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(54) Title of the invention : Evaluation of mechanical properties and stability of lignocellulosic briquettes

(51) International classification :B82Y0030000000, G11C0011220000, A61K0036610000, G01N0025720000, C10L0005360000
(86) International Application No :PCT//
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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 :

[07] This work was intended to characterize the mechanical, thermal, burning and stability properties of briquettes, which are produced by the technique of briquetting by hermetic batch, compared to commercial briquettes and the eucalyptus firewood. In addition, analyzes were carried out with non-destructive and destructive tests of the prepared samples of the materials cited being the first step comparing properties between distinct materials and the second, between the briquettes produced in a standardized way.

No. of Pages : 29 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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(54) Title of the invention : Design and Development of Wireless Artificial Arm

(51) International classification :B25J0015000000, B25J0009160000, B25J0009100000,
G06F0003010000, G06F0003048100
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

A robot hand is designed to imitate finger movements using the flex sensors mounted on a wearable glove. Various sensors that detect the finger movement are used. The sensor that detects the angle of the fingers has been shown to provide accurate values. Various servo motors are placed on the robotic hand in order to mimic the muscle movements depending upon the data transmitted by the flex sensors. Thus, in this project an Animatronic hand is developed using ZigBee module and Arduino UNO. As the whole body of the robot would have been expensive, we only developed a hand which will act as shadow hand. The main aim of this project is to highlight the use of wireless communication and its application by developing Robotic Hand which can be used in many fields like medical, defence, chemical industries.

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : COMPUTER VISION TECHNIQUE BASED INTELLIGENT HEADLIGHT BRIGHTNESS AUTO-ADJUSTMENT SYSTEM FOR VEHICLES' SAFE DRIVE

(51) International classification :B60Q0001140000, B60R0001080000, B60Q0001000000, G06K0009000000, B60Q0003720000
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

Majority of the road accidents are happened during night time and some proportionate of it is due to glaring of light from the opposite vehicles. This invention focuses on developing the automatic headlight brightness adjustment system with the implementation of computer vision technique. This invention comprises of the light sensor and auto illuminance unit. The auto illuminance unit further comprises computer vision controller and lighting power module. The light sensor and the headlight of the vehicle are interconnected with auto illuminance unit. The light sensor is connected in front of the vehicle under the headlamp. The light sensor is tuned as an initial stage to sense the light. The light sensor sensing the various lighting parameters such as intensity, wavelength, colour and beam strength of light. The sensor senses the light emits from the opposite vehicle and generate the equal magnitude and wavelength of the light. The sensor transfers the signal to the Computer Vision Controller. The computer vision controller generates and transfer the controlled signal to lighting power module which gives the controlled supply power to lamp for the auto adjustment of headlight. This invention ensures to avoid the glare and minimize the accident during night time.

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2022

(21) Application No.202241025669 A

(43) Publication Date : 13/05/2022

(54) Title of the invention : Brain tumor diagnosis with advance Image technology and Machine learning method and thereof

(51) International classification :G06K0009620000, G06K0009460000, G06F0016280000, A61B0001000000, H03M0007300000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The technique and system for creating a microendoscopic picture of a taxonomic organization are disclosed in the invention. The symbol for the local feature description has been retrieved from a microendoscopic picture. The differentiation dictionary of innovation is used to encode each symbol representing a local feature description. According to the invention, the dictionary comprises the link between certain sub-dictionaries of classification and punishment and the foundation of various sub-dictionaries connected to classification and punishment. According to the research, local feature description is encoded using the differentiation dictionary encoding, and tissue in a microendoscopic picture is categorized using the machine learning type grader of training.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2022

(21) Application No.202241028071 A

(43) Publication Date : 27/05/2022

(54) Title of the invention : Inverse Laplace Transformation Stability Analysis from First-Order Delay Differential Equations

(51) International classification :G06F0017130000, H03L0007081000, G06G0007400000, G06G0007380000, G06F0017100000
(86) International Application No :PCT//
Filing Date :01/01/1900
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(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 :

Abstract The focus of this work is the numerical method of first order delay differential equations having constant coefficients. First, we introduce the concept of the stability region and the stability boundaries of the first order delay differential equation to constant coefficients because stability is an essential issue in the theoretical and practical aspects of ordinary as well as delay differential equations and stability analysis of delay differential equations has been extensively investigated, although not completely developed for much more complicated cases yet. As the last step, we use the inverse Laplace transform and the Gamma function to evaluate the stability properties of the first-order linear delay differential equation with the determinant of square matrices as essential functions.

No. of Pages : 16 No. of Claims : 2

(54) Title of the invention : A MACHINE LEARNING BASED SYSTEM FOR PHYSICAL ATTACK PROTECTION FOR VLSI CHIP LEVEL HARDWARE SECURITY AND METHOD THEREOF

(51) International classification :G06N0020000000, G06F0001260000, H03K0005156000, H04L0009060000, H01L0023500000
 (86) International Application No :PCT//
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(57) Abstract :

The present invention discloses a machine learning based system for Physical Attack Protection for VLSI Chip Level Hardware Security and method thereof. The system includes, but not limited to, a plurality of crypto circuits configured with a plurality of peripheral circuits having plain and cipher texts communicatively coupled through a machine learning based digital data interface (I/F). Further, the core power supply (core VDD) voltage is configured to regulate with respect to local ground voltage (VSS) by power management circuits (PMCs), which is connected with DC-DC converters and reference voltage generators. Accompanied Drawing [FIG. 1]

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(12) PATENT APPLICATION PUBLICATION

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(21) Application No.202241035497 A

(43) Publication Date : 24/06/2022

(54) Title of the invention : PARAFFIN-SUGAR-KNO3 BASED SOLID ROCKET ENGINE TEST BENCH

(51) International classification :B64G0001400000, F03H0001000000, H01M0004860000, C06B0047000000, C06B0045100000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The need for high specific impulse, good combustion chamber temperature at moderate O/F ratio which can exhibit better performance for a solid rocket motor is desired. At the same time, low cost, highly effective and eco-friendly propellant is always desired for a sustainable ecosystem. In lieu of this, we have proposed paraffin as a better substitute within the existing fuels in the industry. To enhance the specific impulse of propellant, we have combined paraffin with sugar in similar proportionate with oxidizer i.e., potassium nitrate. It was observed that enhanced specific impulse is achieved at desired O/F ratio as discussed in the technical specifications. With the characteristics obtained from the analytical investigations, we have proposed a design of the SRM that consists of pre-combustion (Curve), post-combustion which forms the novelty components of the current SRM.

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

(54) Title of the invention : A SYSTEM FOR EMISSION RELATED TRANSACTION VALIDATION AND CAPTURE VIA BLOCKCHAIN NETWORK AND METHOD THEREOF

(51) International classification :G06Q0030060000, G06Q0020380000, H04L0009060000, G06F0017400000, H04L0009320000
 (86) International Application No :NA
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 (61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention discloses a system for emission related transaction validation and capture via Blockchain network and method thereof. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to have: an emission related transaction validation and capture consortium Blockchain architecture for emission transaction validation, comprising a plurality of interfaces—the data, network, consensus, contract, basic service, external interface, and application interfaces. Further, the data interface is provided to store various types of emission transaction data, including pollution-source emissions regulation information, secondary emission trading information, and enterprises' production behavior data.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241036027 A

(19) INDIA

(22) Date of filing of Application :23/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : AN IMAGE CLASSIFIER AND RECOMMENDATION FOR COGNITION METHOD BASED ON THE DEEP LEARNING OF NEURAL NETWORK

(51) International classification :G06K0009G20000, G06N0003040000, G06N0003080000, G06K0009000000,
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
[034] The present invention discloses an image classifier and recommendation for cognition method based on the deep learning of neural network. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to have: an artificial intelligence based the image analyser classifier and recommendation module based on degree of depth convolutional neural networks, is characterized in that, comprises a set up training sample set and the concentrated trained image of described trained sample is selected from image quality evaluation database. Further, the processing unit is configured to build degree of depth deep learning based convolutional neural networks model with degree of depth deep learning based convolutional neural networks model that further comprises the first volume lamination of the image, a first connecting successively extracts layer, and a volume Two lamination, second extracts layer, and a full articulation. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/07/2022

(21) Application No.202241037973 A

(43) Publication Date : 08/07/2022

(54) Title of the invention : Computing Fractional Differential Equations with Predictor-Corrector Methods

(51) International classification :G06F0017100000, G06Q0040060000, H01L0021670000, G06T0013200000, G01V0001300000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :

Abstract In this work, it provides a set of six novel predictor-corrector techniques for addressing FDEs of order $q = 1, 2, \dots, 6$, and Caputo's understanding, the nonlinear fractional operator is used. The method also offers a stability and error analysis of the suggested numerical method family. It also generalizes these strategies to solve FDE systems. We show the utility and efficiency of the suggested approaches by addressing various non-trivial non-linear FDEs as well as some unpredictable FDE systems. When compared to existing techniques such as FAM or NPCM, the hypothesized series of predictor-corrector methods produces good outcomes in significantly less time. The computing time is dramatically decreased, since they need only 10% of the overall time required with FAM and 20% of the total time required by NPCM. Even for very tiny values of the order of the fractional derivative operator, FBD-PCMq converges, whereas FAM and NPCM fail to converge. As a result, FBD-PCMq provides powerful tools for studying FODS.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/07/2022

(21) Application No.202211042209 A

(43) Publication Date : 29/07/2022

(54) Title of the invention : A RISK ANALYSIS AND MITIGATION WITH NESTED MACHINE LEARNING MODELS FOR EXAM REGISTRATION AND DELIVERY PROCESSES

(51) International classification :G06N0020000000, G06Q0040020000, G06N0005000000, G06N0007000000, 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

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(57) Abstract :

The present invention discloses a system for risk analysis and mitigation with nested machine learning models for exam registration and delivery processes. The system includes, but not limited to, a memory which stores instructions; one or more processing units for receiving through a resource management computation server, a notification module related to an exam delivery event; a model computation server for retrieving from an entity data store of a data store server, wherein the first entity data corresponding to the first entity and so on. Further, the processing unit is configured entities related to the exam delivery event and further instructing a model computation server, which is communicatively coupled to the resource management computation server to perform a risk assessment of one or more entities.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/07/2022

(21) Application No.202241043340 A

(43) Publication Date : 05/08/2022

(54) Title of the invention : Artificial Intelligence based Automatic Health care system to detection and prevention of all kinds of Cancer and Chronic disease at early stage using Machine Learning and Deep Learning Algorithm for Healthy Life

(51) International classification :G06Q0050220000, G06N0020000000, G06N0003080000, G16H0010600000, G16H0010200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
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(57) Abstract :
Artificial Intelligence based Automatic Health care system to detection and prevention of all kinds of Cancer and Chronic disease at early stage using Machine Learning and Deep Learning Algorithm for Healthy Life
Abstract: Artificial intelligence (AI) is everywhere: personal digital assistants answer our questions, robo-advisors trade stocks for us, and driverless cars will someday take us where we want to go. AI has penetrated our lives, and its use is exploding in biomedical research and health care—including across all dimensions of cancer research, where the potential applications for AI are vast. Artificial intelligence (AI) and related technologies are increasingly prevalent in business and society, and are beginning to be applied to healthcare. These technologies have the potential to transform many aspects of patient care, as well as administrative processes within provider, payer and pharmaceutical organisations. There are already a number of research studies suggesting that AI can perform as well as or better than humans at key healthcare tasks, such as diagnosing disease. Today, algorithms are already outperforming radiologists at spotting malignant tumours, and guiding researchers in how to construct cohorts for costly clinical trials. However, for a variety of reasons, we believe that it will be many years before AI replaces humans for broad medical process domains. In this article, we describe both the potential that AI offers to automate aspects of care and some of the barriers to rapid implementation of AI in healthcare. The complexity and rise of data in healthcare means that artificial intelligence (AI) will increasingly be applied within the field. Several types of AI are already being employed by payers and providers of care, and life sciences companies. The key categories of applications involve diagnosis and treatment recommendations, patient engagement and adherence, and administrative activities. Although there are many instances in which AI can perform healthcare tasks as well or better than humans, implementation factors will prevent large-scale automation of healthcare professional jobs for a considerable period. Ethical issues in the application of AI to healthcare are also discussed.

No. of Pages : 8 No. of Claims : 9

(54) Title of the invention : A SYSTEM FOR DETECTING BLOCKCHAIN SMS POSTING BOT BASED ON MACHINE LEARNING AND METHOD THEREOF

(51) International classification :H04L0012580000, H04L0029060000, G06N0020000000, G11B0027031000, G06F0003048500
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
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(57) Abstract :

The present invention discloses a system for detecting blockchain SMS Posting Bot based on machine learning and method thereof. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to: a means for monitoring visited domain related behavior to identify a previously unclassified SMS as a new spam SMS, wherein the monitored visited domain related behavior indicates a potentially spam domain based on one or more of the following: a domain name length of a visited domain in a blockchain network, whether a visited domain is a fast-flux domain, and whether a visited domain is a recently created domain. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/09/2022

(21) Application No.202241051642 A

(43) Publication Date : 16/09/2022

(54) Title of the invention : RECYCLING OF SEWAGE WATER WITH ARTIFICIAL INTELLIGENCE BASED DIP IRRIGATION SYSTEM

(51) International classification :A01G0025020000, A01G0025160000, A01C0023040000, F21V0033000000, E03B0001040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Due to the rapid growth of population in India ,the amount of sewage water coming out from cities has been increased drastically, which are generated from various house hold activities such as waste from bathroom and even sometimes from the industry .In India it was estimated that 23 billion litres of sewage water is generated every-day. The present invention relates to a recycling method that can be installed in every multi-stored building so that the sewage water can be filtered and can be reused for garden using an artificial intelligence based drip irrigation system. Since water scarcity is a serious problem in various cities today this method of recycling and drip irrigation can save a huge amount of clean water. This proposed invention of recycling method that can be installed in every multi-stored building so that the sewage water can be filtered and can be reused for garden using a smart drip irrigation system. The filtered and stored water is mixed with certain plant fertilizers and delivered in pipers which are connected with drippers that can supply uniform amount of water and fertilizers directly to the plant roots. The drippers are connected to sensors that can sense the dryness of ground and can actuate the dripper valve and supply water to the plants whenever required.

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.20221052607 A

(43) Publication Date : 23/09/2022

(54) Title of the invention : AN INVESTIGATION OF CONSUMERS SHIFT TOWARD E-COMMERCE AND M-COMMERCE

(51) International classification :G06Q0030060000, G06Q0020320000, G06Q0030020000, G06Q0020120000, A01G0017000000

(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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(62) Divisional to Application Number :NA
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(57) Abstract :

Online shopping for deeper experiences has grown over the years, helped by technology to compete on all fronts. This invention discusses developments that provide difficulties and possibilities for attracting the next generation of customers with quick and personalized ordering. This research examines how mobile commerce is growing in contemporary business. With more internet and mobile users, technology has created a borderless business model for customer service. The sorts of online products with the most development potential are shifting as e-commerce and m-commerce increase. This article will introduce us to these categories to show how they've evolved over the years to improve their goods' long-term performance. This article is the result of different analyses on how these industries are providing customers with diverse advantages at an unprecedented pace. 123 individuals were surveyed using a five-point interval standard questionnaire.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241057690 A

(19) INDIA

(22) Date of filing of Application :08/10/2022

(43) Publication Date : 21/10/2022

(54) Title of the invention : GREEN BIOSYNTHESIS OF ZNO NANOMATERIALS AND THEIR ANTI-BACTERIAL ACTIVITY BY USING MORINGA OLEIFERA ROOT AQUEOUS EXTRACT

(51) International classification :C30B0029160000, B01J0037000000, C01G0009020000, C23C0018160000, G01N0023200000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr. Chandra Sekhar Espenti Address of Applicant :Assistant Professor, Department of H & S, Malla Reddy College of Engineering and Technology, Maisammaguda, Dhulapally, Kompally, Medchal, Hyderabad. Telangana, India, Pincode: 500100 Hyderabad ----- ----- 2)Dr. Archana S. Patil 3)Dr. Kummara Sivaiah 4)Mr. C. Ayyanna 5)Dr. Deeparani Urolagin 6)Mr. Gadamsetty Siva Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Chandra Sekhar Espenti Address of Applicant :Assistant Professor, Department of H & S, Malla Reddy College of Engineering and Technology, Maisammaguda, Dhulapally, Kompally, Medchal, Hyderabad. Telangana, India, Pincode: 500100 Hyderabad ----- ----- 2)Dr. Archana S. Patil Address of Applicant :Assistant Professor, Department of Pharmaceutics, KLE College of Pharmacy-Belagavi, KLE Academy of Higher Education and Research, Belagavi, Karnataka, India, Pincode:590010 Belagavi ----- 3)Dr. Kummara Sivaiah Address of Applicant :Associate Professor, Department of Pharmacology, TVM College of Pharmacy, Airport road, Cantonment, Ballari, Karnataka, India, Pin code: 583104 Bellary ----- 4)Mr. C. Ayyanna Address of Applicant :Associate Professor, Department of Pharmacology, Creative Educational Society's College of Pharmacy, Chinnatekur, Kurnool, Andhra Pradesh, India, Pin code: 518218 Kurnool ----- 5)Dr. Deeparani Urolagin Address of Applicant :Professor, Department Of Pharmacology ABIPER, Bangalore, Karnataka, India, Pincode: 560064 Bangalore ----- 6)Mr. Gadamsetty Siva Kumar Address of Applicant :Assistant Manager, Department of Pharmacology, Micro Labs, Electric City, Bangalore, Karnataka, Pincode: 560100 Bangalore -----
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(57) Abstract :

The catalytic approach of green synthesis saw significant advancement in the fabrication of antibacterial nanomaterials, which led to significant development. The present study effort used the root extract of the Moringa oleifera plant in order to carry out the synthesis of zinc oxide nanomaterials (ZnO-NMs). This approach was chosen since it is both straightforward and friendly to the environment. The UV-Vis absorption spectroscopy, Fourier transforms infrared spectroscopy (FT-IR), X-ray diffraction (XRD), field emission scanning electron microscopy (FE-SEM), energy dispersive X-ray analysis (EDX), and photoluminescence spectroscopy were some of the analytical methods that were used to examine the fabricated MOR-ZnONMs (PL). The results of an XRD study showed that the MOR-ZnONMs that were synthesized had the structure of hexagonal wurtzite. The presence of a variety of functional groups was established by FT-IR to be the factor that was responsible for the reduction of the metal ion into MOR-ZnONMs. Dynamic Light Scattering (DLS) and Transmission Electron Microscopy (TEM) were used to take significant measurements in order to assess the particle size, morphology, and topography of the synthesized MOR-ZnONMs. The results were substantial. Utilizing EDX that was of high purity and crystalline form allowed for the identification of the intense and narrow widths of the zinc and oxygen that are present in the MOR-ZnONMs. After putting the manufactured MOR-ZnONMs through a series of tests to determine whether or not they have antibacterial properties, the results showed that the highest zones of inhibition were shown against Gram-positive and harmful Gram-negative bacteria.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241058666 A

(19) INDIA

(22) Date of filing of Application :13/10/2022

(43) Publication Date : 21/10/2022

(54) Title of the invention : A Novel Method for the Manufacturing and Analysis of Reinforced Composite Materials

(51) International classification :C08J0005040000, B32B0005020000, C08J0005240000, C04B0028020000, G01N0003020000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

This invention is about a new method of manufacturing composite materials. The material, carbon and E-Glass composites will give better results due to its characteristics of individual material. Fiber reinforced composite materials has been preferred in aerospace, military and civil applications due to their excellent mechanical properties like tensile-compressive strength, flexural and impact strength. As we know that the composites materials are used in aerospace structural components which is often subjected to high velocity impact threats like broken engine parts, deform the propellers and other outer exposed aircraft components. The Universal Testing Machine is used for testing its characters and find the good option for the future materials used in aerospace, automobile and material related industries.

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/10/2022

(21) Application No.202241059633 A

(43) Publication Date : 28/10/2022

(54) Title of the invention : ML strategy for performance enhancement of phase change material for a smart control solar application

(51) International classification :H02S0040420000, H02S0020300000, F21Y0115100000, H02S0020000000, F28D0020020000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
In this research, investigates the use of beeswax phase change materials (PCM) to maintain the temperature of the panels close to ambient. One of the main obstacles faced during the operation of photovoltaic (PV) panels was overheating due to excessive solar radiation and high ambient temperatures. Solar panels used in this study has 839 mm length, 537 mm wide, and 50 mm thick, with maximum output power at 50 W. During the study, there were two solar panels was evaluated, one without phase change material while the other one was using beeswax phase change material. Solar panels were mounted at 15o slope. Variables observed was the temperature of solar panel's surface, output voltage and current that produced by PV panels, wind speed around solar panels, and solar radiation.

No. of Pages : 24 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241064742 A

(19) INDIA

(22) Date of filing of Application :11/11/2022

(43) Publication Date : 25/11/2022

(54) Title of the invention : A method and a device of Wireless Master Joystick Controller for Robotics

(51) International classification :B25J0009160000, H04L0001000000, B25J0005000000, B25J0015000000, B25J0009000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The popularity of using robots in industries and factories instead of human workers has seen a high rise. Through this work we have attempted to make an alternative system of human for reducing the human labor by using simple and available components. This robotic system is controlled by a userthrough joystick. By the use of the joystick the user can operate both the robotic vehicle and the robotic arm. It will move from one place to another according to the command of the user and pickthe desired object and place it for the user. This design of the robot is easy, cheap and versatile, making it a great commercial candidate. With the increasing use of this kinds of robot the production rate will increase and the number of mishaps will decrease.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : Framing a Need Based Syllabus: A Case Study of Communication Skills and its Development in Polytechnic Colleges of West Bengal

(51) International classification :G09B0019060000, G06Q0050200000, G09B0019040000, G09B0007000000, G09B0005000000

(86) International Application No Filing Date :PCT// / :01/01/1900

(87) International Publication No : NA

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

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

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(57) Abstract :

The work was examining the role of needs analysis in framing the compulsory English syllabus for polytechnic students in polytechnic colleges, West Bengal. It aims to identify the advantages and disadvantages aspects of the syllabus, textbooks, and teaching strategies. The study examines the four language skills of the learner-based data collection from different backgrounds. The work observes the language skills of the learner and also considers the materials that are prescribed by the colleges to improve student's language proficiency. The reframing of the current syllabus required for students to develop their language skills. The work attempts to analyze the present technical English syllabus for polytechnic students at the colleges and subsequently conduct a needs assessment survey so that the student's English language requirements for the professional context are addressed.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2022

(21) Application No.202241075963 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : KNOWLEDGE BASED SYSTEM USING AI AND ONTOLOGY FOR SENTIMENT ANALYSIS OF RAILWAYS TWEETS

(51) International classification :G06K0009620000, G06Q0050000000, G06N0020000000, G06F0040300000, G06F0016350000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

Knowledge based systems help in expert decision making. Traditionally business systems relied on conventional feedback from consumers or customers. However, with the emergence of social media platforms where people share their opinions freely in such platforms, it became indispensable to incorporate social feedback into a system for making well informed decisions. Indian railways is one of the largest government organizations in India. It has tremendous responsibilities in providing safe and secure public transport in large scale. People of all walks of life share their opinions on Indian Railways and specific train services over social media. Therefore, garnering social feedback is essential for Indian Railways to improve its services and customer base. The current invention is meant for building a knowledge based system for sentiment analysis of Railway tweets. Twitter is considered due to its wide spread usage and availability of large volumes of opinionated data. This invention is realized with Natural Language Processing (NLP) techniques, multilevel filtering, feature selection and sentiment analysis. It has opinion filter and relevance filter and train number based clustering. It makes use of machine learning (ML) classifiers such as Support Vector Machine (SVM) based ensemble. These ensemble classifiers achieve better performance in sentiment analysis. The sentiment analysis is made based on specific attributes such as cleanliness, staff behaviour, security, food quality, and punctuality. The system also uses ontology to access knowledge based system with ease. The current invention is beneficial to many stakeholders such as Indian Railways, Indian government, Railways officials and passengers of Indian Railways besides researchers and academia.

No. of Pages : 15 No. of Claims : 5