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Patent Search

Invention Title	METHOD AND SYSTEM FOR OBSTACLE AVOIDANCE AND MOVEMENT OF VIRTUAL INSTRUMENTATION (VI) CONTROLLED ROBOT
Publication Number	36/2021
Publication Date	03/09/2021
Publication Type	INA
Application Number	202111037980
Application Filing Date	22/08/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G05D0001020000, B25J0009160000, G01C0021200000, G05B0019416000, A61B0090000000

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S. M. Jain	ADRDE Agra Cantt- 282001 India	India	India
Prof. Trapti Jain	402, Padamprabhu Apartment Silicon City, Indore-452012 India	India	India

Abstract:

A method for determining a way point feed for a robot is disclosed. The method includes determining a target location for the robot. A reference direction is determined for the robot to reach the target location. One or more obstacles present in a path of the robot are determined and evaluated to reach the target location in the reference direction. Upon positive determination of the one or more obstacles to reach the target location explicit free space in the path using an A* algorithm is computed to determine free path for movement of the robot to reach to the target location of the way point feed. Further, upon negative determination of the one or more obstacles to reach the target location, the robot is instructed to move at a constant speed to reach the target location of the way point feed.

Complete Specification

The present invention relates to a method and system for design and development and obstacle free movement of virtual instrumentation (VI) controlled intelligent robot for real time applications.

BACKGROUND

[0002] Typically, principled data-driven, adaptive, and incremental learning is a desirable property in domains in which datasets are dynamic and accumulate slowly over time. For example, robots have to build models of their dynamics and the environment as they interact with the world. Moreover, these models have to be computationally efficient during both the learning and evaluation process. In the case of general-purpose robots, these models have also been able to incorporate different modalities of continuous and discrete stochastic random variables and possibly incorporate heteroscedastic noise. Predominant and successful regression techniques, such as Gaussian Process Regression (GPR), Artificial Neural Networks (ANN), and Local Regression (LR), have a mixed set of properties that are useful in different scenarios but suffer from various shortcomings.

[0003] There is therefore a need to provide an improved mechanism that overcomes

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Patent Search

Invention Title	MULTI-DISC EDDY CURRENT BRAKING SYSTEM (ECBS) WITH INTELLIGENT CONTROLLERS
Publication Number	40/2021
Publication Date	01/10/2021
Publication Type	INA
Application Number	202111042350
Application Filing Date	18/09/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	G06F 30/33

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Abstract:

This invention is related to the field of Electrical engineering and particularly to the Design and development of multi-disc eddy current braking system. This inventor that a Multi disc ECBS is more effective for braking as compared to single disc ECBS. The construction of a hardware model of an ECBS with intelligent controllers is the this innovation. The developed scheme is in coordination with hardware model construction, analysis, and management of a multi-disc ECBS employing several intelligent controllers in great depth. Initially, FLC was created to determine the practical value of the necessary electromagnet current, resulting in increased braking performance. Furthermore, the ANN Controller has been created for existing equipment systems, and it gives better, more dependable and efficient outcomes for the sampling process as compared to the FLC and hardware reference model.

Complete Specification

The present invention is related to the field of Electrical engineering and particularly to the Design and development of multi-disc eddy current braking system.

Background of the invention

The eddy current braking system (ECBS) can be used in the various industries specifically where the control of moving part is required. Some of the applications are mentioned here i.e. aircraft arrester barrier system, braking of heavy electrical machines, high speed trains, large transportation vehicles, automobiles, vibration da exercise bicycle, air bearing system etc.

Considerable scientific work during last several decades has confirmed the superiority of ECBS over the conventional braking system. Various prototypes of ECBS h. been developed which include both permanent magnet (PM) type and electromagnet (EM) type. The electronically controlled unit and power source are not

needed in a PM type ECBS, but the main magnetic field is produced by an AC or DC power supply in an EM type. ECBS with several discs are more flexible and effect single disc ECBS.

Objective of the invention

A primary object of this invention is to provide an intelligent controller-based ECBS. An ECBS offers many advantages over the conventional braking system such as response time, no maintenance, no problem of spilling or leakage of brake fluid, no need of replacement of brake shoes and environment friendly.

Another object of the invention is to disclose the construction of a hardware model of an ECBS with intelligent controllers. The developed scheme is in coordination hardware model construction, analysis, and management of a multi-disc ECBS employing several intelligent controllers in great depth

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Patent Search

Invention Title	AN ELECTRIC VEHICLE USING ANN REGULATOR FOR REGENERATIVE BRAKING
Publication Number	42/2021
Publication Date	15/10/2021
Publication Type	INA
Application Number	202111044502
Application Filing Date	30/09/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	B60L 15/20

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Prof. Neelam Srivastava	IET, Lucknow, Uttar Pradesh- 226021, India	India	In

Abstract:

The present disclosure relates to a method for enhancing efficiency of an electric vehicle integrated with the RBS through ANN regulator, and a vehicle thereof. The method involves estimating SOC battery and speed of the vehicle. If a brake pedal is engaged, then a braking force is calculated else the method involves estimating the SOC the speed again. The braking force applied is calculated for both front and rear wheels. Thereafter, the regenerative braking energy is calculated using ANN regulator further involves adapting the regenerative braking energy to brake current. If maximum SOC is achieved, PID controller may be set for regenerative braking with MO option may be locating the controller for regenerative battery with battery. Finally, the method involves executing and regulating the duty cycles for achieving stable regenerative braking.

Complete Specification

The present disclosure generally relates to electric vehicles. More specifically, the present disclosure relates to an electric vehicle using ANN controller for regenerative braking system. BACKGROUND

Regenerative Braking System (RBS) is an energy recovery mechanism to save kinetic energy which would have been otherwise wasted in the form of heat due to friction while braking. This energy is stored in a capacitor bank or a flywheel setup temporarily. To get better performance of electric vehicle good circuitry, control program equipment, suitable interfacing hardware and software can be used. These days, almost all the vehicles including electric vehicles (EV) are integrated with RBS system. Power lost as high temperature can be up to 30% of the total power and even if some part of this power is saved then it can be utilized to run vehicle extra mileage. This energy can be utilized while going on up gradient. But when sudden brakes are applied for a dynamic obstacle e.g. human, animal come across the path then it takes hard braking where it stops before 5-6 inches before the obstacle. Hence, in such a case the heat energy goes into the motor where it changes into mechanical energy then it goes into the battery. The conventional EVs integrated with RBS system are not up to the mark. They have a drawback of battery charging problem of long time period. Also, there are challenges associated with the battery back up.

Therefore, there exists a need for improving efficiency of the EVs integrated with RBS.

SUMMARY

In an aspect, the present invention discloses a method for enhancing efficiency of an electric vehicle integrated with the RBS through ANN regulator, and a vehicle therefor. The method involves estimating SOC battery and speed of the vehicle. If a brake pedal is engaged, then a braking force is calculated else the method involves estimating the SOC battery and the speed again. The braking force applied is calculated for both front and rear wheels. Thereafter, the regenerative braking energy is calculated.

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Patent Search

Invention Title	MEDICAL MECHANICAL MOBILE CHARGER
Publication Number	51/2021
Publication Date	17/12/2021
Publication Type	INA
Application Number	202111057751
Application Filing Date	12/12/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H02J0007000000, H04L0012580000, H02J0007340000, H02J0007020000, H02J0007320000

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Applicant

Name	Address	Country	Nationality
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Abstract:

An efficient and health boosting system to charge all your electronic gadgets with multi benefits anywhere and anytime. At present cell phone is pivot of our life which update about all the things in the world and help to easily communicate with others. So, in the present era a sustained mobile charging system is essential requirement while travelling in a bus or staying in remote area, phone gets discharged and there is no way of charging. During such critical situation, this invention "Medical Mech Charge" provides the best method for charging phone without electricity using mechanical energy.

Complete Specification

The present invention relates generally to Engineering- medical system and more specifically it belongs to energy transmission system for charging electronic appliances under all circumstances regardless location and time.

2. Description of the Related Art

Mobile chargers have been in use from many years, to maintain maximum performance efficient components should be used, maintained and power supply is required to charge phone.

We Claim:

1. A PCB which contains capacitor and IC regulator; wherein said at least one motor attachment from the circuit;

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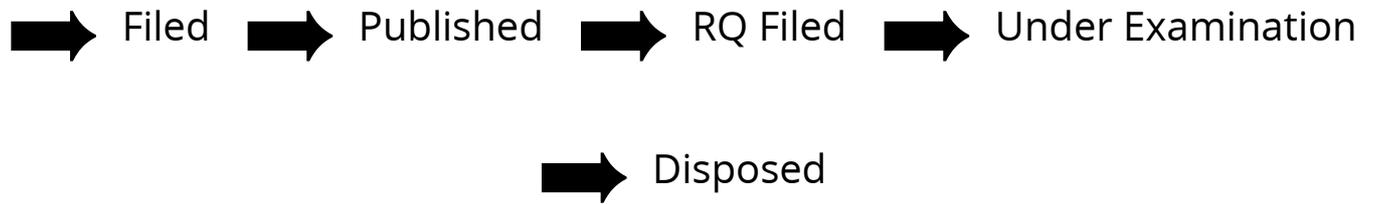
Application Details

APPLICATION NUMBER	201811008971
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/03/2018
APPLICANT NAME	BRAHMA SWARUP GUPTA
TITLE OF INVENTION	A NOVEL COST EFFECTIVE CIRCUIT CONIGURATION FOR AUTOMATIC WATER PUMPING SYSTEMS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	guptabs@gmail.com
E-MAIL (UPDATED Online)	patent.trademark@gmail.com
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	26/06/2018
PUBLICATION DATE (U/S 11A)	30/03/2018
REPLY TO FER DATE	30/07/2020

Application Status

APPLICATION STATUS	Reply Filed. Application in amended examination
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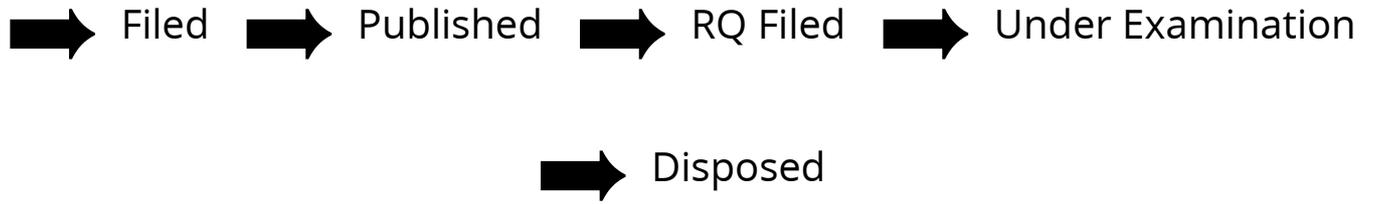
Application Details

APPLICATION NUMBER	201911037637
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/09/2019
APPLICANT NAME	DAYALBAGH EDUCATIONAL INSTITUTE
TITLE OF INVENTION	"PORTABLE FIXTURES FOR HOLDING FLAT METAL PLATES IN A TOOL POST OF A CONVENTIONAL LATHE MACHINE FOR WELDING"
FIELD OF INVENTION	MECHANICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/01/2022
PUBLICATION DATE (U/S 11A)	03/09/2021

Application Status

APPLICATION STATUS	Application Awaiting Examination
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Patent Search

Invention Title	"AI-based hybrid leg wheel track the ground mobile robot"
Publication Number	18/2021
Publication Date	30/04/2021
Publication Type	INA
Application Number	202111019302
Application Filing Date	27/04/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0010040000, G06Q0030020000, G06Q0050260000, G06F0030200000, G06Q0050140000

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Abstract:

Urban development, urban mobility, urban protection, and tourism need to increase the potential to detect and predict the crowd's movement in modern cities. How presents many problems for sensing and data collection technologies. The invention aims to summarise: The several application fields of crowd sensing and prediction technology can affect crowds with their capacity and limitations sensitively; (iii) data processing methods that can be used efficiently to forecast crowd distribution. It also seeks to recognize transparent and promising problems for science and technology.

Complete Specification

In general, this specification aims to predict and, more specifically, at crowd prevision and attendance prediction systems and methods using IoT in a smart city.

DISCUSSION OF THE PRIOR ART:

The need to identify existing circumstances (for example, traffic, electricity use, noise, etc.) and the potential of anticipating possible developments in those conditions avoid problems and achieve better-informed decision-making and planning are important general issues an extensive panorama of inventions and approaches in smart cities.

In particular, the ability to track and forecast crowd activity is a major catalyst for intelligent cities. Without needing to know what the behavior and their movement problem that can also raise serious privacy concerns), have a picture of the overall population density of any part of a municipality, understands how this density changes over time, and can predict those changes in a wide range of situations.

There is a growing recognition and a wide variety of approaches to crowdsensing (this means "sensing the crowd," to be not mistaken with "sensing through the crowd approaches that are generally known as "crowdsensing," concerning the likelihood of people in the crowd

contributing sensory information). Nevertheless, the prior art hunt still lacks a concise description of such an important subject, and the invention aims to fill this void. Concentrate on this innovation concept

Identify the several field fields for efficient crowdsensing and prediction and report on specific instances from literature and the real world. Mobility preparation, so planning project scheduling mass management and epidemiological planning

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Patent Search

Invention Title	APPARATUS AND METHOD FOR DETERMINING PLANT STRESS
Publication Number	36/2021
Publication Date	03/09/2021
Publication Type	INA
Application Number	202111033265
Application Filing Date	23/07/2021
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Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	A61B0005110000, A01G0007000000, A01G0025160000, G01N0027220000, A61N0001050000

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Applicant

Name	Address	Country	Na
Dayalbagh Educational Institute	Dayalbagh Educational Institute, Dayalbagh, Agra - 282005, Uttar Pradesh, India	India	In

Abstract:

The present disclosure provides an apparatus (100) and method (400) for determining plant stress. The apparatus (100) includes a plurality of electrodes (104) partial into a plant growth medium (106), and at least one sensor (114) configured to determine environmental parameters of a surrounding environment of the plant (102). apparatus (100) includes a control unit (108) configured to provide a control command to the plurality of electrodes (104) for determining electrical parameters basec part, on charge carrier concentration in the plant growth medium (106). The apparatus (100) includes a computing device (116) configured to compute a decision sco of the plant stress based, at least in part, on the electrical parameters measured for the plant growth medium (106) and the environmental parameters.

Complete Specification

The present disclosure relates to a plant stress detection system and, more particularly, relates to an apparatus and method for determining biotic 5 and/or abiotic plant stress by measuring electrical parameters around a growth medium (i.e. soil) throughout the growth cycle of the plant to prevent crop loss.

BACKGROUND

[0002] Generally, crop loss due to an inefficient sampling of plants in cultivation land is one of the serious issues in the agriculture sector. The crop loss 10 may be due to conditions such as disease (i.e. plant stress) or under-development due to lack of water supply or fertilizers going undetected or uncontrolled usage of pesticides. Hence, sampling of the plants for early detection of the plant stress is crucial to prevent financial losses incurred to farmers or cultivators.

Conventionally, the health status of the plants is identified by mere visual 15 inspection based on colour, texture and other physical appearances of the plants, which are not always accurate.

[0003] Further, the detection of plant stress is done by various techniques

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Patent Search

Invention Title	APPARATUS AND METHOD FOR DETECTING COUNTERFEIT DRUGS
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Publication Date	03/09/2021
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Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q0030000000, H01R0107000000, A61M0035000000, A61B0005000000, A63B0021002000

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Applicant

Name	Address	Country	Na
Dayalbagh Educational Institute	Dayalbagh Educational Institute, Dayalbagh, Agra – 282005, Uttar Pradesh, India	India	In

Abstract:

The present disclosure provides an apparatus (100) and a method (400) for detecting counterfeit drugs. The apparatus (100) includes a first receptacle (102) configured to accommodate a drug (104) to be tested and a second receptacle (106) configured to encase the first receptacle (102) accommodating the drug (104). The apparatus (100) includes one or more loop couplers (110) mounted to the second receptacle (106) that is configured to provide a series of frequency signals within the second receptacle (106) that attains a resonant mode. The apparatus (100) includes a computing device (118) trained with a training data to perform a quantitative and an analysis of the drug (104) to determine counterfeit in the drug (104) based at least on dielectric parameters measured at the resonant mode for the drug (104).

Complete Specification

The present disclosure relates to detection of counterfeit drugs and, more particularly, relates to an apparatus and method for detecting counterfeit in drugs in form of either solid, semi-solid or liquid by using a microwave cavity perturbation technique.

BACKGROUND

10 [0002] Counterfeit drugs are often a major concern and threat to the healthcare and pharmaceutical industry. These drugs contain inadequate amounts of active pharmaceutical ingredients (API) or no API at all, contributing to one of main reasons behind treatment failures and triggering of an adverse immune response. In spite of the strict surveillance methods (i.e. label-based screening techniques such as 15 hologram-print or QR-code based techniques), there have been frequent occurrences of sale of life-style related drugs online without any prescription from certified medical practitioners.

[0003] Over the years, many techniques have been devised for the detection of counterfeit drugs. These techniques primarily use Near-Infrared Spectroscopy

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