Department of Computer Science and Engineering

List of Patents

S.No.	Title of the Patent	File Number	Date	Names of the Patenter	Status
2023-24					
1.	RIDE SAFEGUARD:A Holistic Approach to Rider Safety and Demand Prediction	202441041243	31/05/2024	DR.G.Charles Babu	2024 Published
2.	Precision Agriculture Platform: Optimizing Crop Management For Sustainable Yields	202441041244	31/05/2024	DR.G.Charles Babu	2024 Published
3.	Creating a Visual-Based Authentication System Utilizing CCP	202441041245	31/05/2024	DR.G.Charles Babu DR.B.Sankara Babu	2024 Published
4.	Digital Certificate Authentication System Using Block Chain Technology	202441023701 A	05/04/2024	Dr.B.Sankara Babu	2024 Published
5.	A Hybrid System For Automatic Speed Control And Alarm For Abnormal Driving Vehicle	202441016140 A	29/03/2024	B.Geetha Kumari	2024 Published
6.	Implementation Of Hybrid Deep Learning Models For Battery Systems In Real World Electric Vehicles	202331048934 A	13/10/2023	Dr.G N Beena Bethel	2023 Published

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Department for Promotion of Industry and Internal Trade
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Application Details	
APPLICATION NUMBER	202441041243
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/05/2024
APPLICANT NAME	GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY
TITLE OF INVENTION	RIDE SAFEGUARD: A HOLISTIC APPROACH TO RIDER SAFETY AND DEMAND PREDICTION
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
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View Documents

FORM 2

TITLE OF THE INVENTION: Ride Safeguard: A Holistic Approach to Rider Safety and Demand Prediction

IN----: Computer Science and Engineering

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TITLE OF INVENTION	CREATING A VISUAL-BASED AUTHENTICATION SYSTEM UTILIZING CCP
FIELD OF INVENTION	COMPUTER SCIENCE
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/03/2024

(21) Application No.202441023701 A
(43) Publication Date : 05/04/2024

(54) Title of the invention : DIGITAL CERTIFICATE AUTHENTICATION SYSTEM USING BLOCKCHAIN TECHNOLOGY

(51) International classification	:H04L0009080000, B65D0047020000, B60K0035000000, G06Q0030000000, H04L0009300000
(86) International Application No Filing Date	:NA :NA
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(57) Abstract :
According to India's Ministry of Education, roughly one million graduates are produced each time; some will continue their education in nations, high seminaries, or post-secondary institutions, while others will be prepared to enter the pool. Throughout their studies, the scholars' great performance instruments, score reiterations, warrants, and other documents will serve as significant references for admission to new seminaries or jobs. Only the names of the seminaries and the scholars are entered as awards or diplomas are created. Events that affect in the phony of a scale instrument are constantly observed due to the lack of an Effective anti-forge medium. The digital instrument system grounded on blockchain technology would be offered to overcome the problem of instrument counterfeiting. The digital instrument with anti-counterfeit and verifiability could be created using blockchain's changeable property. Testing and quantization are the ways for issuing a digital instrument in this system. Our operation runs in offline mode

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

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(22) Date of filing of Application :07/03/2024

(21) Application No.202441016140 A
(43) Publication Date : 29/03/2024

(54) Title of the invention : A HYBRID SYSTEM FOR AUTOMATIC SPEED CONTROL AND ALARM FOR ABNORMAL DRIVING VEHICLE

(51) International classification :G06N0003080000, G06N0003040000, G06K0009620000, G06Q0050300000, G06N0020000000
(86) International Application No :NA
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(57) Abstract :
Video-based abnormal driving behavior detection is becoming more and more popular for the time being, as it is highly important in ensuring safeties of drivers and passengers in the vehicle, and it is an essential step in realizing automatic driving at the current stage. Thanks to recent developments in deep learning techniques, this challenging detection task can be largely facilitated via the prominent generalization capability of sophisticated deep learning models as well as large volumes of video clips which are indispensable for thoroughly training these data-driven deep learning models. In this project, deep learning fusion techniques are emphasized, and three novel deep learning-based fusion models inspired by the recently proposed and popular densely connected convolutional network (Dense Net) are introduced, to fulfil the video-based abnormal driving behavior detection task for the first time. These three new deep learning-based fusion models are named as the wide group densely (WGD) network, the wide group residual densely (WGRD) network, and the alternative wide group residual densely (AWGRD) network, respectively. Technically, WGD takes important issues of deep learning models, i.e., the depth, the width and the cardinality, into consideration when designing its model structure based on Dense Net. For the WGRD and AWGRD, they are more sophisticated as the important idea of residual networks with superpositions of previous layers is incorporated. The extensive experiments are conducted to verify the effectiveness of three new models. Their superiority has been suggested based on rigorous comparisons towards several popular deep learning models in this video-based abnormal driving behaviour detection study.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/07/2023

(21) Application No.202331048934 A
(43) Publication Date : 13/10/2023

(54) Title of the invention : IMPLEMENTATION OF HYBRID DEEP LEARNING MODELS FOR BATTERY SYSTEMS IN REAL WORLD ELECTRIC VEHICLES

(51) International classification :G06N0003080000, G06N0003040000, G06N0020000000, G06F0030150000, G06T0019000000
(86) International Application No :PCT//
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(87) International Publication No : NA
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Filing Date :NA

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(57) Abstract :
Implementation of hybrid deep learning models for battery systems in real world electric vehicles is the proposed invention. The invention aims at understanding the battery system in real world electric vehicles. The algorithms of deep learning especially hybrid models of deep learning are used for analyzing the efficacy of electric vehicles.

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