

ORIGINAL

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पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र

Certificate of Registration of Design

डिजाइन सं. / Design No.

398186-001

तारीख / Date

21/10/2023

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **MEDICALLY-ORIENTED AUGMENTED REALITY HEADSET** से संबंधित है, का पंजीकरण, श्रेणी 14-02 में 1.Dr. Lokendra Singh Umrao 2. Mr. Vineet Kumar Srivastava 3.Dr. Ratnesh Prasad Srivastava 4.Mr. Arun Mani Tripathi 5.Mr. Suhel Ahamed के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to **MEDICALLY-ORIENTED AUGMENTED REALITY HEADSET** in the name of 1.Dr. Lokendra Singh Umrao 2. Mr. Vineet Kumar Srivastava 3.Dr. Ratnesh Prasad Srivastava 4.Mr. Arun Mani Tripathi 5.Mr. Suhel Ahamed.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अधधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 14/12/2023
Date of Issue



महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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पेटेंट कार्यालय
शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

02thAUGUST, 2024

CONTENTS

<i>SUBJECT</i>		<i>PAGE NUMBER</i>
JURISDICTION	:	67882-67883
SPECIAL NOTICE	:	67884-67885
EARLY PUBLICATION (DELHI)	:	67886-67963
EARLY PUBLICATION (MUMBAI)	:	67964-68124
EARLY PUBLICATION (CHENNAI)	:	68125-68695
EARLY PUBLICATION (KOLKATA)	:	68696-68713
PUBLICATION AFTER 18 MONTHS (DELHI)	:	68714-69530
PUBLICATION AFTER 18 MONTHS (MUMBAI)	:	69531-69713
PUBLICATION AFTER 18 MONTHS (CHENNAI)	:	69714-70174
PUBLICATION AFTER 18 MONTHS (KOLKATA)	:	70175-70202
WEEKLY ISSUED FER (DELHI)	:	70203-70206
WEEKLY ISSUED FER (MUMBAI)	:	70207-70209
WEEKLY ISSUED FER (CHENNAI)	:	70210-70214
WEEKLY ISSUED FER (KOLKATA)	:	70215
PUBLICATION U/R 84[3] IN RESPECT OF APPLICATION FOR RESTORATION OF PATENTS (KOLKATA)	:	70216
PUBLICATION U/S 61 IN RESPECT OF APPLICATION FOR RESTORATION OF PATENTS (DELHI)	:	70217
PUBLICATION UNDER SECTION 57 AND UNDER RULE 81(3) (a) RESPECT OF AMENDMENT OF CLAIMS OF COMPLETE SPECIFICATION (KOLKATA)	:	70218-70221
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (DELHI)	:	70222-70254
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (MUMBAI)	:	70255-70277
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (CHENNAI)	:	70278-70318
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (KOLKATA)	;	70319-70330
INTRODUCTION TO DESIGN PUBLICATION	:	70331
REGISTRATION OF DESIGNS	:	70332-70590

**THE PATENT OFFICE
KOLKATA, 02/08/2024**

Address of the Patent Offices/Jurisdictions

The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

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2	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai – 400 037</p> <p>Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in</p> <p>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli</p>	5	<p>The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091</p> <p>Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in</p> <p>❖ Rest of India</p>
3	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi – 110075</p> <p>Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E-mail: delhi-patent@nic.in</p> <p>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.</p>		

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पेटेंट कार्यालय
कोलकाता, दिनांक 02/08/2024
कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdmt@nic.in	4	पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फ़ैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप
2	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर और नगर हवेली.	5	पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र
3	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़		

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पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

(51) International classification :G08G0001140000, H02J0007000000, G06Q0050300000, G07B0015000000, G06Q0010020000

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Filing Date :NA

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(57) Abstract :

The present invention discloses a Smart Parking Management System aimed at reducing time and increasing the efficiency of current parking infrastructure. The system employs Arduino UNO, ultrasonic sensors, IR sensors, buzzers, RFID, LCD displays, servo motors, wireless charging modules, and LED lights for direction and indication. It addresses the challenge of efficiently finding empty parking spaces and managing vehicle flow within complex parking structures. IR sensors detect vehicles and provide real-time feedback on parking availability, guiding drivers to vacant spaces. Wireless charging enhances the user experience by allowing convenient, cordless charging of electric vehicles. The system also incorporates RFID technology for secure vehicle access and uses LEDs for directional guidance. The integration of these technologies creates a comprehensive and efficient Smart Parking Management System.

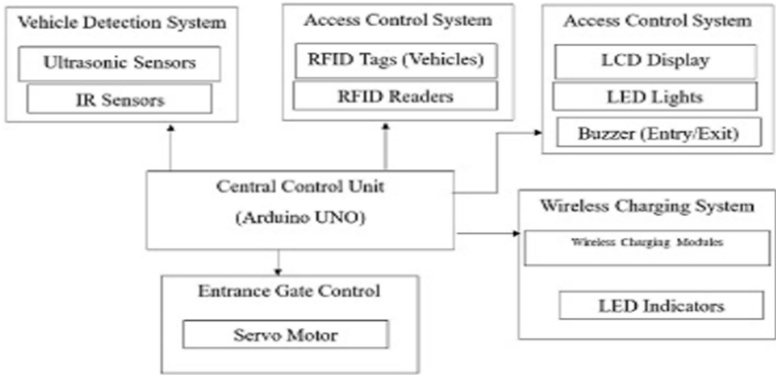


FIGURE 1

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2023 107 165

Bezeichnung:

Auf optischer Zeichenerkennung basierendes System zur Unterstützung
sehbehinderter Menschen

IPC:

G06V 10/80

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(19) INDIA

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(43) Publication Date : 16/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR TIMESERIES PREDICTION OF INFECTIOUS DISEASE CASES FROM MULTI-COUNTRY DATA USING REMODELED ARTIFICIAL NEURAL NETWORK (ANN)

(51) International classification :A61B 050000, G06N 030400, G06N 030800, G16H 507000, G16H 508000
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Filing Date :NA
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(61) Patent of Addition to Application Number :NA
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(57) Abstract :

The present invention introduces a system and method for accurate time series prediction of infectious disease cases using an Artificial Neural Network (ANN). The system collects and normalizes infectious disease data from multiple countries, extracts statistical features through a sliding window approach, and utilizes a modified multilayer neural network (MMLNN) model for precise predictions. The MMLNN model incorporates a unique concept of applying the activation function before the connecting weights, resulting in improved accuracy and computational efficiency. The system includes training and testing mechanisms to evaluate the performance of the MMLNN model, comparing predicted figures with actual values for assessment. Specifically designed for COVID-19 caused by the SARS-CoV-2 virus, the system predicts the next day's confirmed, death, and recovery cases for specific countries, such as India, Italy, Spain, and the USA. The proposed method follows a similar process, comprising data collection, normalization, statistical feature extraction, MMLNN model development, training, and testing. By offering reliable predictions, this system and method empower public health officials and policymakers to make informed decisions in managing and controlling infectious disease outbreaks.



FIGURE 1

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : SYSTEM AND METHOD OF WAVELET BASED ENSEMBLE MODELS FOR EARLY MORTALITY PREDICTION USING IMBALANCE ICU BIG DATA

(51) International classification :G06N 202000, G16H 502000, H02H 010000, H04L 270000, H04N 196400
 (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
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(57) Abstract :

The present invention provides a method and system for predicting the mortality of patients admitted to the Intensive Care Unit (ICU) using an ensemble learning classifier. The method includes obtaining a high-dimensional, imbalanced patient database with missing values, collected during the first 48 hours, 24 hours, and 48 hours of a patient's admission to the ICU. Missing values are filled using k-NN or mean imputation, and synthetic minority oversampling techniques (SMOTE) are applied for resampling the patient data. Discrete wavelet transform (DWT) is used to extract transform domain features, and twelve different machine learning classifiers are trained using the extracted wavelet coefficients with 5-fold cross validation over 10 independent experiments. The top three performing classifiers are selected, and ensemble learning models are developed using these classifiers. The ensemble learning models are evaluated using ICU patient datasets such as Physionet challenge 2012, WiDS datathon 2020, and MIMIC-III, and mortality predictions are made based on the evaluation results. The method achieves high accuracy and reliability in predicting ICU patient mortality, offering potential improvements in patient care and resource allocation.

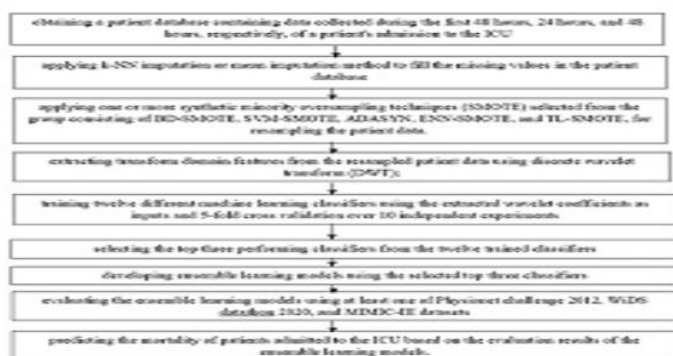


FIGURE 1

No. of Pages : 16 No. of Claims : 7