) International classification :G06N0003040000, G06N0003080000, G06T0005000000, G06T0007000000, G16H0050200000	(71)**Name of Applicant :**
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(86) International Application No :NA
          Filing Date :NA
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(87) International Publication No : NA	**2)Dr. V. Sharmila** Address of Applicant :Vignana Bharathi Institute of Technology, Aushapur (V), Ghatkesar (M), Medchal Dt.501301. ----------- -----------
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(57) Abstract :
Deep Convolutional Neural Network (CNN)-based chest X-ray denoising has emerged as a promising approach to enhance the quality of medical imaging for improved diagnostic accuracy. In this study, we propose a novel deep learning architecture designed to effectively reduce noise and artifacts present in chest X-ray images. The deep CNN leverages its ability to automatically learn hierarchical features from large datasets, comprising both clean and noisy chest X-ray images. The training process enables the network to distinguish between noise and critical anatomical structures, leading to enhanced visibility and interpretability. The objective is to optimize medical imaging by providing radiologists and healthcare professionals with clearer images, ultimately contributing to more accurate diagnoses and better patient outcomes. We explore architectural innovations, transfer learning techniques, and attention mechanisms to further improve the denoising performance. The proposed model demonstrates promising results in terms of noise reduction and preservation of important clinical information. The study also discusses potential applications of real-time denoising and emphasizes the ongoing efforts to address challenges related to model explainability and interpretability. Overall, our deep CNN-based chest X-ray denoising approach signifies a significant advancement in medical imaging technology, with the potential to revolutionize clinical decision-making and patient care.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011975 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : ROBUST VIDEO WATERMARKING FOR SECURITY ENHANCEMENT

(51) International classification	:G06T0001000000, H04N0019630000, H04N0007167000, B25H0003020000, H01L0023310000
(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 :
In recent years, technology is not the rocket science, but it cut both ways in terms of fast transmission and manipulation. Manipulation of data raises online data vulnerability and copyright issues. Digital watermarking comes out as one of the best solutions to deal with these issues.The conventional video water markings chemesareutilizing the stationary wavelet transformation. But the seme thod sareresulted in poor robustness and accuracy. Thus, this project is focused on implementation of discrete wavelet transformation with singular valued decomposition for implementing the advanced video watermarking system. This project will be implemented in MATLABR2016 as of tware with digital video processing toolbox.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.202441011976 A

(22) Date of filing of Application :21/02/2024

(43) Publication Date : 08/03/2024

(54) Title of the invention : INNOVATIVE RFID FASTAG DESIGN FOR ENHANCED SECURITY AND FRAUD PREVENTION

(51) International classification : G07B0015060000, G06K0007100000, G06Q0020340000, G06K0019070000, G06Q0020200000	(71)**Name of Applicant :**
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(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	

(57) Abstract :

The major problem faced today is the traffic congestion. Due to the increase in the growth of vehicles, the toll booth becomes bottle neck while vehicles pass through the toll gate due to their manual operations. Since the manual operations can be slow, the automated toll collection system is very successful right now. Fastag is a simple, reloadable tag which allows for faster and automatic deduction of toll charges. This tag is fixed on the vehicles wind screen and works on the Radio Frequency Identification(RFID) technology. Since each RFID tag is unique, it represents unique identification number for the vehicle. RFID reader can detector sense the RFID tags and send the information to the controller(Arduino). Sensed information can be looked into the database for getting the balance in the owner's prepaid account and then the toll tax can be automatically deducted. This system not only deals with toll payments, but also verifies the driving license of person who is driving the vehicle and allows only the authorized person by using Security card. If he is not authorized then we will get indication through alarm.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011977 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : SECURE COLOR: DEEP LEARNING-BASED ENCRYPTION FOR COLOR IMAGES

(51) International classification :H04L0009320000, H04L0009060000, H04L0009000000, G06F0021600000, G06T0001000000	(71)**Name of Applicant :**
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(87) International Publication No : NA	
(61) Patent of Addition to Application Number :NA Filing Date :NA	2)**Kishorekumar M** Address of Applicant :Karpagam College Of Engineering, Coimbatore , Myleripalayam Village, Othakkal Mandapam Post, Coimbatore - 641032, Tamilnadu, India ----------- ----------- 3)**N.Sowmya** Address of Applicant :St. Martin's Engineering College, Dhulapally, Kompally, Secunderabad Telangana, India-500100. ----------- -----------
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(57) Abstract :
The digital era communication is largely based on the exchange of digital information on data networks. Communication is often pictured as a sender that transmits a digital file to a receiver. This file travels from a source to a destination and, to have a quick and immediate communication, we need an encoding strategy that should be efficient and easy yet secure. In order to protect valuable data from undesirable readers or against illegal reproduction and modifications, there have been various data encryption techniques. Many methods are developed to perform image encryption. Image encryption is used to protect the images and transform into different format. In this paper, lossless encryption for colour images using binary key images has been proposed. In proposed method, the key image size is same as the original image. The key image is either a bit plane or an edge map generated from another image. The method is discussed against common attacks such as the plaintext attacks, brute force attack and cipher text attacks. The experimental results shows that the lossless encryption of all types of images.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011978 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : TEMPORAL-SPATIAL VIDEO ENHANCEMENT WITH ALTERNATING EXPOSURES: A PATENTED INNOVATION.

(51) International classification :G06T0005000000, H04B0007185000, G06T0005200000, H04N0021472000, H04N0019186000	(71)Name of Applicant :
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(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	

(57) Abstract :
Video processing is the major field of applications in the field of satellite communications and mobile communications. But, due to the noise present in the channel, the transmitted videos are corrupting. Further, the conventional methods are using the basic mean and median filters to remove the noise from the videos, but they are failed to remove the noise effectively. Thus, this work is focusing on the implementation of advanced spatial filtering methods to remove all types of noise. Further, the proposed method also enhances the visible quality of the video, respectively. In our project, we are going to use a spatial domain where the techniques are based on direct manipulation of pixels. The spatial domain methods perform operations on pixels directly image pixels are transformed from pixel to pixel increasing the intensity and features of a video frame. It is the easiest (simplest) way to enhance an image/video. This work will be implemented using MATLAB R 2021a a software using image processing and video processing toolboxes.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011979 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : INTELLIGENT FAULT DIAGNOSIS FOR PLANETARY GEARBOXES USING CNN.

(51) International classification	:G06T0005000000, G06T0003400000, H04B0007185000, G06T0005500000, G06T0007000000
(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 :
Satellite Images, enhancement plays a dynamic research topic in image processing. The aim of enhancement is to process an image so that the result is more suitable than original image for specific remote sensing application. Satellite image enhancement techniques provide a lot of choices for improving the visual quality of remotely sensed images. The satellite image enhancement is the process of adjusting digital images so that the results are more suitable for display or further image analysis. The Bilinear and Bicubic interpolation is the existing method used to improve the quality of image. The drawbacks of Bilinear and Bicubic interpolation are visibility, haze white fog, low light, noises, error and atmospheric conditions. The methods that we use in our project are Discrete Wavelet Transform (DWT), Stationary Wavelet Transform (SWT) and interpolation algorithm. The advantages of DWT and interpolation algorithm are perfect visibility enhancement, low noises, errors and improved PSNR and less MSE. The image enhancement is used in satellite, mobile communications and in ISRO and NASA. The MATLAB software is used for execution of the program

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011980 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : PROGRAMMABLE TURBO ENCODER MODULE FOR IN-VEHICLE SYSTEMS (IVS): INNOVATIVE CHIP DESIGN

(51) International classification : H03M0013290000, H04L0001000000, H03M0013270000, H03M0013110000, H04L0009060000

(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 :
It has less error correction capability, high power requirement and high resource utilization for IVS modem. Turbo coders have higher error correction coders when compared with existing correction coders. Turbo coder provides high security, low error rates, high speed data communication support and less hardware resources utilization. In this work turbo encoder module for in-vehicle system has been proposed. Hamming encoder and decoder are previously used for communication in IVS modem. The Turbo encoder module is designed and simulated using Xilinx ISE 14.2 software and Verilog program is implemented.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011981 A

(43) Publication Date : 08/03/2024

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(54) Title of the invention : SMART RAIL GUARD: AN INTELLIGENT RAILWAY GATE CONTROL SYSTEM

(51) International classification : G01S0013931000, H01L0029423000, G05D0001020000, B61L0029300000, B61L0025020000

(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 :
The main aim of our system is to operate and control the unmanned Railway Gate in the proper manner in order to avoid the accidents in the unmanned railway crossing. In a country like ours where there are many unmanned railway crossings, Accidents are increasing day by day. The railway gate can be operated to prevent the accidents at the level crossing. This system uses ATmega328P microcontroller with the help of obstacle sensors. It has two obstacle sensors which is used to detect arrival and departure of the train. Obstacle sensors are the input components while buzzer, DC Servo motor and LCD display are the output components. The microcontroller forms the main unit of the system. It receives input signal from the sensors and sends information to the gate motor driver for opening and closing the gate. Besides, the output signal microcontroller will activate the alarm. The first obstacle sensor is fixed at a certain distance from the gate and the second sensor is fixed at the same certain distance after the gate. The gate is closed, when the train crosses the first and the gate is opened, when the train crosses the second obstacle sensor. This system deals about one of the efficient methods to avoid the train accidents.

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : BRIDGE BETWEEN INVESTORS AND FARMERS USING ADVANCED CENTRALIZED SYSTEM

(51) International classification :H04W0004380000, G06Q0050020000, A01F0025140000, A01F0025220000, A01B0076000000	(71)**Name of Applicant :**
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(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	

(57) Abstract :

The mergers of some of the world's largest agribusinesses have led to speculation about what sort of global citizens the new companies will become and whether vulnerable rural populations, especially smallholder men and women farmers, will be negatively impacted. As innovation leaders in the agriculture industry, these new companies will be expected to play key roles in finding solutions for major agricultural challenges facing the world today. The private sector has a unique voice and responsibility to help bridge the innovation gap and ensure that good science reaches those countries where public investment in agricultural research is a low priority. In this paper, we review the obstacles facing agriculture over the next few decades, the role of agricultural innovation in overcoming those obstacles, and the need for greater public funding for agricultural research. We discuss how science-based solutions that drive revenue for industry can also advance agriculture in developing economies. Expediting agricultural innovation as well as increasing access to those benefits requires a different way of thinking about the sharing of technology to improve the lives of smallholder farmers and create a more equitable playing field for women in agriculture.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011983 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : EFFICIENT CBCIR USING DWT AND GLCM: A PATENTED IMAGE RETRIEVAL METHOD

(51) International classification	:H04N0019124000, H04N0019136000, H04N0019180000, H04N0019176000, H04N0019120000
(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 :
This article presents a novel hardware-oriented image compression algorithm and its very large-scale integration (VLSI) implementation for wireless sensor networks. The proposed novel image compression algorithm consists of a fuzzy decision, block partition, digital halftoning, and block truncation coding (BTC) techniques. This article presents a hardware-oriented lossless Color Filter Array (CFA) image compression algorithm for Very Large-Scale Integration (VLSI) circuit design. In order to achieve high performance, low complexity and low memory requirement, a novel lossless CFA image compression algorithm based on JPEG-LS is proposed for VLSI implementation. A previous study showed the usage of a context table with its memory consuming more than 81% of the chip area for a JPEG-LS encoder design. The proposed algorithm implements a JPEG-LS based lossless image compression algorithm that eliminates the use of the context technique and its memory in order to reduce the chip area while still maintaining its high performance. The proposed algorithm includes a pixel restoration, an adaptive Golomb-Rice parameter prediction and an improved Golomb-Rice coding technique.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441011984 A

(19) INDIA

(22) Date of filing of Application :21/02/2024

(43) Publication Date : 08/03/2024

(54) Title of the invention : COMPUTE-IN-MEMORY DEPLOYMENT ON FPGAS FOR DEEP LEARNING ACCELERATION

(51) International classification :G11C0008160000, G11C0011412000, G11C0007100000, G06F0013160000, H01L0027110000	(71)**Name of Applicant :**
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(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	

(57) Abstract :
Dual port memory cell is the multiport memory cell that provides required access to multi-processor applications. It uses two additional pass transistors, bit line pair and a word line to provide much needed simultaneous access. Each SRAM cell is accessed by dual ports with devoted word and bit lines to each. Single port SRAM allows access to only single address of a memory cell at a time during each clock pulse but dual port overcomes this drawback and allows concurrent read or write access at different addresses. Thus the efficiency is almost doubled by using dual port RAM. The most important benefit of dual port RAM is that they will not have limitations of access between the two ports, as each processor can be made to operate at different clock frequencies.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011985 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : SECURE FILE STORAGE SYSTEM ON CLOUD USING CRYPTOGRAPHY

(51) International classification	:H04L0009060000, G06F0021620000, H04L0009080000, G06F0021600000, H04L0009320000
(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 :
Cloud is used in various fields like industry, military, college, etc. for various services and storage of huge amount of data. Data stored in this cloud can be accessed or retrieved on the users request without direct access to the server computer. But the major concern regarding storage of data online that is on the cloud is the Security. This Security concern can be solved using various ways, the most commonly used techniques are cryptography and steganography. But sometimes a single technique or algorithm alone cannot provide high-level security. So we have introduces a new security mechanism that uses a combination of multiple cryptographic algorithms of symmetric key and steganography. In this proposed system 3DES (Triple Data Encryption Standard) and AES (Advanced Encryption Standard) algorithms are used to provide security to data. All the algorithms use 128-bit keys. LSB steganography technique is used to securely store the key information. Key information will contain the information regarding the encrypted part of the file, the algorithm and the key for the algorithm. File during encryption is split into three parts. These individual parts of the file will be encrypted using different encryption algorithm simultaneously with the help of multithreading technique. The key information is inserted into an image using the LSB technique. Our methodology guarantees better security and protection of customer data by storing encrypted data on a single cloud server, using AES, DES and RC6 algorithm.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011986 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : ADVANCED MODEL FOR PREDICTION OF EMERGENCY PATIENT ADMISSION BASED ON DATA MINING

(51) International classification	:G16H0040200000, G06N0020000000, G16H0050200000, G16H0050300000, G16H0010600000
(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 :
Crowding within emergency departments (EDs) can have significant negative consequences for patients. EDs therefore need to explore the use of innovative methods to improve patient flow and prevent overcrowding. One potential method is the use of data mining using machine learning techniques to predict ED admissions. This patent uses routinely collected administrative data from two hospitals to compare contrasting machine learning algorithms in predicting the risk of admission from the ED. We use three algorithms to build the predictive models: 1) logistic regression; 2) decision trees; and 3) gradient boosted machines (GBM). The GBM performed better than the decision tree and the logistic regression model. Drawing on logistic regression, we identify several factors related to hospital admissions, including hospital site, age, arrival mode, triage category, care group, previous admission in the past month, and previous admission in the past year. This invention highlights the potential utility of three common machine learning algorithms in predicting patient admissions. Practical implementation of the models developed in this invention in decision support tools would provide a snapshot of predicted admissions from the ED at a given time, allowing for advance resource planning and the avoidance bottlenecks in patient flow, as well as comparison of predicted and actual admission rates. When interpretability is a key consideration, EDs should consider adopting logistic regression models, although GBM's will be useful where accuracy is paramount.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011987 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : REAL TIME SECURE TEXT TRANSMISSION USING VIDEO

(51) International classification	:H04N0019176000, H04N0021234700, H04N0019460000, G06T0005000000, G06T0007200000
(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 :
Image and video are the two most basic forms of transmitting information. With the help of Image and video encryption methods any particular set of images or videos can be transmitted without worrying about security. In this invention a very simple and real time algorithm, using pixel mapping, is used for the encryption of the images which are the basic building blocks of any video ?le. The video is distributed into the photo frames using a MATLAB code and all the frames are sequentially stored. Each such frame contains a combination of red, blue and green layers. If we consider a pixel as an 8-bit value than each pixel has the value in the range of 0 to 255. In each frame the text image will be inserted using the LSB approach. After the completion of the pixel value changing all the images is placed in a sequential manner and then all the frames are cascaded for generation of the original video ?le with encryption. This new video is almost similar to the original video ?le with no changes visible to the naked eye.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011988 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : ROBUST INFRASTRUCTURE FOR HAZARD MONITORING IN UNDERGROUND MINES USING IOT

(51) International classification	:E21F0017180000, E21F0005100000, E21B0047000000, G16H0040630000, E21F0011000000
(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 :
In this project, a coal mine safety system is implemented using a Thingspeak medium to transmit the data. The system is implemented to monitor and control various parameters in the coal mines such as light detection, leakage of gas, temperature and humidity conditions, Fire detection in the coal mine. These all sensors are together considered as one unit and are placed in the coal mines. All the esteems of the sensors are continuously uploaded to the Thingspeak for analysis. Here the gas is continuously monitored if any uncertainties in the level of gas arise, then buzzer is used to alert the workers. In case if any fire occurs in the coal mine, then an alert sound is made. Temperature and humidity values are also continuously monitored and displayed on the serial monitor and also in the Thingspeak platform. The developed system is mainly implemented to improve the working condition inside the coal mines and also to ensure workers safety.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011989 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : DETECTION OF CYBER BULLYING ON SOCIAL MEDIA USING MACHINE LEARNING

(51) International classification	:H04L0051000000, G06Q0050000000, H04L0067500000, H04L0067025000, G06Q0010100000
(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 :
Social media is a platform where Cyber-Bullying is wide -spread. The proposed problem is an implementation of detection of cyber-bullying on social networking sources such as Twitter, YouTube etc. Because of the burning consequences of internet bullying, the computer science field is involved in detection of cyber-bullying through text and Social Analysis. However, the public suffering has only increased and the ramifications are less. In order to prove and perceive the accuracy, hence using Sentimental Analysis and to recognize the analysis, Big Data Analytics will be utilized. Process: from twitter/ you tube we collect the tweets and retweets, comments with timestamp. We prepare all the data collection with attributes such as user ID user name, time space or login time, comments etc. Real time data need to be collected minimum 8k. Later apply the algorithms (Ada boost, SGD, Multi nominal NB). Output should be a graph telling precision values and fi score best algorithm among all. Develop it into a webpage with HTML and CSS. The page should be with welcome to cyberbullying detection. About the process login page and result with feedback form for user Contact info. Solution should be alert message and block system for admin.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011990 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : A NOVEL APPROACH FOR STOCK MARKET PRICE PREDICTION USING MACHINE LEARNING ALGORITHM

(51) International classification	:G06Q0040040000, G06Q0040060000, G06K0009620000, G06Q0010040000, 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 :
Accurate stock market prediction is of great interest to investors; however, stock markets are driven by volatile factors such as micro blogs and news that make it hard to predict stock market indexes based on merely the historical data. The enormous stock market volatility emphasizes the need to effectively access the role of external factors in stock prediction. Stock market can be predicted using machine learning algorithms on information contained in social media and financial news, as this data can change investors' behavior. In this invention, we use algorithms on social media and financial news data to discover the impact of this data on stock market prediction accuracy for ten subsequent days .For improving performance and quality of predictions, feature selection and spam tweets reductions are performed on the data sets. Our experimental result show that highest prediction accuracies of 80.53% and 75.16% are achieved using social media and financial news, respectively. Support Vector Machine is a machine learning technique used to forecast stock prices. This study uses daily closing prices for 34 technology stocks to calculate price volatility and momentum for individual stocks and for the overall sector. These are used as parameters to the SVM model. The model attempts to predict whether a stock price sometime in the future will be higher or lower than it is on a given day. We find little predictive ability in the short-run but definite predictive ability in the long-run.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011991 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : SMARTAGENT: A CUSTOMER SERVICE CHATBOT FOR E-COMMERCE SERVICES

(51) International classification	:H04L0051020000, G06Q0030020000, G06Q0030060000, H04M0003510000, G06Q0030000000
(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 :
This Invention introduces a chatbot for selling physical goods and also services. This Chatbot is applicable to direct and indirect Marketing. It is designed and implemented for telegram and uses it's API, but can be implemented on any messaging platform with an API such as Facebook messenger. Today's E-Commerce websites contains a wide range of products in each of its category which results in vast and complex database .A user visiting an E- Commerce websites may look for a specific product or generally browse in website . In this business environment, it is extremely important to respond to the client immediately. Chatbot can be used as an "assistant" to a live agent. It presents a new way for individuals to interact with computer systems; A Chatbot allows a user to simply ask questions in the same manner that they would address a human. A simple chatbot can be created by loading an FAQ [Frequently Asked Questions] into chatbot software. The main goal of this purposed design is to make conversation faster. The customer's purchases and information can be used to generate specific target audiences to send deals and promotions.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011993 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : INNOVATIONS IN ONLINE TRANSACTION AND FRAUD DETECTION USING BACKLOGGING ON ECOMMERCE

(51) International classification : G06Q0020400000, G06Q0030000000, G06K0009620000, G06N0005000000, G06Q0030060000	(71)**Name of Applicant :**
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(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Fraud is one of the major moral issues in the credit card industry. Credit card fraud detection is presently the most frequently occurring problem in the present world. This is due to rise both online transactions and e-commerce platforms. The fundamental points are, right off the bat, to distinguish the distinctive kinds of Credit card smart, and, furthermore, to survey elective strategies that have been utilized in fraud recognition. It is critical that credit card companies are able to recognize fraudulent credit card transactions so that customers are not charged for items that they did not purchase. Crédit card fraud generally happens when the card was stolen for any of the unauthorized purposes or even when the fraudster uses the credit card information for his use. To detect the fraudulent activities the credit card fraud detection system was introduced. This invention aims to focus on machine learning algorithms. The algorithms used are Random Forest algorithm, Local Outlier Factor, K nearest neighbor means and decision tree. The datasets contain exchanges made by charge cards in September 2013 by European cardholders. This dataset presents exchanges that happened in two days, where we have 492 frauds out of 284,807 exchanges. The results of the two algorithms are based on accuracy, precision, recall and F1 score. The algorithms are compared and the algorithm that has the greatest accuracy, precision, recall and F1 score is considered as the best algorithm that is used to detect the fraud.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011994 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : A SMART SYSTEM FOR DRUG DISEASE PREDICTION USING GRADIENT BOOSTING TECHNIQUE

(51) International classification : G16H0010200000, G06N0020000000, G16H0050200000, G06N0003040000, G06K0009620000

(86) International Application No : NA
     Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA
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     Filing Date : NA

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(57) Abstract :
In today's period, every person on earth relies on allopathic treatments and medicines. Machine Learning techniques can be applied to medical databases that have a vast scope of opportunity for textual as well as visual data. This invention provides an application programming interface to recommend drugs to users suffering from a particular disease which would also be diagnosed by the framework through analyzing the user's symptoms by the means of machine learning algorithms. We utilize some insightful information here related to mining procedure to figure out most precise sickness that can be related with symptoms. The patient can without much of a stretch recognize the diseases. The patients can undoubtedly recognize the disease by simply ascribing their issues and the application interface produces what malady the user might be tainted with. The framework will demonstrate complaisant in critical situations where the patient can't achieve a doctor's facility or when there are situations, when professionals are accessible in the territory. Predictive analysis would be performed on the disease that would result in recommending drugs to the user by taking into account various features in the database. The experimental results can also be used in further research work and for healthcare tools.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441011995 A

(19) INDIA

(22) Date of filing of Application :21/02/2024

(43) Publication Date : 08/03/2024

(54) Title of the invention : A NEW LEARNING APPROACH TO MALWARE CLASSIFICATION USING DISCRIMINATIVE FEATURE EXTRACTION

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(51) International classification : G06F0021560000, G06F0021550000, G06F0021530000, H01L0023000000, G06F0016260000

(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

(57) Abstract :
Malware basically means malicious software that can be an intrusive program code or anything that is designed to perform malicious operations on system and executes malicious actions such as clandestine, listening, monitoring, saving, and deleting without the user's knowledge and consent. Malware review and analysis requires an advanced level of programming knowledge, in-depth file systems knowledge, deep code inspection, and reverse engineering capability. New techniques are needed to reduce indirect costs of malware analysis. This invention aims to provide insights into the malware visualization techniques and its applications, most common malware types and the extracted features that used to identify the malware are demonstrated in this study. In this work, Systematic Literature Review (SLR) conducted to investigate the current state of knowledge about Malware detection techniques, data visualization and malware features. An advanced research has been carried out in most relevant digital libraries for potential published articles. 90 preliminary studies (PS) were determined on the basis of inclusion and exclusion criteria. The analytical study is based mainly on the PSs to achieve the goals. The results clarify the importance of visualization techniques and which are the most common malware as well as the most useful features. Several ways to visualize malware to help malware analysts have been suggested.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011996 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : NOVEL SYSTEM FOR CONSTRUCTION SITE ACCIDENT ANALYSIS USING TEXT MINING AND NLP TECHNIQUES

(51) International classification :G06K0009620000, G06Q0040020000, G06Q0040080000, G06N0020200000, G06Q0010040000	(71)**Name of Applicant :**
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(57) Abstract :
Workplace safety is a major concern in many countries. Among various industries, construction sector is identified as the most hazardous workplace. Construction accidents not only cause human sufferings but also result in huge financial loss. To prevent reoccurrence of similar accidents in the future and make scientific risk control plans, analysis of accidents is essential. In construction industry, fatality and catastrophe investigation summary reports are available for the past accidents. In this study, text mining and natural language process (NLP) techniques are applied to analyse the construction accident reports. To be more specific, five baseline models, support vector machine (SVM), linear regression (LR), K-nearest neighbour (KNN), decision tree (DT), Naive Bayes (NB) and an ensemble model are proposed to classify the causes of the accidents. Besides, Sequential Quadratic Programming (SQP) algorithm is utilized to optimize weight of each classifier involved in the ensemble model. Experiment results show that the optimized ensemble model outperforms rest models considered in this study in terms of average weighted F1 score. The result also shows that the proposed approach is more robust to cases of low support.

No. of Pages : 9 No. of Claims : 5

(54) Title of the invention : ADVANCED FILTERING SYSTEM FOR INSTAGRAM HASHTAGS THROUGH CROWDTAGGING AND HITS ALGORITHM

(51) International classification	:G06K0007100000, H04L0009060000, G06F0016583000, G06F0016783000, G06Q0050000000
(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 :
In this proposed work we discuss about analyzing or filtering Instagram hashtags given by crowds to detect whether hash tag is correct or not which is given by crowds. To identify correctness of tags we are using HITS algorithm. Now-a-days online social network users are posting messages with related pictures and the hash tags will be assigning to that picture. This related hash tags make other users to search that image easily. Sometime some user's assigns unrelated hash tags to images which make searching process difficult. To overcome from this issue author has introduce hash tags filtering technique using which we will filter hash tags to determine whether hash tag is relevant or irrelevant by matching content of both main hash tag and the annotator hash tags.Using HITS algorithm we can determine whether that hash tags is used more frequently or not, if it's less frequent or unrelated hash tag then we will consider as stop hash tag.

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : PREDICT YOUR CUSTOMER THROUGH CUSTOMER BEHAVIOUR USING CHURN PREDICTION USING MACHINE LEARNING

(51) International classification	:G06Q0030020000, G06Q0010060000, G06Q0050000000, G06Q0010040000, G16B0030000000
(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-Customer Churn (CC) is a major issue and important concerns for large organizations and businesses alike. Telecom industries are attempting to improve methods to predict possible customer churn due to the immediate impact on revenue, particularly in the telecom sector. This paper discusses the various ML algorithms used to construct the churn model that helps telecom operators to predict customers who are likely to churn. The experimental results are compared to predict the best model among various techniques. As a result, the use of the Random Forest combined with SMOTE-ENN outperforms best result than other in terms of F1-score. According to our analysis, the maximum prediction is 95 percent based on F1-score. The target of CC prediction technique is to retain customers at the highest risk of churn by proactively engaging with them by different methods like customers can be stick to the particular company.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441011999 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : AN AUTOMATIC SYSTEM FOR BRAIN TUMOUR DETECTION USING DEEP LEARNING TECHNIQUES

(51) International classification :G06N0003040000, G06N0003080000, G06T0007110000, G06T0007000000, G06K0009620000

(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 :
Automated segmentation of brain tumor from multi-modal MRI images is pivotal for the analysis and monitoring of disease progression. As gliomas are malignant and heterogeneous, efficient and accurate segmentation techniques are used for the successful delineation of tumor's into intro-tumoral classes. Deep learning algorithms outperform on tasks of semantic segmentation as opposed to the more conventional, context-based computer vision approaches. Extensively used for biomedical image segmentation, Convolutional Neural Networks have significantly improved the state-of-the- art accuracy on the task of brain tumor segmentation. In this invention, we propose an ensemble of two segmentation networks: a 3D CNN and a U-Net, in a significant yet straightforward combinative technique that results in better and accurate predictions. Both models were trained separately on the BraTS-19 challenge dataset and evaluated to yield segmentation maps which considerably differed from each other in terms of segmented tumor sub-regions and were ensembled variably to achieve the final prediction. The suggested ensemble achieved dice scores of 0.750, 0.906 and 0.846 for enhancing tumor, whole tumor, and tumor core, respectively, on the validation set, performing favorably in comparison to the state-of-the-art architectures currently available.

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : LOCATION OF TWEET PREDICTION USING MACHINE LEARNING TECHNIQUES

(51) International classification : G06N0020000000, G06N0003080000, G06Q0040000000, G06N0003040000, G06N0005000000	(71)Name of Applicant : 1)Sridhar K Address of Applicant :Vaageswari College of Engineering, Thimmapur, Karimnagar,Telangana, 505481 ----------- ----------- 2)Dr. Rakhi Chawla 3)Priyanka Dash 4)Dr. B Laxmi Kantha 5)G Sathish 6)M Harikumar 7)V. Chandraprakash 8)G Balakrishnan Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Sridhar K Address of Applicant :Vaageswari College of Engineering, Thimmapur, Karimnagar,Telangana, 505481 ----------- ----------- 2)Dr. Rakhi Chawla Address of Applicant :New Delhi Institute of Management, M B Road, Behind Batra Hospital, Tughlakabad, Institutional Area New Delhi, 110062 ----------- ---------- 3)Priyanka Dash Address of Applicant :Godavari Institute Of Engineering And Technology, Chaitanya Knowledge City, Rajamahendravaram, Andhra Pradesh, 533296 ----------- ----------- 4)Dr. B Laxmi Kantha Address of Applicant :St. Martin,s Engineering College, Dulapally, Kompally, Secunderabad, Telangana, 500014 ----------- ----------- 5)G Sathish Address of Applicant :St. Martin,s Engineering College, Dulapally, Kompally, Secunderabad, Telangana, 500014 ----------- ----------- 6)M Harikumar Address of Applicant :St. Martin,s Engineering College, Dulapally, Kompally, Secunderabad, Telangana, 500014 ----------- ----------- 7)V. Chandraprakash Address of Applicant :St. Martin,s Engineering College, Dulapally, Kompally, Secunderabad, Telangana, 500014 ----------- ----------- 8)G Balakrishnan Address of Applicant :Fatima Michael College of Engineering and Technology, Madurai sivagangai, Madurai, Tamil Nadu, 625020 ----------- -----------
(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	

(57) Abstract :
In this patent shows an approach for detecting fake statements made by public figures by means of artificial intelligence. The progress in modern informational technologies brings us to the era where information is as accessible as ever. The news information that we get is not always true. Paradoxically, the Internet makes it harder to fact-check the available information because there are too many sources that often even contradict each other. The rise of deep learning and other artificial intelligence techniques showed us that they can be very effective in solving complex, sometimes even non-formal classification tasks. We aim to perform binary classification of various news articles available online with the help of concepts pertaining to Artificial Intelligence, Natural Language Processing and Machine Learning. We aim to provide the user with the ability to classify the news as fake or real.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012001 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : ANALYSIS OF WOMEN SAFETY IN INDIAN CITIES USING TWEEPY AND TEXTBLOB ON TWEETS

(51) International classification : G06Q0050000000, G06Q0030020000, G06N0020000000, G06F0003010000, H04L0051046000	(71)**Name of Applicant :** 1)**M . INDRANI** Address of Applicant :ACE ENGINEERING COLLEGE, Ankushapur, Ghatkesar, Telangana 501301 ----------- ----------- 2)**Dr. GHIAZALA RAIYAZ HASHMI** 3)**Dr. RENUKA L. ROY** 4)**S. BAVANKUMAR** 5)**Dr.V.UMAMAHESWARI** 6)**BURA VENKATESH** 7)**Dr. B. MADHAV RAO** 8)**Dr. DORESWAMY H S** **Name of Applicant : NA** **Address of Applicant : NA** (72)**Name of Inventor :** 1)**M . INDRANI** Address of Applicant :ACE ENGINEERING COLLEGE, Ankushapur, Ghatkesar, Telangana 501301 ----------- ----------- 2)**Dr. GHIAZALA RAIYAZ HASHMI** Address of Applicant :Seth Kesarimal Porwal College, near Dragon's palace, Gautam Colony, Kamptee, Maharashtra 441001 ----------- ----------- 3)**Dr. RENUKA L. ROY** Address of Applicant :Seth Kesarimal Porwal College, near Dragon's palace, Gautam Colony, Kamptee, Maharashtra 441001 ----------- ----------- 4)**S. BAVANKUMAR** Address of Applicant :St.Martin's Engineering College, Sy. No.98 & 100, Dhulapally Road,, Dhulapally, Near Kompally, Medchal–Malkajgiri district, Secunderabad-500 100, Telangana, India ----------- ----------- 5)**Dr.V.UMAMAHESWARI** Address of Applicant :A.D.M.College for Women (Autonomous), Nagapattinam. 611 001 ----------- ----------- 6)**BURA VENKATESH** Address of Applicant :Malla Reddy College of Engineering, Maisammaguda, Dhulapally, post via Kompally, Secunderabad - 500100 ----------- ----------- 7)**Dr. B. MADHAV RAO** Address of Applicant :St.Martin's Engineering College, Sy. No.98 & 100, Dhulapally Road,, Dhulapally, Near Kompally, Medchal–Malkajgiri district, Secunderabad-500 100, Telangana, India ----------- ----------- 8)**Dr. DORESWAMY H S** Address of Applicant :East Point College of Engineering & Technology, Jnana Prabha, East Point Campus, Virgo Nagar Post, Avalahalli, Bengaluru, Karnataka 560049. ----------- -----------
(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	

(57) Abstract :
This invention mainly concentrates on the implementation of Women Safety in Indian Cities. This invention basically focuses on the role of social media in promoting the safety of women in Indian cities with special reference to the role of social media websites and applications including Twitter platform Facebook and Instagram Programming language used is python. Women and girls have been experiencing a lot of violence and harassment in public places in various cities starting from stalking and leading to sexual harassment or sexual assault. This invention basically focuses on the role of social media in promoting the safety of women in Indian cities with special reference to the role of social media websites and applications including Twitter platform Facebook and Instagram. This patent also focuses on how a sense of responsibility on part of Indian society can be developed the common Indian people so that we should focus on the safety of women surrounding them. Tweets on Twitter which usually contains images and text and also written messages and quotes which focus on the safety of women in Indian cities can be used to read a message amongst the Indian Youth Culture and educate people to take strict action and punish those who harass the women. On the twitter, users will share their opinions and perspective in the tweets section. From the tweet, the sentiment behind the message is extracted. This extraction is done by using Sentimental analysis procedure. For the twitter data that includes millions of tweet and messages every day, machine learning algorithm helps to perform analysis. SPC algorithm, linear algebraic are some of the algorithms which are effective in analyzing the large data and convert into meaningful datasets.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012002 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : FAKE STATEMENTS MADE BY PUBLIC FIGURES BY MEANS OF ARTIFICIAL INTELLIGENT PRE TRAINED MODEL

(51) International classification	:G06N0020000000, G06N0003080000, G06N0003040000, G06Q0040000000, G06N0005000000
(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 :
In this patent shows an approach for detecting fake statements made by public figures by means of artificial intelligence. The progress in modern informational technologies brings us to theerawhereinformationisasaccessibleasever.Thenewsinformationthatwegetisnotalways true. Paradoxically, the Internet makes it harder to fact-check the available information because there are too many sources that often even contradict each other. The rise of deep learning and other artificial intelligence techniques showed us that they can be very effective in solving complex, sometimes even non-formal classification tasks. We aim to perform binary classification of various news articles available online with the help of concepts pertaining to Artificial Intelligence, Natural Language Processing and Machine Learning. We aim to provide the user with the ability to classify the news as fake or real.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012013 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : MACHINE LEARNING BASED EMPLOYEE EMOTION DETECTION SYSTEM

(51) International classification	:A61B0005160000, G10L0017260000, G09B0019000000, G06Q0010060000, A61M0021000000
(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 :

The main motive of our project is to detect stress in the IT professionals using vivid Machine learning and Image processing techniques. Our system is an upgraded version of the old stress detection systems which excluded the live detection and the personal counseling but this system comprises of live detection and periodic analysis of employees and detecting physical as well as mental stress levels in his/her by providing them with proper remedies for managing stress by providing survey form periodically. Our system mainly focuses on managing stress and making the working environment healthy and spontaneous for the employees and to get the best out of them during working hours. Positive emotions of all employees are always leading to the organization's success since emotions directly influence several parameters in the situations. Visible changes in a person's behavior are represented by Behavioral effects of stress. Effects of behavioral stress are seen such as increased accidents, use of drugs or alcohol, laughter out of context, outlandish or argumentative behavior, very excitable moods, and/or eating or drinking to excess.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.202441012014 A

(22) Date of filing of Application :21/02/2024

(43) Publication Date : 08/03/2024

(54) Title of the invention : FORECAST ANALYSIS OF INDIAN STOCK MARKET USING MACHINE LEARNING ALGORITHM

(51) International classification	:G06Q0040040000, G06K0009620000, G06N0020000000, G06N0003080000, G06N0020200000
(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 :
Complexity and diversity of the stock market has always attracted the researchers since ages to find out the ways to predict the future movement. However, the volatility across the globe in different stock markets makes this task more difficult. Statistical methods and modeling are effective but can't address the vast range of problems encountered in the prediction of movement of the stock market. The traditional methods used were not able to address and give solution to the complex problems prevailing in the stock market. The machine learning and artificial intelligence tools are used to solve the complex situations and problems of Big Data with ease. In this paper authors propose to use six different algorithms i.e., Generalized Linear Model, Deep Learning, Decision Tree, Random Forest, Gradient Boosted Trees and Support Vector Machine and identify model which predict near to actual. These algorithms were applied on the BSE index data from April 2015 to 31st March 2020 and the model with least relative error is identified. Amongst all the models applied, Gradient Boosted Trees is chosen to be the efficient one, as it has least relative error and standard deviation. Further Gradient Boosted Trees is used to forecast the results.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012015 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : INTELLIGENT BRAKING SYSTEM

(51) International classification	:G01S0015931000, G06G0007250000, H04L0041080000, B66F0009060000, G06F0030270000
(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 :
The design of tool which may successfully scan the environment during driving and apply brakes to avoid front collision of the vehicle. The technology of pneumatics plays a serious role within the field of automation and modern machine shops and space robots. The aim is to style and develop a sway system based intelligent electronically controlled ultrasonic sensor provided on the forepart of the vehicle detects the presence of the obstacle. The utilization of pneumatic system can be useful in automation thanks to its simplicity and easy operation. So, the aim is to design a system supporting automatic control of cars.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012016 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : A VIDEO STREAMING VEHICLE DETECTION ALGORITHM BASED ON YOLO V4

(51) International classification	:G06N0003080000, G06K0009620000, B60W0030020000, G06T0007730000, B60W0030045000
(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 :
To achieve safe driving of vehicles, it is necessary to perceive information about the vehicle's surroundings, and computer vision is one of the key technologies to solve this problem. The YOLO series and SSD, Retina Net algorithm are representative of one-stage target detection algorithms, which have high accuracy and high speed. YOLOv4 is the latest algorithm of YOLO series, which has improved the speed and accuracy of vehicle target detection than before, but there is still a distance from the real real-time in vehicle detection. This paper proposes an improved YOLOv4-based video stream vehicle target detection algorithm to solve the problem in the detection speed which is not fast enough. This paper first introduces the YOLOv4 algorithm theoretically, then proposes an algorithmic process to speed up the detection speed, and finally conducts practical road experiments. From the experimental results, the algorithm of this paper can improve the detection speed of the algorithm without losing accuracy, which can provide a basis for decision making for safe vehicle driving.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012017 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : SOCIAL CHANGES LOCATION OF DRIVER LAZINESS UTILIZING CONVOLUTIONAL NEURAL NETWORK

(51) International classification :A61B0005000000, G06N0003080000, G06N0003040000, A61B0005369000, G06K0009620000	(71)**Name of Applicant :**
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(86) International Application No :NA
    Filing Date :NA
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(87) International Publication No : NA	

(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Drowsiness detection (DD) has become a relevant area of active research in biomedical signal processing. Recently, various deep learning (DL) researches based on the EEG signals have been proposed to detect fatigue conditions. The research presented in this paper proposes an EEG classification system for DD based on DL networks. However, the proposed DD system is mainly realized into two procedures; (i) data acquisition and (ii) model analysis. For the data acquisition procedure, two key steps are considered, which are the signal collection using a wearable Emotive EPOC+ headset to record 14 channels of EEG, and the signal annotation. Furthermore, a data augmentation (DA) step has been added to the proposed system to overcome the problem of over-fitting and to improve accuracy. As regards the model analysis, a comparative study is also introduced in this paper to argue the choice of DL architecture and frameworks used in our DD system. In this sense, the proposed DD protocol makes use of a convolution neural network (CNN) architecture implemented using the Keas library. The results showed a high accuracy value (90.42%) in drowsy/awake discrimination and revealed the efficiency of the proposed DD system compared to other research works.

No. of Pages : 11 No. of Claims : 3

(54) Title of the invention : A HYBRID DEEP TRANSFER LEARNING MODEL WITH MACHINE LEARNING METHODS FOR FACE MASK DETECTION

(51) International classification :G06K0009620000, G06N0020000000, G06N0020100000, G06N0020200000, A41D0013110000 (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	(71)Name of Applicant : 1)Dr Manoj Kumar Address of Applicant :G.B. Pant Institute of Engineering and Technology, Pauri-Garhwal, Uttarakhand, 246194 ----------- ----------- 2)Praveen Emmadi 3)T. Bhargavi 4)Erra Mahesh 5)A.Sravani 6)S. Karthikraj 7)M. Harikumar 8)Dr. Srinivas Martha Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Manoj Kumar Address of Applicant :G.B. Pant Institute of Engineering and Technology, Pauri-Garhwal, Uttarakhand, 246194 ----------- ----------- 2)Praveen Emmadi Address of Applicant :Vaagdevi Engineering College, Bollikunta, Warangal, Telangana 506005 ----------- ----------- 3)T. Bhargavi Address of Applicant :St. Martin,s Engineering College, Dulapally, Kompally, Secunderabad, Telangana, 500014 ----------- ----------- 4)Erra Mahesh Address of Applicant :Bharath University Chennai, Agharam Road, Selaiyur, Chennai, Tamil Nadu, 600 073. ----------- ----------- 5)A.Sravani Address of Applicant :St. Martin,s Engineering College, Dulapally, Kompally, Secunderabad, Telangana, 500014 ----------- ----------- 6)S. Karthikraj Address of Applicant :St. Martin,s Engineering College, Dulapally, Kompally, Secunderabad, Telangana, 500014 ----------- ----------- 7)M. Harikumar Address of Applicant :St. Martin,s Engineering College, Dulapally, Kompally, Secunderabad, Telangana, 500014 ----------- ----------- 8)Dr. Srinivas Martha Address of Applicant :Vaagdevi Engineering College, Bollikunta, Warangal, Telangana 506005 ----------- -----------

(57) Abstract :
The corona virus COVID-19 pandemics causing a global health crisis. One of the effective protection methods is wearing a face mask in public areas according to the World Health Organization (WHO). In this patent, a hybrid model using deep and classical machine learning for face mask detection will be presented. The proposed model consists of two components. The first component is designed for feature extraction using Res net50. While the second component is designed for the classification process of face masks using decision trees, Support Vector Machine (SVM), and ensemble algorithm. Three face masked datasets have been selected for investigation. The three datasets are the Real- World Masked Face Dataset (RMFD), the Simulated Masked Face Dataset (SMFD), and the Labeled Faces in the Wild (LFW). The SVM classifier achieved 99.64% testing accuracy in RMFD. In SMFD, it achieved 99.49%, while in LFW, it achieved100%testing accuracy. The objective of this work is to remove mask objects in facial images. To train our model in a supervised manner, we create a paired synthetic dataset using publicly available dataset and evaluated on real world images collected from the Internet.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012019 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : MACHINE LEARNING BASED GENDER PREDICTION CLIENT PROFILES USING ONLINE SOCIAL MEDIA

(51) International classification : G06N0003040000, G06K0009620000, G06N0003080000, G06N0020000000, G06Q0050000000	(71)**Name of Applicant :**
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(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	

(57) Abstract :

This system describes content analysis of text with to identify suicidal tendencies and types. This patent also describes how to make a sentence classifier that uses a neural network created using various libraries created for machine learning in the Python programming language. Attention is paid to the problem of teenage suicide and groups of death in social networks, the search for ways to stop the propaganda of suicide among minors. Analysis of existing information about so-called «groups of death» and its distribution on the Internet. In this patent, two new features are constructed after constructing a gender-specific thesaurus. A new classification model is constructed by combining the traditional statistical features and the improved text implicitness feature. The experimental evaluation performed on the Sina, Weibo dataset demonstrated the effectiveness of gender-specific thesaurus-based features, and the improved text implicitness feature improved the accuracy of gender classification to 84.7%.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441012020 A

(19) INDIA

(22) Date of filing of Application :21/02/2024

(43) Publication Date : 08/03/2024

(54) Title of the invention : AN APPROACH TO QUANTIFY ANALYSIS ON FOOD REVIEW USING MACHINE LEARNING

(51) International classification	:G06F0040300000, H04L0067020000, G06N0020000000, G06F0040284000, G06F0016958000
(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 :
Inter personal interaction correspondence has obtained a customary standard way to deal with web. Casual correspondence insinuates the use of web-based life destinations and applications. Twitter is one of the mainstream web-based media utilized in the present-day life. Individuals share their inclination with a post in many exercises of our everyday lives. Supposition analysis has become commonly notable. Regardless, stable Twitter thought portrayal execution stays dangerous due to different issues: generous class lopsidedness in a multi-class issue, illustrative extra valance issues for feeling signs, and the usage of different ordinary semantic models. As necessities seem to be, a book examination structure is proposed for Twitter notion investigation. Estimation investigation by utilizing twitter information is well known in this recorded. Words and articulations be speak the perspectives of people about the things, organizations, governments and events through electronic systems administration media.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION   (21) Application No.202441012021 A

(19) INDIA

(22) Date of filing of Application :21/02/2024   (43) Publication Date : 08/03/2024

(54) Title of the invention : AI BASED AUTONOMOUS CAR

(51) International classification : G05D0001000000, G05D0001020000, G01C0021340000, B60W0060000000, G06K0009620000	(71)**Name of Applicant :**
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(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	

(57) Abstract :
A self-driving car, also known as an autonomous vehicle (AV or auto), driverless car, or robotic car (robot-car) is a vehicle that is capable of sensing its environment and moving safely with little or no human input. Self-driving car combines a variety of sensors to perceive their surroundings, such as camera, ultrasonic sensor and inertial measurement units. It generates the best navigation path and shows it in the given navigation map from longitudinal and latitude data received from the live GPS receiver. The passengers are updated with the help of speaking module. Advanced control systems with help of AI interpret sensory information to identify appropriate navigation paths, as well as obstacles and relevant signs to safely navigate the vehicle in real world.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012022 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : SMART E- BIKE

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(57) Abstract :
Self-power generating electrical bike is nothing but e-bike that generates its own power supply by using some arrangement of equipment and drive the bike without any external energy. This type of bike no need to any external energy just like fuel or charging of battery by externally. This is charge internally without any effect on operation of self-power generating electrical bike. an electric bike is attracting more people's attention around the world because it is one of the environmentally friendly vehicles as well as zero emissions from the vehicle. Main components of this bicycle are Dynamometer, Battery. The main use of Dynamometer is to absorb the power generated. Regenerative dynamometers, in which the prime mover drives a DC motor as a generator to create load, make excess DC power. When the bicycle starts running then the energy through chain and sprocket given to dynamometer and then to the battery which stores the energy. This stored energy is used to drive the bicycle which reduces the human efforts & increases the comfort level of human.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2024

(21) Application No.202441012023 A

(43) Publication Date : 08/03/2024

(54) Title of the invention : WIND TURBINE FOR BATTERY CHARGING

(51) International classification	:H02J0007000000, F03D0009250000, G06Q0010060000, H02K0007180000, F03D0015000000
(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 :
Development of Battery Charging from Wind Turbine focuses on harnessing wind energy to efficiently charge batteries, providing a sustainable and eco-friendly solution for electricity storage. With the global shift towards renewable energy sources, the project aims to contribute to the growing demand for clean energy solutions. The proposed system involves the integration of a wind turbine with a battery charging mechanism, allowing for the conversion of kinetic energy from wind into electrical energy. The system employs blades connected to a generator, which converts mechanical energy into electrical energy for charging batteries. The key objectives include optimizing the efficiency of the wind turbine in various weather conditions, designing a reliable battery charging mechanism, and ensuring seamless integration with existing power systems. The project also explores the scalability and adaptability of the solution for diverse applications, fostering energy independence and sustainability. Through innovative technology and thoughtful design, the project envisions a practical and environmentally conscious approach to meet the rising global energy needs.

No. of Pages : 15 No. of Claims : 6