



सत्यमेव जयते



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

469671

आवेदन सं. / Application No.

201841045710

फाइल करने की तारीख / Date of Filing

04/12/2018

पेटेंटी / Patentee

1.Dr. KANAKA DURGA RETURI 2.Dr. SRINIVASU BADUGU
3.K. SRUJAN RAJU 4.Dr. VAKA MURALI MOHAN

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **SYSTEM FOR BLOCK CHAIN CLOUD SERVICE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2018 के चौथे दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **SYSTEM FOR BLOCK CHAIN CLOUD SERVICE** as disclosed in the above mentioned application for the term of 20 years from the 4th day of December 2018 in accordance with the provisions of the Patents Act, 1970.



[Signature]

Controller of Patents

अनुदान की तारीख : 16/11/2023
Date of Grant :

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2020 के चौथे दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 4th day of December 2020 and on the same day in every year thereafter.

*चूंकि पेटेंटी व आविष्कारकों की संख्या अधिक है, पेटेंटी व आविष्कारकों के नाम पृष्ठ संख्या 2 पर जारी हैं।
*Since the Number of Patentees / Inventors is more, the name of Patentees / Inventors are continued on Page No. 2



**INTELLECTUAL
PROPERTY INDIA**
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

पेटेंट प्रमाणपत्र के लिए अनुलग्नक/Annexure to Patent Certificate

पेटेंट सं. / Patent No.

469671

आवेदन सं. / Application No.

201841045710

फाइल करने की तारीख / Date of Filing

04/12/2018

पेटेंटी / Patentee (जारी/Continued)

5.D.R. RAMAKRISHNA MURTY 6.S. NAGA RAJU



**INTELLECTUAL
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 044149465
SL No :



पेटेंट सं. / Patent No. : 420306
आवेदन सं. / Application No. : 201941047511
फाइल करने की तारीख / Date of Filing : 21/11/2019
पेटेंटी / Patentee : 1.Dr. VAKA MURALI MOHAN 2.Dr. KANAKA DURGA
RETURI

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित SYSTEM AND METHOD TO IMPROVE THE PERFORMANCE INDEX IN TRANSPORT PROCESS BY USING ARTIFICIAL NEURAL NETWORKS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2019 के इक्कीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled SYSTEM AND METHOD TO IMPROVE THE PERFORMANCE INDEX IN TRANSPORT PROCESS BY USING ARTIFICIAL NEURAL NETWORKS as disclosed in the above mentioned application for the term of 20 years from the 21st day of November 2019 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 02/02/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2021 के इक्कीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 21st day of November 2021 and on the same day in every year thereafter.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/09/2023

(21) Application No.202341065260 A

(43) Publication Date : 06/10/2023

(54) Title of the invention : INNOVATIONS IN NATURAL LANGUAGE PROCESSING FOR EFFICIENT DATA PRIVACY AND SECURITY

(51) International classification :G06F0040295000, G06F0021620000, G06N0003040000, G06F0015760000, G06F0021320000
(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 :
As information systems deal with contracts and documents in essential services, there is a lack of mechanisms to help organizations in protecting the involved data subjects. In this paper, we evaluate the use of named entity recognition as a way to identify, monitor and validate personally identifiable information. In our experiments, we use three of the most well-known Natural Language Processing tools (NLTK, Stanford CoreNLP, and spaCy). First, the effectiveness of the tools is evaluated in a generic dataset. Then, the tools are applied in datasets built based on contracts that contain personally identifiable information. The results show that models' performance was highly positive in accurately classifying both the generic and the contracts' data. Furthermore, we discuss how our proposal can effectively act as a Privacy Enhancing Technology.. Accompanied Drawing [FIG. 1] [FIG. 2]

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/07/2023

(21) Application No.202341050567 A

(43) Publication Date : 01/09/2023

(54) Title of the invention : Automated Diagnosis System for Medical Images using Convolution Neural Networks

(51) International classification :G06N0003080000, G06N0003040000, G06K0009620000, G16H0050200000, G06N0020000000
(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 :

For the diagnosis of medical imaging, there should be labeled and standardized big data. AI is generally a concept that includes machine learning and deep-learning, and can be analyzed in various ways, depending on the characteristics of images stored in the database. The data is pre-processed in the same order, entered into the deep-learning architecture, and final diagnosis results are obtained. The hyper-parameter is changed and the deep-learning result is checked and modified to optimize the parameter. In order to solve the problem of over-fitting due to lack of the sufficient labeled data, data augmentation is performed through rotation, left and right flip, and GAN. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3]

No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/11/2023

(21) Application No.202341075894 A

(43) Publication Date : 15/12/2023

(54) Title of the invention : A SECURE ARCHITECTURE USING BLOCK CHAIN TECHNOLOGY FOR SHARED ELECTRIC VEHICLE CHARGING

(51) International classification :G06Q0050060000, H04L0009320000, G06Q0030060000, H04L0009060000, G06F0021640000
(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 :

A system and method for a secure and decentralized architecture for managing shared electric vehicle (EV) charging using blockchain technology. The system ensures secure and transparent transaction processing, user authentication, and dynamic pricing for charging services through immutable record-keeping. Smart contracts automate billing and energy distribution to enhance operational efficiency and user experience. A custom consensus mechanism ensures decentralized transaction validation, maintaining system integrity. The system integrates predictive maintenance and supports renewable energy sources, promoting sustainability and a peer-to-peer energy transaction model for a robust EV charging infrastructure.

No. of Pages : 25 No. of Claims : 10



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Application Details

APPLICATION NUMBER	202311045225
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/07/2023
APPLICANT NAME	1 . Dr. Rakesh Verma 2 . Dr. Kumaraswamy S 3 . Dr. Sanjana Prasad 4 . Mrs. Kotha Vijaya Gowri 5 . Dr. Hemanta Chakravarty 6 . Mr. Prajwal Vitthal Bhalsing 7 . Mr. Suhas Suresh 8 . Dr. D. Muthukrishnaveni 9 . Mr. Susheel Aakulu
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED FRAUD DETECTION SYSTEM FOR FINANCIAL TRANSACTIONS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	rv.hvpe@gmail.com
ADDITIONAL-EMAIL (As Per Record)	rv.hvpe@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/08/2023

Application Status

FORM- 5
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003
DECLARATION AS TO INVENTORSHIP
[See Section 10(6) and Rule 13(6)]

1. NAME OF THE APPLICANT

I/We Dr. Rakesh Verma et. al., all are citizen of India, Address of one of the Applicant: Associate Professor, Department of MBA, GNIOT MBA Institute, Greater Noida, U P, India, 201310.

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my-/ our application numbered _____ dated 04-07-2023 is/are

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9. Mr. Susheel Aakulu	INDIAN	Senior Data Consultant, IT- Data Science, Royal Melbourne Institute of Technology, Melbourne, Victoria, Australia 3006
3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:— N.A. We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).		
Dated this 04th day of July 2023 Dr. Rakesh Verma et. al. Applicant(s) To, The Controller of Patents The Patent Office, Delhi		

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/11/2023

(21) Application No.202341075896 A

(43) Publication Date : 15/12/2023

(54) Title of the invention : AUTOMATIC CLASSIFICATION AND ARTIFACTS REMOVAL OF EEG SIGNAL USING MACHINE LEARNING

(51) International classification :A61B5/0476, A61B5/372, G06F18/24, G06N20/00, G06N3/08
(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 :

An automatic classification and artifact removal system for EEG signals employs machine learning techniques to enhance the accuracy and efficiency of EEG signal analysis. The system preprocesses EEG data, extracts relevant features, and utilizes trained machine learning models to differentiate between artifacts and genuine brain activity. Upon detecting artifacts, the system activates a removal process that minimizes the impact on the original EEG signal. Designed to adapt and improve over time, the system promises significant advancements in neurology, cognitive science, and brain-computer interfacing.

No. of Pages : 27 No. of Claims : 10



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Application Details

APPLICATION NUMBER	202311001272
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/01/2023
APPLICANT NAME	1 . Mr.Bharat Maurya 2 . Dr. Gilbert Roland 3 . Dr.J.Seetha 4 . Mrs. Veena R 5 . Dr. Renuka Arora 6 . Mrs. Sangeeta Singh 7 . Mrs.Chinthala Keerthi 8 . Dr. Vilas Ramrao Joshi 9 . Dr. Vaishali Kothiya 10 . Mr. Sandeep.B
TITLE OF INVENTION	A BLOCK CHAIN BASE MODEL FOR DEVELOPING INNOVATIVE EDUCATIONAL SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL-EMAIL (As Per Record)	mail2patentipr@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/01/2023

Application Status

FORM- 5
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003
DECLARATION AS TO INVENTORSHIP
[See Section 10(6) and Rule 13(6)]

1. NAME OF THE APPLICANT

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hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of ~~my~~/ our application numbered _____ dated 05-01-2023 is/are

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~~3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:--~~

N.A.

~~We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).~~

Dated this 5th day of January 2023

Mr.Bharat Maurya et. al.
Applicant(s)

To,
The Controller of Patents
The Patent Office, Delhi

(12) PATENT APPLICATION PUBLICATION

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(54) Title of the invention : MATHEMATICAL OPTIMIZATION ALGORITHMS FOR ENHANCED PERFORMANCE IN NEURAL NETWORKS

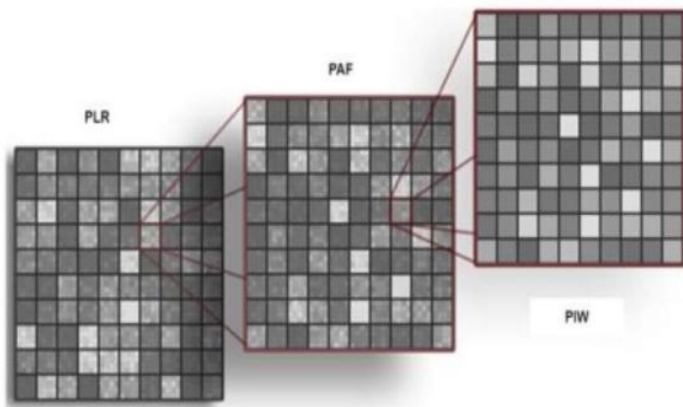
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(57) Abstract :
[06] In this work, a method for automatic search of artificial neural networks (ANN) using cellular genetic algorithms (CGA) is proposed. The objective of this method is to find compact networks with good learning performance in classification problems. One of the main reasons for developing this method is the difficult task of configuring compact ANNs with good performance. The use of CGA aims to search for ANN components in the same way as a conventional Genetic Algorithm (GA), but has the difference of including a Cellular Automata (CA) that provides localization to GA individuals. This placement of deposited CA aims to control the dispersion of solutions in the population to maintain genetic diversity over a longer period of time. This genetic diversity is important for GA to achieve good results. Accompanied Drawing [FIG. 1]



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(57) Abstract :
Wireless networks consist of several low-cost nodes, mostly with narrowly limited capacities for sensing, calculation, and communication. Data aggregation is the mechanism by which sensor data is summarized and combined to minimize data transfer in the network. Since wireless sensor networks are usually used to communicate sensitive information in remote and hostile environments, sensor nodes also are susceptible to different attack types. The packet drop attack is one such attack where the compromised sensor nodes drop the whole or selective packets intentionally. Hence, wireless sensor network protocols must be designed with security in mind. This work introduces a secure and energy oriented mechanism named secure multi-objective Lion Optimization Algorithm (SMOLOA) which takes the advantage of the Lion optimization algorithm LOA. The network is divided as clusters based on k-means clustering for energy efficiency & easy data aggregation. SMOLOA evaluates the fitness function on the basis of key parameters such as packet drop, residual node energy, linked nodal density, cluster- distance average, and average transmission delay. The optimal route is based on LOA's proposed multi-target function. Compared to current schemes, the results from simulation demonstrated considerable improvements in safe data aggregation and energy usage. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8]

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(57) Abstract :

The system under development, called BLIND-Net, is made up of an RGB video camera that inspects the environment or place where the blind person is. It also has a Jetson TX2 card, which is responsible for processing the captured images. Through the camera and through an algorithm designed to identify safe areas and obstacles, it sends alert signals to a haptic belt that allows the blind person to detect the spaces through which they can circulate and those they should avoid. As an improvement to the BLIND-Net system, the alternative of replacing the Jetson card with cloud processing of the data captured by the RGB camera is being analyzed and thus avoids the weight of the equipment on the body of the person using it and improve the ergonomic design of the system under development. The main objective of BLIND-Net is to contribute with technological tools of industry 4.0 applied to people with visual disabilities, through the implementation of a vision-based system, which assists blind people in navigation activities in unknown indoor environments, detecting obstacles, spaces to walk through and objects of interest such as doors, chairs, steps, computers, among others, which together with a trajectory planning module, allow people with this disability to reach these objects safely (targeted navigation).
Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5]

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