

Institutional strategic plan:

Institutional strategic plan is deployed, with respect to the following. The institute celebrated national and international commemorative days with more participation from students. In addition to regular events and celebrations of national, cultural, and communal harmony programs are conducted. We have executed

- One day awareness and orientation program on NEP 2020 was conducted.
- Around 25% of all the faculties, have undergone Universal Human Values programmes of AICTE
- To promote UNNAT BHARAT Abhiyan the institute has adopted 5 villages, Byrapura, Surdevanapura, Shanaboganahalli, Addiganahalli and Chokkanahalli and got the approval from the AICTE for the same.
- Under KARMA skill development program as per AICTE skilled work force development initiatives we have adopted students at nearby PU college and executed skill development program to train them Microsoft office tools and techniques.
- PARAKH awareness and orientation programmes for students and staff was conducted. and planned to enrol all the students under PARAKH assessment.
- Faculty members are encouraged to submit project proposals. Considerable number of proposals are submitted by our faculties to SERB-DST, VGST etc.,.
- To Increase research publications in reputed peer reviewed refereed Journals, the Institute, offers incentives and cash awards.
- We encourage faculty and students for commercialization and patenting of Research products. Employees are urged to continually research available financial aid opportunities and submit applications to federal, state, and various foreign organizations.

**One Day Orientation Program on NEP 2020 (19-05-2022)****Schedule:****DATE: 19-05-2022****Venue: CSE Seminar Hall.****Timings: 8.30 am to 5.30 pm.****Objectives**

This programme aims to familiarize participants with challenges and changes in higher education in India as brought out in NEP 2020, with particular reference to the teaching and learning methodology, Institutional governance issues and, most importantly, the manner in which this impacts the development of faculty.

Programme Schedule

Time	Description	Speaker
8.30 -9.00 am	Registration on Help Desk	Team @ HKBK
9.30 - 10.00 am	Inaugural with Keynote Session	Dr. Tabassum Ara, Principal, HKBK College of Engineering
10.00 -10.30 am	Tea Break	
10.30 am - 12.30 pm	Current issues in Higher Education and Policy directions as identified in NEP – 2020	Dr. Tabassum Ara, Principal, HKBK College of Engineering
12.30 - 1.30 pm	Lunch Break	
1.30pm – 3.30 pm	Faculty – development and capability building – role of HEI and Faculty	Prof. Sheikh Haroon Safdar Hod EEE
3.30 - 4.00 pm	Tea Break	
4.00 – 5.00 pm	Creating a supportive and student-centric learning environment – role of HEI and faculty	Dr. Bhagawanth Deshpande, Prof. CSE, EPCE, Bangalore
5.00 - 5.30 pm	Feedback and Interactive Session	

Program Coordinator: Dr.S.Sreelakshmi, Assistant Professor
Department of Engineering Mathematics

Hussain Ahmed
IQAC

Prof. Hussain Ahmed
IQAC Head
HKBK College of Engineering
Bangalore - 560045

Tabassum Ara
Principal

HKBK College of Engineering
S.No.22/1, Nagawara
Arabic College Post
Bangalore - 560 045



HKBK COLLEGE OF ENGINEERING UHV CERTIFIED FACULTY LIST

SL.NO	NAME	DEPARTMENT	DURATION
1	Prof. Khallikkunaisa-UHV 5 Day FDP PART-I UHV Refresher-I	CSE	16-20 Aug 2021 25-29 April 2022
2	Prof. Simran Pal UHV 5 Day FDP	CSE	27-01 July 2022
3	Prof. Renzi UHV 5 Day FDP	CSE	27 June-01 July 2022
4	Prof. Bibi Ameena UHV 5 Day FDP	CSE	27 June-01 July 2022
5	Prof. Noor Ayesha UHV 5 Day FDP	ECE	27 June-01 July 2022
6	Prof. VijayLakshmi UHV 5 Day FDP	ECE	27 June-01 July 2022
7	Prof. Zahira Tabassum UHV 5 Day FDP	ECE	8-12 March 2021
8	Prof. Syeda Husna Mohammadi UHV 5 Day FDP	ECE	8-12 March 2021
9	Prof. Sufia Banu UHV 5 Day FDP PART-I UHV Refresher-I	ECE	02-06 Aug 2021 30 Aug-03 Sep 2021
10	Prof. Anees Fathima UHV 5 Day FDP	ECE	8-12 March 2021
11	Prof. Yogananda Raj UHV 5 Day FDP PART-I UHV Refresher-I	ECE	22-26 March 2021 30 Aug-03 Sep 2021
12	Dr. Komala. UHV 5 Day FDP PART-I UHV Refresher-I	ISE	05-09 October 2020 30 Aug-03 Sep 2021
13	Prof. N.R. Gowri UHV 5 Day FDP PART-I UHV Refresher-I	CIVIL	20-24 Dec 2021 25-29 April 2022
14	Prof. Rajalakshmi UHV 5 Day FDP PART-I UHV Refresher-I	CIVIL	20-24 Dec 2021 25-29 April 2022
15	Prof. Kishore S. R UHV 5 Day FDP PART-I UHV Refresher-I	CIVIL	28 Feb-04 March 2022 25-29 April 2022
16	Prof. Sumaiya Banu UHV 5 Day FDP PART-I UHV Refresher-I	HUMANITIES	05-09 October 2020 30 Aug-03 Sep 2021
17	Prof. Umme Salma UHV 5 Day FDP	MATHS	27 June-01 July 2022
18	Prof. Shubha A UHV 5 Day FDP	CHEMISTRY	27 June-01 July 2022


Khallikkunaisa
Chairperson-UHV


Principal
Principal
HKBK College of Engineering
S.No.22/1, Nagawara
Arabic College Post
Bangalore - 560 045

HKBK COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to VTU, Belgaum
Accredited by NAAC



No. 22/1, Near Manyata Tech Park, Nagawara,
Bengaluru - 560045, Karnataka, India
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Fax : +91 80 2544 3813
Email : info@hkbk.edu.in
URL : www.hkbk.edu.in

UNNAT BHARAT ABHIYAN

Chief Patron

Sri. C. M. Ibrahim
Chairman, HKBKGI

Sri. C. M. Faiz Mohammed
Director, HKBKGI

Chairperson

Dr. Tabassum Ara
Principal, HKBKCE

Chairmen

Dr. C. S. Nagabhusana
Professor & HOD-Maths

Committee Members:

Prof. Husna Tabusum.
Assistant Professor - CSE

Prof. Asha PV
Assistant Professor – ECE

Prof. Usman Aijaz
Assistant Professor – ISE

Prof. Vinod Shavare
Assistant Professor – CIVIL

Dr. D. Umadevi
Associate Professor – Maths

Student Coordinators:

Ranit Santra – II ECE B

Nanda Kumar S – II ECE B

Joseph Maxon – III ISE B

Vision

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help and thereby build the architecture of an Inclusive India

Mission

The Mission of Unnat Bharat Abhiyan is to enable higher educational institutions to work with the people of rural India for identifying developmental challenges and evolving appropriate solutions for accelerating sustainable growth. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the developmental needs of rural India.

Objectives

- To build an understanding of the development agenda within Higher Educational institutes and institutional capacity and training relevant to national needs, especially in rural India.
- To re-emphasize the need for field work, stake-holder interactions and to make societal objectives as the basis of higher education.
- To stress on rigorous reporting and useful outputs as central to developing new professions.
- To provide rural India and regional agencies with access to professional resources of the higher education institutes, especially those that have acquired academic excellence in the field of science, engineering and technology, and management.
- To improve development outcomes as a consequence of this research. To develop new professions and new processes to sustain and absorb the outcomes of research.
- To foster a new dialogue within the larger community on science, society and the environment and to develop a sense of dignity and collective destiny



UNNAT BHARAT ABHIYAN (UBA)

a flagship program of Ministry of Education (MoE), GOI
शिक्षित भारत-स्वस्थ भारत- स्वच्छ भारत- स्वावलंबी भारत- संपन्न भारत

ଅଭିଯାନ | ଓଡ଼ିଆ ଶିକ୍ଷା ଓ ସ୍ୱାସ୍ଥ୍ୟ କାର୍ଯ୍ୟକ୍ରମ | ଓଡ଼ିଆ ଶିକ୍ଷା ଓ ସ୍ୱାସ୍ଥ୍ୟ କାର୍ଯ୍ୟକ୍ରମ | ଓଡ଼ିଆ ଶିକ୍ଷା ଓ ସ୍ୱାସ୍ଥ୍ୟ କାର୍ଯ୍ୟକ୍ରମ



Registration

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List of Participating Institutes

Email/AISHE Code RCI State District
Enter Email/AISHE Code Select Karnataka Bengaluru Urban Search Reset

Showing 1 to 1 of 1 matching participating institutes

ID	State	District	Institute Name	AISHE Code	PI Unique Code	Coordinator	Email ID	Adopted Villages	Household Survey Data	Regional Coordinating Institute
1	KARNATAKA	BENGALURU URBAN	H K B K College Of Engineering,BENGALURU	C-1395	PI00004256KA	Dr. Tabassum Ara	hod.aiml@hkbk.edu.in	1. Arakere 2. Ballur 3. Adiganahalli 4. Suradenpura 5. Byrapura		Indian Institute of Science Bangalore



MODROB ASPIRATIONAL - Sanction Letter

F.No.9-18/IDC/MOD- ASP/Policy-1/2021-22

Date: 07.03.2022

To:

The Drawing and Disbursing Officer,
All India Council for Technical
Education, Nelson Mandela Marg,
Vasant Kunj, New Delhi - 110070

Sub: Release of a sum of **Rs.860000/- (Rupees Eight lakh Sixty Thousand Only)** being the 1st installment **Grant-in-Aid** under the scheme (**MODROB- ASP**) for the year **2021-2022** payable during the current financial year **2021-2022- reg.**

Sir/ Madam,

With reference to the proposal submitted by the institute, this is to convey the sanction of the Council for payment of **Rs.1075000/- (Rupees Ten lakh Seventy Five Thousand Only)** as sanctioned Grant-in-Aid under the **Modernization and Removal of Obsolescence Aspirational (MODROB- ASP)** scheme, as per details given below:

1.	Name and address of the Beneficiary Institution:	Director/ Principal/ Registrar, HKBK COLLEGE OF ENGINEERING, # 22/1, NAGAWARA, BANGALORE-560045, Karnataka		
2.	Title of Project:	Modeling and experimental investigation of tensile and fatigue strength of heat treated Al 8090 composites reinforced with titanium diboride and graphene.		
3.	Name of Coordinator:	ZAKAULLA MOHAMED		
4.	Duration of the project:	2 years		
5.	Total Project Cost:	Rs.1175000/-		
6.	Contribution from AICTE, Industry & Institute:	AICTE Rs.1075000/-	Industry Rs.0/-	Institute Rs.100000/-
7.	Total Sanctioned Grant-in-aid from AICTE:	Non-Recurring(85%): Rs.913750/-	Recurring (15%): Rs.161250/-	TOTAL Rs.1075000/-
8.	Amount to be released during the year 2021-22:	Non-Recurring(85%): Rs.731000/-	Recurring (15%): Rs.129000/-	TOTAL Rs.860000/-
9.	Sanctioned grant-in-aid is debatable to:	Major Head 601.18(a) Gen. (Plan Head)		

The contributions from industry and institute (as mentioned in the row 6 of Table above) must reflect in the Receipt & Expenditure Statement in respect of this project, failing which AICTE may not consider proposals under the Scheme in future.

- The amount of the Grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the Grant-in-Aid bill and shall be disbursed to and credited to the account of Director/ Principal/ Registrar of the Institute through RTGS/ PFMS.
- This Grant-in-Aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds

- a. The Principal/ Director of the institute and the Coordinator of the project are hereby requested to verify the correctness of the undermentioned bank account/ RTGS details submitted by them along with the Proposal, in which the grant is being released;

Institute Pan No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	Ifsc Code
AAATK5933C	AXIS BANK	Coxtown Branch	Prestige Lion gate No-6 Mosque Road Bengaluru- 560005	HKBK College of Engineering	Current Account	231010100014030	UTIB0000231

In case of any omission the same should be reported to AICTE immediately.

- b. The sanction is issued in exercise of the powers delegated to the council and other terms & conditions laid down in the guidelines of the scheme.
- c. 80% grant of the sanctioned amount is being released to institution as first installment followed by 20% as reimbursement after Utilization Certificate (UC) and other requisite documents as specified in terms & conditions of MODROB scheme.

II. Maintenance of accounts

- a. The institute shall strictly follow the provisions laid down in the scheme document and this sanction letter. All correspondences related to the project must contain this number along with year of sanction of the project; failing which correspondence will not be entertained.
- b. Funds covered by this grant shall be kept separately and would not be mixed up with other funds, so as to know the amount of interest accrued on the grant from AICTE.
- c. The University/ College/ Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure (list enclosed).
- d. The Council or its nominee shall have the right to check/ verify the account to satisfy that the fund has been utilized for the purpose for it was sanctioned.
- e. The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/ Director/ Registrar shall intimate about the receipt of the grant to AICTE. Any expenditure incurred prior to the issuance of the sanction letter will not be allowed to be adjusted in the grant and if the Institution/ University does not take the project work within one month of the receipt of the grant, the approval shall ipso fact lapse.
- f. After receipt of the grant from AICTE, the Institute shall send a confirmation to AICTE within 2 months of receipt of grant that the sanctioned project has been started/is in progress.

III. Refund of grant by way of a demand draft in favour of Member Secretary, AICTE, New Delhi

- a. If the college/ institute does not have the Letter of Approval (LOA) or Extension of Approval issued by AICTE for the academic year 2021-22, the fund released should be immediately refunded to AICTE with interest accrued thereon.
- b. If project is not started within six months of the issuance of this Sanction Letter, the released amount, along with interest accrued thereon, has to be necessarily returned to AICTE.
- c. It may be ensured that the project is completed within the stipulated time. If the project is not completed in time, no further extension will be granted in any case and institute has to refund the entire amount to AICTE.

- d. As AICTE needs adequate time for depositing the Demand Draft in the bank, the same be immediately dispatched to avoid any lapse of the validity period.

IV. Submission of documents by college/institution after completion of Project/Subsequent years.

The following mandatory relevant documents are required to be submitted by the college/institution within one month of the completion of the project: -

- a. Feedback form in the prescribed proforma.
- b. The **Annual Progress Report (APR)** in the prescribed format along with the original Statement of actual Expenditure in the prescribed proforma duly signed by the Head of the institution and shall be submitted to AICTE not later than one month after completion.
- c. The **Utilization Certificate (UC)** supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the AICTE immediately after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format and GFR-19 shall be submitted to the Council.
- d. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed by a Chartered Accountant (with membership no., full address & stamp). Photocopies of formats are enclosed.
- e. **Program Evaluation Committee (PEC)** is required to be constituted at Institutional level. The constitution of the PEC shall be as under:
 - (i) Principal/Director/Registrar of the Institution (Chairperson)
 - (ii) Two HODs and one subject expert (Members).
 - (iii) Coordinator of the project (Secretary).

The minutes of the meetings are to be submitted to the Council at end of the project along with other mandatory documents.

- f. Project completion report project indicating the activities undertaking, number of students benefited, laboratory works photographs of students, together with their views is to be submitted.
- g. Attested photocopies of supporting vouchers/bills of expenditure incurred for the completion of Project.
- h. Photographs of equipment/ items purchased.
- i. The balance amount of the grant will be reimbursed to the university/institution only on submission of the above documents. On receipt of these documents, the total amount of balance of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be released, as second installment, in favour of the beneficiary institution.

V. General instructions

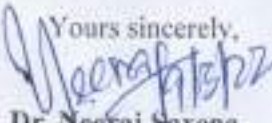
- a. The amount of interest accrued on the grant should be treated as part of the grant to be utilized for that particular project. However, the interest amount accrued along with grant disbursed should not exceed the total grant sanctioned for the project. The Institute receiving the grant should reflect the same in the audited statement of accounts/ utilization certificate and may either refund the interest amount to AICTE or AICTE shall adjust the same in the next installment of grant before its released.
- b. Any unavoidable circumstantial change in the project with respect to name of Project Coordinator for the MODROB project would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.
- c. The grantee shall maintain an audited record of assets acquired wholly or substantially out of the Grant-in-Aid

and a register of assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.

- d. The College/ Institute receiving grant under MODROB is expected to put up a plaque at the main entrance of the Lab/ Department, which has been modernized using the grant. All the equipment procured through the project should be superscribed with AICTE project file number.
- e. The assets acquired wholly or substantially out of grant shall not be disposed or encumbered or utilized for the purpose other than those for which the Grant was given without proper sanction of the AICTE and should at any time the institution cease to function, such assets shall revert to the AICTE.
- f. When the institute ceases to function, it shall take action with respect to equipment/ items procured through AICTE grants as follows:
 - i. It shall be ensured that the project has been completed and all mandatory documents have been submitted for utilization of grant and file has been closed under which the equipment has been procured.
 - ii. The equipment/ items in unserviceable condition are to be disposed off by the institute as per the Government of India rules and the sale proceeds if any, should be sent by Demand Draft in favor of Member Secretary, AICTE, New Delhi.
 - iii. The equipment/ items in working/ serviceable condition shall be transferred in preferential order to:
 - Institute under the same society/ trust/ management.
 - Nearby AICTE approved Government (Degree/ Diploma) institute/ College.
 - iv. The transportation charges for shifting of equipment/ items be borne by borrowing institute.
 - v. AICTE shall be intimated regarding handover/ takeover of the equipment/ items.
- g. The grantee Institution shall observe all financial norms and guidelines as prescribed by the AICTE/ Government of India from time to time. GOI GFR rules (@<https://doe.gov.in/order-circular/general-financial-rules2017>) should be followed during utilization of grant.
- h. The department/ institute is expected to utilize these equipment/ items alongwith others in offering student internship also by registering on the AICTE Internship Portal (@<https://internship.aicte-india.org>). The internships can be offered to students of other institutions also.
- i. As mentioned in the scheme document, the institute must register in I-STEM (Indian Science, Technology & Engineering Facilities Map) (@<https://www.istem.gov.in>).

List of Equipment/ Items approved:

List of Equipment/ Items
weighing balance
Electrical resistance furnace
computerized fatigue testing machine
desktop

Yours sincerely,

Dr. Neeraj Saxena
Advisor - I (IDC)

Copy forwarded for information and necessary action to:

1. **Name and Address of the Coordinator,**
ZAKAULLA MOHAMED
HKBK COLLEGE OF ENGINEERING,
22/1, NAGAWARA, BANGALORE-560045

2. **The Registrar/ Director/ Principal,**
Dr. Bhagyashekar M S
HKBK COLLEGE OF ENGINEERING,
22/1, NAGAWARA, BANGALORE-560045
3. **Guard File**

30/12/22

From,

Dr J. Surendiran
Department of ECE
HKBC College of Engineering
Bangalore

Publication made in
4 IEEE Conferences.

Forwarded

R. Lakshmi
31/12/22

To The Principal,
HKBC College of Engineering
Bangalore

Slip for

1.	7000/-
2.	6000/-
3.	7000/-
	<u>20,000/-</u>

Resp Madam,

Sub:- Research Incentive - Reg

25/1/23

I have presented and published article in
Various IEEE Conference, which are listed below.

1. 4th IEEE International Conference on Cognitive Computing &
Information Processing - CCIP "Prediction of lung Cancer at early stage
using Correlation Analysis & Regression Modelling" - Rs 7,000/-

2. IEEE International Conference on Data Science & Information
System - ICDSIS-22 "Analysis & Detection of Glaucoma from fundus eye
image by CBR & Unsupervised machine learning" - Rs 6,000/-

3. 3rd International Conference on Intelligent Computing Instrumentation & Control
Technology - ICICICT-2022 "Analysis of Neural Networks for Object
Detection using Image Processing Technology" - Rs 5,000 (IEEE Conference)

4. IEEE 1st International Conference on Computational Science &
Technology - ICCST-2022 - "Diagnosis of Diabetes using retinal
Algorithm" - Rs 7,000/-



JSS Mahavidyalaya, Mysuru
JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU



CERTIFICATE

This is to certify that Dr. /Mr./Ms. J. Surendiran
has Participated/Presented a paper Entitled Prediction of Lung Cancer at Early stage
using Correlation Analysis and Regression Modelling
in the Fourth IEEE INTERNATIONAL CONFERENCE held on 23rd and 24th of December 2022 organized by
the Department of Information Science and Engineering and Department of Computer Science Engineering
(AI&ML)

Dr. DAYANANDA P
GENERAL CHAIR,
CCIP-2022

Dr. ANIL BC
HOD AIML

Dr. REKHA PM
HOD ISE

Dr. BHIMASEN SORAGAON
PRINCIPAL, JSSATE-B





JSS Mahavidyapeetha

JSS ACADEMY OF TECHNICAL EDUCATION

JSS Campus, Uttarahalli-Kengeri Road, Bangalore - 560 060

Ph: 080-2861 1994, 2797, 2565

Fax: 080-2861 2706, Email: jssatebangalore@gmail.com

RECEIPT

R.No.

84616

Date

23/12/22

Received with thanks from Smt./Sri.

Dr. J. Suvenderan

a sum of Rs.

7000/-

(Rupees)

Seven thousand only

on account of Deposit/Appn. Fee/Xerox/Breakages/Fines/Misc.

Conference Registration


For JSS ATE



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An Autonomous Institution affiliated to VTU, Belagavi and Recognized by Govt. of Karnataka

Approved by AICTE, Accredited by NAAC, NBA New Delhi

Hassan-573202, Karnataka

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IEEE International Conference on Data Science and Information System ICDSIS - 2022



CERTIFICATE OF APPRECIATION

J. Surendiran

For the paper titled Analysis and Detection of Glaucoma from fundus eye image by Cup to Disc ratio by Unsupervised Machine Learning
presented by J. Surendiran which has been selected as the Best Paper amongst presented papers in the IEEE International Conference on Data Science and Information System (ICDSIS-2022), organized by the Malnad College of Engineering, Hassan, India in association with IEEE Bangalore Section and IEEE Mysore Subsection on 29th-30th July, 2022.

Dr. B. Uma

Organising Chair, ICDSIS-2022
Dean Academic Affairs, MCE, Hassan

Dr. Parameshachari B D

General Chair, ICDSIS-2022
Chair, IEEE Mysore Subsection
Professor and Head, GSSSIETW, Mysuru

Dr. C.V. Venkatesh

General Chair, ICDSIS-2022
Principal, MCE, Hassan

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Surendiran, J.

① Malla Reddy Engineering College for Women, Secunderabad, India

SC 57191663248 ① <https://orcid.org/0000-0001-5502-0920>

23

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Co-authors

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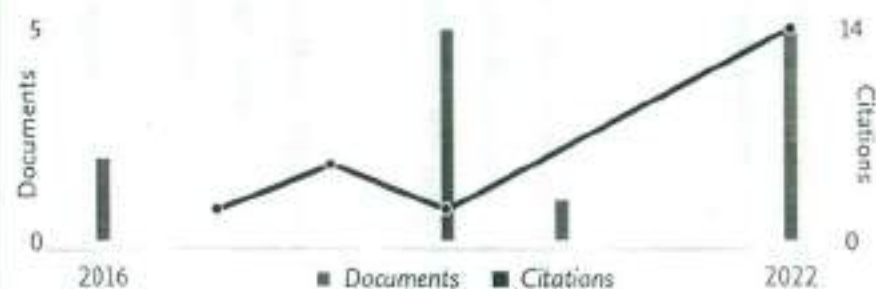
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5 Topics

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Conference Paper

IoT Based Biometric Supported Vehicle User Identification System

Hegde, N., Rashmi, R.S., Azeez, A., Mohamed, J.P., Surendiran, J.

IEEE International Conference on Data Science and Information System, ICDSIS 2022, 2022

Show abstract 

Related documents

0

Citations

Conference Paper

Analysis and Detection of Glaucoma from Fundus Eye Image by Cup to Disc Ratio by Unsupervised Machine Learning

Surendiran, J., Meena, M.

IEEE International Conference on Data Science and Information System, ICDSIS 2022, 2022

Show abstract 

Related documents

0

Citations

Analysis of Neural Networks for Object Detection using Image Processing Techniques

Praveena, R., Babu, T.R.G., Sakthimurugan, K., ...Birunda, M., Surendiran, J.
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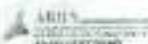
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Prediction of Lung Cancer at Early Stage Using Correlation Analysis and Regression Modelling

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Abstract – In this paper we have developed a machine learning algorithm to detect the lung cancer depending on the symptoms. Using the various regression algorithm of machine learning, we have detected the lung cancer. We have compared the different regression algorithm and found the accuracy among them in predicting the lung cancer by considering the various symptoms like age, gender, and chest pain, shortness of breath, alcohol consumption, chronic disease, swallowing difficulty, anxiety and peer pressure. The regression algorithm like linear algorithm, polynomial regression, logistic regression, logarithmic regression and multiple regression are used to predict the lung cancer and found out the accuracy in predicting the lung cancer. The accuracy in predicting lung cancer using multiple regression is 96% which is more when compared to the other regression. The correlation between the various symptoms and lung cancer is also found out by finding the r square value using different regression machine learning algorithm. From the r square value that is obtained from various algorithm it's identified the lung cancer depends on major symptom like chronic disease.

Key words: Lung cancer, machine learning, Regression Model, Small cell lung cancer

I. INTRODUCTION

The leading cause of cancer-related fatalities globally is lung cancer. Both those who smoke and those who have never smoked are affected. Carcinomas are the term used for lung cancer. Epithelial cells are the source of cancers. Lung cancer develops when lung cells mutate or when tissues experience unchecked cell proliferation. This mutation, which is a permanent alteration to a gene's DNA sequence, may be brought on by a number of factors. People who breathe harmful or poisonous chemicals most often experience this alteration in their lung cells. Ninety percent of it is brought on by smoking. Hereditary factors, automobile pollution, industrial pollution, and exposure to hazardous gases like radon rank second and third in the causes of lung cancer fatalities, respectively [3]. The cells may be extracted from lung secretions, fluid drawn from the thoracic cavity (thoracentesis), a suspicious location

using a needle, or by lung surgery. Small cell lung cancer (SCLC) and non-small cell lung cancer (NSCLC) are the two forms of lung cancer that might be mentioned (SCLC). Compared to small cell lung cancer, this kind of cancer often develops and metastasizes to other regions of the body more gradually. Carcinoid is a third, less typical kind of lung cancer. By examining a sample of lung cells in a lab, lung cancer is really diagnosed. The first test often performed to check for any abnormal lung tissue is a chest x-ray. If anything abnormal is discovered, further tests such a CT scan, MRI, PET scan, or bone scan are performed. Severe chest discomfort, a dry cough, shortness of breath, weight loss, etc. are a few signs. Surgery, chemotherapy, radiation therapy, immune therapy, and other treatments are used to treat lung cancer. Since doctors can only diagnose lung cancer at an advanced stage, the diagnosis process is quite sluggish. Therefore, early prognosis prior to the last stage is crucial to ensuring that the mortality rate may be effectively controlled and certainly avoided. To identify lung cancer in its earliest stages, a variety of detection techniques are utilised, including the use of multiclass SVM classifiers, CAD systems, enhanced deep neural networks, and ensemble classifiers on CT images. Doctors may spot anomalies sooner and quicker with the use of computer-aided diagnosis (CAD) systems, and they can get a second opinion before recommending a biopsy test. [1]

II. LITERATURE SURVEY

Wafaa Alakwaa, Mohammad Nassef, Amr Badr had conducted studies on lung cancer detection. The main strategy was to categorise the segmented CT images as positive or negative for lung cancer by directly feeding them into 3D CNNs. A big 3D lung CT scan reveals the presence of a tiny nodule, which the CAD system detects. Image preprocessing, nodule candidate identification, and malignancy classification make up our ordering scheme. The 3D CT images are first preprocessed utilising segmentation, normalisation, down sampling, and zero-

Diagnosis of Diabetes using Reverting Algorithm

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Abstract— Diabetes is a group of autoimmune diseases characterized by hyperglycaemia leading to progressive injury, dysfunction, and various organ failure. It has affected more than 246 million people worldwide. There is no timely diagnosis for most people. Emerging technologies and techniques can be used effectively and timely in the healthcare industry. The main aim of our research is to analyse the database of children, women and people of different age groups to find a pattern in them. We have used Reverting algorithm to improve the results and make it more edit than the others. We got an accuracy of 84%. In this study we found out whether a person has diabetes or not by developing a new algorithm based on indicators using other factors such as age, blood pressure and blood sugar. The features have been analysed and the major reasons behind the occurrence of diabetes among children and women have been found.

Keywords—Diabetes Prediction, Naïve Bayes, PyCharm, LIGHTGBM, Logistic Regression

I. INTRODUCTION

A. Diabetes *

The world's fifth-biggest disease is diabetes, which is quite possibly the broadest illness on the planet, yet a fix and early symptomatic devices have not been found. It can hurt the body from numerous points of view. Numerous entanglements happen whenever left untreated. It prompts numerous issues like coronary illness, vision misfortune, kidney harm and so on India sees an increment in 5,000 new instances of diabetes every day [1]. In any case, numerous individuals don't comprehend the earnestness of this and it turns out to be more awful when the finding is postponed or left untreated. The dreary interaction of diagnosing the consequences of visiting indicative focuses and counselling a patient's primary care physician. However, the ascent of current strategies tackles this mind-boggling issue.

The indications of diabetes remember decline for vision, weariness, thinning down, regular pee, general contaminations, and so forth

Type 1 Diabetes: Pancreatic beta cells are assaulted by the resistant framework with the goal that they can at this point don't deliver insulin.

Type 2 diabetes: More as of late, the quantity of kids having it has expanded. For this situation, the pancreas produces insulin, yet the body can't utilize it appropriately. As indicated by the CDC, it is assessed that around 90-95% of individuals who are determined to have

diabetes are said to have type 2. Diabetes in youth, otherwise called youth diabetes, happens when the pancreas neglects to create enough of the chemical insulin. Youngsters determined to have the illness should take long lasting insulin infusions and screen glucose, just as various eating regimens. One of the measurements shows that if the dad has type 1, the youngster has a 1/17 opportunity to get it. On the off chance that the mother has type 1 diabetes, there are two cases: If before the age of 25, at that point the youngster has a 1/25 possibility. Also, from that point onward, the kid has one possibility in 100, practically equivalent to any other person. A few measurements demonstrate that

1. On account of a parent with diabetes before the age of 11, the youngster's odds are double the occasions.
2. In the event that the two guardians have a youngster, the chances might be around 1 of every 4
3. What's more, if the parent additionally has type 2, the kid's possibility of creating type 1 diabetes would be 1/2.

II. RELATED WORKS

In this section, there are details on finding the challenges and gaps that exist in current approaches. The main focus of this book review is to highlight areas in the healthcare industry where data and machine learning policies are already being applied.

Data classification techniques (RIPPER classifier, ANN, Decision Tree, and SVM) are used in Fuad Rahman and Marvin Slepian's paper to compare precision, accuracy, sensitivity, error rate, True Positive Rate, and FPR [5].

SunilaGodara's paper by Milan Kumari explains that various approaches can be used to distinguish the diagnosis of medical diabetes by comparing multiple data. Based on the precision of their classification, this is considered [2].

M. Seera noC suggested this paper. P. Lim [6] based on FMM-CARTF (Fuzzy Min-Max neural network, Regression Tree and Random Forest), which achieved PIDD accuracy of 78.39 percent.

A research by D. Sisodia and D. S. Sisodia [3] shows ML category algorithms-SVM, Naïve Bayes and Decision Tree, which are used at an early age to diagnose diabetes.

Submitted

dated 08/09/2022

Dear Madam,

Sub: Information regarding publication of paper and
remuneration for incentive as per research policy.

With reference to the above subject, I would
like to bring to your kind notice that a original
research paper has been published dated 16th
July 2022 in the Indian Geotechnical Journal
having an impact factor of 1.45 which is a
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The paper titled "Sorptive and desorptive response
of divalent heavy metal ions from EICP-treated
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Sorptive and Desorptive Response of Divalent Heavy Metal Ions from EICP-Treated Plastic Fines

Arif Ali Baig Moghal¹ · Romana Mariyam Rasheed² · Syed Abu Sayeed Mohammed³

Received: 23 February 2022 / Accepted: 20 June 2022

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Abstract In this study, enzyme-induced calcite precipitation (EICP)-based treatment for tropical soils contaminated with divalent heavy metals such as cadmium (Cd), nickel (Ni), and lead (Pb) were evaluated for their sorption and desorption capabilities. Heavy metals were taken in three different combinations: a single metal and a combination of two and three metals. They were mixed with locally available kaolinite and montmorillonite soils. EICP-treated soil retained the maximum quantity of Cd among all the heavy metals studied. The Cd retention exceeded Ni and Pb retention. The same was confirmed with desorption studies, relying on aggressive chelants such as ethylene diamine tetra acetic acid (EDTA) and citric acid. Before subjecting the kaolinitic soil to EICP treatment, it was found that the sorption capacity for Cd and Ni was 2.124 and 1.974 mg/g for Cd and Ni, respectively. The sorptive values increased to 3.457 and 4.418 mg/g for Cd and Ni, respectively, after EICP treatment. The retention is attributed to the formation of CdCO₃ and NiCO₃ in the soil matrix, which exhibits very low values of solubility product even in the presence of aggressive chelants. The study establishes that EICP

treatment is a prospective method for remediation of soils laced with heavy metal ions.

Keywords Enzymes · Sorption · Desorption · Calcite precipitation · Heavy metals

Introduction

Soil is considered one of the most worthwhile natural resources, which is continually being destroyed by human activity. Soil is also a medium that accommodates living organisms in its mass and thereby imparts a suitable environment for the food chain to exist. It is reported that each gram of soil can accommodate a billion microorganisms [1]. Other than microbes, soils are also adaptable for fungi, mites, earthworms, arthropods, rodents, and nematodes [1, 2]. These organisms in soil are closely related to the biodiversity above the ground and contribute to nature's biomass [3, 4]. Furthermore, soil for a civil engineer happens to be a material of great importance, as it is a naturally existing medium that transfers the load of the superstructures constructed over them to the lower harder strata. It is also valuable for storing water in the void spaces, thus maintaining aquifers; this contributes to improving the soil fertility and increases the yield of crops. Soils also possess contaminant retention capacity and act like filters sorbing heavy metals and preventing them from draining into the groundwater table [5].

Industrialization, vast construction activity, and substantial mining are a consequence of the population growth and attempt to meet the population's ever-increasing demands. Industrial effluents contaminate land and, as a result, endanger the ecology. Site remediation is expensive since traditional cleanup procedures are outmoded, such as

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To,
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From,
Dr. Anantha M S
Assistant professor,
Dept. of Chemistry,
HKBKCE, Bengaluru

Respected Madam/Sir,

Subject: Regarding publications Reward

With respect to the above cited subject I am writing to claim the research publication rewards for the recently published articles. I have published two articles (in the month of august) in the Scopus indexed international journals as a **first and forth author**. The details of the publications is given below. Please do the needful.*

1. Raj, T.V., Hoskeri, P.A., Hamzad, S., Anantha, M.S., Joseph, C.M., Muralidhara, H.B., Kumar, K.Y., Alharti, F.A., Jeon, B.H. and Raghu, M.S., 2022. Moringa Oleifera leaf extract mediated synthesis of reduced graphene oxide-vanadium pentoxide nanocomposite for enhanced specific capacitance in supercapacitors. Inorganic Chemistry Communications, 142, p.109648. <https://doi.org/10.1016/j.inoche.2022.109648> [Impact Factor: 3.428]

2. M.S. Anantha, Anarghya Dinesh, Manab Kundu, Manviri Rani, Krishna Venkatesh, M.S. Raghu, K. Yogesh Kumar, H.B. Muralidhara, Single step assemble of cerium oxide embellished on layered graphene oxide: An efficacious electrode for supercapacitors and hydrogen evolution reaction, Materials Science and Engineering B, 284 (2022) 115924, <https://doi.org/10.1016/j.mseb.2022.115924> [Impact Factor: 3.407]

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Principal



Short communication

Moringa Oleifera leaf extract mediated synthesis of reduced graphene oxide-vanadium pentoxide nanocomposite for enhanced specific capacitance in supercapacitors

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ARTICLE INFO

Keywords:
Green synthesis
Eco-friendly
RGO/V₂O₅
Energy storage
Supercapacitors

ABSTRACT

Moringa Oleifera leaf extract has been prepared and used as an environmental-friendly reducing agent. Reduced graphene oxide (RGO) has been decorated with vanadium pentoxide (V₂O₅) in presence of Moringa Oleifera leaf extract to generate a RGO/V₂O₅ nanocomposite. Analytical, spectroscopic, and electrochemical characterizations of synthesized V₂O₅, RGO, and RGO/V₂O₅ nanocomposite have been used to evaluate its morphology and structure. The RGO production and recombination with V₂O₅ are confirmed by the Characterization result. RGO, V₂O₅, and RGO/V₂O₅ nanocomposite have been evaluated for their electrochemical performances in supercapacitor applications by using various electrochemical techniques. The enhanced specific capacitance of 905 Fg⁻¹ has been accomplished for RGO/V₂O₅ nanocomposite compared to 146 and 535 Fg⁻¹ for V₂O₅ and RGO, respectively, at 2 mVs⁻¹ scan rate using cyclic voltammetry (CV) technique. Chronopotentiometry technique has also been evaluated and observed the specific capacitance of 380 Fg⁻¹ at a current density of 0.5 Ag⁻¹. RGO/V₂O₅ nanocomposite could be a choice of material in energy storage devices.

1. Introduction

Energy storage systems have garnered a lot of attention in recent decades, owing to increased demand for electronic devices, renewable energy cars and digital communications [1–5]. Because of improved power output, remarkable cycle life, low weight, ease of handling and flexibility supercapacitors have stimulated enormous interest in energy storage systems [6–8]. Supercapacitors could serve as next-generation power sources and probably plays a role in simple handy electronic devices like roll-up screens, tiny bio-medical devices, and wearable electronic gadgets due to their unique features [9–11]. However,

supercapacitors working voltage is restricted for potential implementation, leading to low energy density, which has hindered their prevalent adoption [12].

Supercapacitors have a wide range of uses, from electronic gadgets to electric cars to large-scale storage power grids, thanks to their unique electrochemical features. Supercapacitors are classified into two classes depending on their energy storage phenomena. Class-1 supercapacitors are electrical double-layer capacitors (EDLCs) which stores energy due to electrostatic adsorption/desorption at electrode/electrolyte interface [13,14]. Class-2 is pseudocapacitors that involve fast and reversible Faradaic redox reactions of the active materials [15]. In general,

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Single step assemble of cerium oxide embellished on layered graphene oxide: An efficacious electrode for supercapacitors and hydrogen evolution reaction

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ARTICLE INFO

Keywords:
Nanocomposites
Supercapacitor
Electrodes
Capacitance

ABSTRACT

Single step hydrothermally synthesized the stable cerium oxide (CeO_2) nanorods decorated on layered surface of graphene oxide (GO) flakes. The crystal surface structure of novel CeO_2/GO nanocomposites were analysed by scanning electron microscopy (SEM), energy dispersive X-ray analysis (EDX), X-ray diffraction (XRD), and Brunauer–Emmett–Teller (BET). Electrochemical behavior of the CeO_2 , GO and nanocomposites were explored from cyclic voltammetry (CV), galvanostatic charge/discharge (GCD), and electrochemical impedance spectroscopy (EIS) measurements using as active materials of the electrode. CeO_2/GO nanocomposites displays higher specific capacitance (C_s , 616 Fg^{-1}) than those of individuals at low scan rate of 2 mVs^{-1} by CV studies. Nanocomposites has good stability by exhibiting 82 % of capacitive retention after 10 k cycles at 10 Ag^{-1} . Symmetric device were fabricated using nanocomposite materials for both anode and cathode. The device produces a considerable C_s , specific energy (SE), specific power (SP) values such as 35.3 Fg^{-1} , 23.1 Whkg^{-1} and 5088 Wkg^{-1} respectively. Using symmetric device, continued the cycle life studies at 10 Ag^{-1} for 5 k cycles, and exhibited a capacitance retention of 82 %. With a low overpotential of 112 mV, a small Tafel slope of $77.46 \text{ mV dec}^{-1}$, and long-term stability, the composites showed better HER performance.

1. Introduction

In last decades, a significant improvement in the alternative energy storage/conversion devices, which produces a high power and energy densities creates a great attention to the world, because of the ever growing environmental issues and the upcoming depletion of fossil fuels [1–4]. Subsequently, a sudden development in energy production using sun and wind, at the same time progress in the electric vehicles (EVs) or hybrid electric vehicles (HEVs) by very less emission of CO_2 was taken place. Later origins of renewable energy from the sun and wind often have on-peak and off-peak load variances, while the capacity of EVs/HEVs was in the range of 150–200 miles on a single charge, creating a

strong demand for electrochemical storage devices such as batteries and electrochemical capacitors (ECs). In the developing energy applications, ECs is the one of the solution which produces high power with a reasonably high specific energy (SE). The ECs may capacitive or pseudocapacitive in behavior, either will used for energy storage. In the capacitive (non-Faradaic) process charge separates at the interfaces of the electrode/electrolyte, whereas in the pseudocapacitive (Faradaic) process directly depend on redox reactions taken place at electrode materials. Carbon, carbon derivatives, conducting polymers, and transition metal oxides are among the most widely utilized active materials for electrodes [5,6]. Supercapacitors were used in EVs, portable gadgets, and energy storage systems because of their increased specific power

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Dr. Anantha M S

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Nanostructured MnO ₂ /CeO ₂ composite as anode material for high performance Li-ion battery S Sengupta, MS Anantha, HB Muralidhara, M Kundu Materials Letters 308, 131298	1	2022
Voltammetric Response of Synthesized CuO Nanoparticles Towards Dopamine SR Kiran Kumar, MS Anantha, HB Muralidhara, K Yogesh Kumar Recent Trends in Electrochemical Science and Technology, 169-179		2022
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Dept of ECE

HKRKE, Bangalore.

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ADVANCED ELECTRIC VEHICLE CHARGING INFRASTRUCTURE USING INTERNET OF THINGS

Dr.B.P.Pradeep kumar

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HKBK College of Engineering
Bangalore,India

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Abstract — In this study, an intelligent process-based design for a system to generate and manage Electric Vehicle (EV) charging procedures is provided. The charging of electric vehicles needs to be done in an efficient manner due to the limitations of electrical power distribution. The proposed smart electric vehicle charging station has a number of cutting-edge features, such as the capacity to automatically switch sources based on the source's availability while still maintaining power from several sources. We are employing three sources in this implementation the solar system, the wind system, and the primary supply. According to its priority, the controller will automatically switch the source. The amount of empty slots will be visible to users in the IOT Thing Speak cloud service.

Keywords— Solar Panel, Wind Section, Grid Section, Relay Switching, Node-MCU, Arduino-UNO, Thing Speak.

1. INTRODUCTION

Statistics show that the transportation industry is responsible for more than half of global oil consumption and a quarter of global CO2 emissions, which is one of the elements contributing to the greenhouse effect. Electric vehicles (EVs), which lessen reliance on crude oil and the emissions of pollutants associated to transportation, are seen as an effective part of a sustainable transportation system and are growing in popularity.

With about a fifth of the world's population, India is the second most populous nation in the world. The population was 1,324,171,354 as of the World Population Prospects' 2017 revision. The population doubled to 1.2 billion people between 1975 and 2010. In 1998, India's population surpassed one billion. By 2024, India is anticipated to overtake China as the world's most populated nation. In our nation, when focusing on particular factors—the one we are focusing on is Transportation—the visually impaired people is rarely taken into account or given any attention. Electric vehicles are becoming more and more

popular all around the world as more nations strive to have pollution-free. The charging station uses a PV cell to charge the vehicle using a rechargeable battery, and with the support of IOT, the charging station's availability status can be continuously checked at any time. The supply of conventional energy is steadily running out. Therefore, we must switch from using traditional to non-conventional energy sources. Given here, a combination of there are two types of energy resources: wind and solar energy. This method denigrates renewable energy sources.

Without harming the environment We can provide constant power by employing hybrid power plant. Essentially, this method uses the to produce electricity using in expensively without disrupting the natural balance [1]. The goal of this study is to determine the optimum choice for generating power by reviewing solar energy technology. It is possible to directly or indirectly produce electricity from solar energy. PV modules are used in the direct approach to turn solar energy into electricity. Utilizing concentrated solar power (CSP) facilities like linear Fresnel collectors and parabolic trough collectors, thermal energy is captured using the indirect approach. This study provides a thorough assessment of solar thermal technologies, including flying trough collectors, linear Fresnel collectors, central tower systems, and solar parabolic dishes, and discusses challenges and potential. Additionally, a comparison between PV power producing facilities and solar thermal power plant [2].

IoT-Based Advanced Electric Vehicle Charging Infrastructure

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Abstract – In this paper, an intelligent process-based design is used to create and manage Electric Vehicle (EV) charging processes. Because of the limitations of electrical power distribution, charging electric vehicles must be done efficiently. The recommended smart electric vehicle charging station has modern features such as the ability to switch sources automatically based on the availability of each source while still maintaining power from many sources. We are employing three sources in this implementation: the solar system, the wind system, and the main supply. The controller will switch the source automatically depending on its relevance. Users of the IOT Thing Speak cloud service will be able to view the number of available slots. In this paper, an intelligent process-based design is used to create and manage Electric Vehicle (EV) charging processes. Because of the limitations of electrical power distribution, charging electric vehicles must be done efficiently. The recommended smart electric vehicle charging station has modern features such as the ability to switch sources automatically based on the availability of each source while still maintaining power from many sources. We are employing three sources in this implementation: the solar system, the wind system, and the main supply. The controller will switch the source automatically depending on its relevance. Users of the IOT Thing Speak cloud service will be able to view the number of available slots.

Key words: Solar Panel, Wind Section, Grid Section, Relay Switching, Node-MCU, Arduino-UNO, Thing Speak

I. INTRODUCTION

According to data, the transportation industry accounts for more than half of global oil consumption and a quarter of CO₂ emissions that contribute to global warming. Electric vehicles (EVs), which minimise the demand for crude oil and pollution from transportation, are viewed as an essential component of a sustainable transportation system and are gaining popularity. India is the world's second most populous nation, accounting for almost one-fifth of the worldwide population. There were 1,324,171,354 people living there according to the 2017 World Population Prospects. The population more than doubled between 1975

and 2010, reaching 1.2 billion people. In 1998, India's population surpassed one billion people. By 2024, India is expected to overtake China as the world's most populated nation. When it comes to some elements, such as transportation, the visually impaired are seldom regarded or given any consideration in our nation. Electric automobiles are becoming increasingly widespread all around the world as more governments strive for pollution-free transportation. The charging station's availability status may be continuously checked at any time using IOT. The charging station uses a photovoltaic cell to power the car's rechargeable battery. Conventional energy is becoming scarcer. We must abandon traditional energy sources in order to employ non-conventional energy sources. As a source of energy, a combination of solar and wind energy is employed here. This strategy denigrates renewable energy. We can deliver steady energy without damaging the environment by using hybrid power plants. Essentially, this technology is used to generate electricity in a cost-effective manner while maintaining the natural balance. [1]. The goal of this study is to examine solar energy technology and determine the optimum choice for generating power. Solar energy may be utilised to create electricity either directly or indirectly. PV modules are used in the direct conversion of solar energy to electricity. The indirect technique of obtaining thermal energy employs concentrated solar power (CSP) equipment such as linear Fresnel collectors and parabolic trough collectors. This study includes in-depth evaluations of solar thermal technologies such as flying trough collectors, linear Fresnel collectors, central tower systems, and solar parabolic dishes, as well as explanations of their benefits and drawbacks. Furthermore, a comparison of solar thermal power plants and facilities that generate PV energy [2]. long-lasting energy sources that do not harm the environment With the aid of a hybrid energy system, we can deliver on-demand electricity. We've combined three energy systems to provide a consistent supply of power. A vertical wind turbine converts wind energy into electricity. Solar

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A New Series of 1,3,4-Oxadiazole Linked Quinolinyl-Pyrazole/Isoxazole Derivatives: Synthesis and Biological Activity Evaluation

V. Basavanna^a, M. Chandramouli^a, C. Kempaiah^b, U. K. Bhadracharya^c, Chandra^d,
N. S. Lingegowda^a, Shridevi Doddamani^e, and S. Ningaiah^{a,*}

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Received October 11, 2020; revised October 21, 2021; accepted November 8, 2021

Abstract—A series of 1,3,4-oxadiazole bridged pyrazole/isoxazole bearing quinoline derivatives has been designed and synthesized by a clean and convenient method. Structures of the newly synthesized compounds have been confirmed by FTIR, ¹H and ¹³C NMR, and HRMS spectral data. The titled compounds have been evaluated for their molecular docking guided antimicrobial and anti-inflammatory activity. One of 1,3,4-oxadiazole bridged quinolinyl-pyrazole derivatives has interacted efficiently with *E. Coli* protein (PDB file: 1KZN), and has been characterized by good antimicrobial activity against the majority of the tested pathogens. Another product has exhibited excellent anti-inflammatory activity.

Keywords: 1,3,4-oxadiazole, pyrazole, isoxazole, quinoline, molecular docking, antimicrobial, anti-inflammatory

DOI: 10.1134/S1070363221110128

INTRODUCTION

Quinoline and its derivatives are considered as versatile prodrugs, among those are antimalarial quinine (A) [1], chloroquine (B), and hydroxychloroquine (C)

(Fig. 1). The latter one is currently under clinical trials as a repurposed drug for COVID-19 [2].

Currently, many quinoline-containing drugs are available on the market [3, 4]. Recently, three

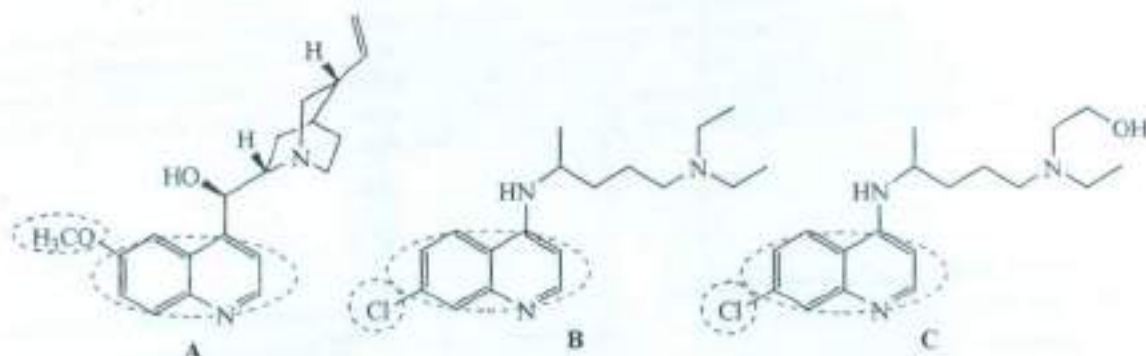


Fig. 1. Samples of promising quinoline alkaloids.

From

Dr. J. Surendiran,
Department of ECE,
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To

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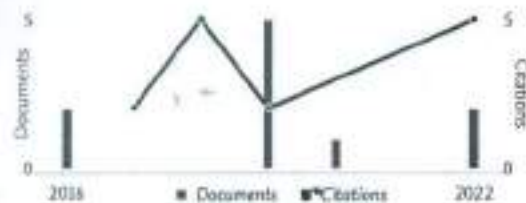
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Segmentation of Optic Disc and Cup Using Modified Recurrent Neural Network

J. Surendiran,¹ S. Theetchenya,² P. M. Benson Mansingh,³ G. Sekar,³ M. Dhipa,⁴
N. Yuvaraj,⁵ V. J. Arulkarthick,⁶ C. Suresh,⁷ Arram Sriram,⁸ K. Srihari⁹,
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Glaucoma is one of the leading factors of vision loss, where the people tends to lose their vision quickly. The examination of cup-to-disc ratio is considered essential in diagnosing glaucoma. It is hence regarded that the segmentation of optic disc and cup is useful in finding the ratio. In this paper, we develop an extraction and segmentation of optic disc and cup from an input eye image using modified recurrent neural networks (mRNN). The mRNN use the combination of recurrent neural network (RNN) with fully convolutional network (FCN) that exploits the intra- and interslice contexts. The FCN extracts the contents from an input image by constructing a feature map for the intra- and interslice contexts. This is carried out to extract the relevant information, where RNN concentrates more on interslice context. The simulation is conducted to test the efficacy of the model that integrates the contextual information for optimal segmentation of optical cup and disc. The results of simulation show that the proposed method mRNN is efficient in improving the rate of segmentation than the other deep learning models like Drive, STARE, MESSIDOR, ORIGA, and DIARETDB.

1. Introduction

Glaucoma is a long-term eye condition in which the optic nerve is gradually weakened due to increased pressure within the eye. A condition known as glaucoma affects around 60 million people globally and is the second biggest cause of blindness after cataracts. Glaucoma will affect an estimated 80 million individuals worldwide by 2020, according to current estimates [1]. Glaucoma can permanently

damage the visual nerve if it is not detected early enough. Early detection of glaucoma is critical to ensuring that patients receive effective first-line medical treatment [2–4].

Finding the cup-to-disc ratio is a difficult, time-consuming, and expensive job that currently done solely by experts. Because of this, automated methods of glaucoma image detection and assessment are critical. To automatically detect the optic nerve head image, there are two methods [5]. Using image feature extraction for binary categorization



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The breakthroughs in public healthcare infrastructure have resulted in a large influx of highly sensitive and critical healthcare information. The application of sophisticated data analysis techniques can aid in the early detection and prevention of a variety of fatal diseases. Diabetes can cause heart disease, renal disease, and nerve damage, all of which are life-threatening complications of the disease. The goal of this work is to identify, detect, and forecast the emergence of diabetes in its earliest stages by employing machine learning techniques and algorithms. When it comes to diabetes classification, an MLP is used. The experimental evaluation was carried out using the PIMA Indian Diabetes dataset. According to the study findings, MLP outperforms the competition in terms of accuracy, with an accuracy rate of 86.08%. Following this, a comparison of the suggested technique with the existing state of the art is carried out, proving the flexibility of the proposed approach to a wide range of public healthcare applications.

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6.	A Wearing article for navigating Visually Impaired using Machine learning	Dr.Komala C R Mrs Sonia Maria Dsouza	202241022469	ISE CSE
7.	Trial boost performance evaluation of IOT with Block Chain	Dr. Balaji Vijayan Venkateswaralu	202241021789	ISE
8.	A System and method for Preindication of Stock Price Using Prolonged Petite-Stretch Memory (PPSM) Algorithm	Dr.Komala C R Dr. A. Syed Mustafa Prof. Asghar Pasha, Prof. Soumyashree P Prof. Sneha	202241022539 A	ISE
9.	A System for Junction Based Angular Routing in Vehicular Ad Hoc Networks (Vanet)	Dr.Komala C R Mrs Sonia Maria Dsouza	202241020096	ISE CSE
10.	A Novel method IoT based Smart Saline Bottle for Health Care System	Dr. Balaji Vijayan Venkateswaralu	202241001899	ISE
11.	Surveilling Of Crises Implications in Green House Effect and Measuring Frost Using Iot with Ai Method	Dr. Balaji Vijayan Venkateswaralu	202141061446	ISE
12.	IoT and AI based Intelligent Rover to Discover Habitable-Zones on Planets	Prof. Priyanka K	202141053443 A	ISE
13.	Iot And Wireless Based Intelligent E-vehicle with Self Power Generating Optimal Power Management	Dr.Komala C R Mrs Sonia Maria Dsouza	361542-001	ISE CSE
14.	Utpatti – Farmers Online	Prof. Priyanka	202141034018 A	ISE

	Market Application	K		
15.	Research on Block-Chain and Supply Chain based E-bidding System	Mr.Vadivel.R	202241040793	CSE
16.	Block-chain based Cloud Storage System	Mr.Vadivel.R	202241021032	CSE
17.	Artificial Intelligence based Video surveillance system using Open CV and Deep Learning	Mr.Vadivel.R	202141057303	CSE
18.	Automation in agriculture using iot and machine learning	Dr.Sharada	202141057303	CSE
19.	Alarm system for swimming pool using artificial intelligence and methods thereof	Dr.Sharada	202041052006	CSE
20.	Trespassers detection system for agriculture fields using artificial intelligence & methods thereof	Dr.Sharada	202041047576	CSE
21.	Wild life intrusion detection System empowered with Artificial intelligence	Dr.Sharada	2021100064	CSE
22.	A Methodology for Memory unit	Mrs.Najmusher	202241023088	CSE
23.	IOT and wireless based intelligent E-vehicle with self-power generating E-power management	Mrs Sonia Maria Dsouza	361542-001	CSE
24.	An Innovation Identification For Genetic Expression of Complex Diseases using Artificial Intelligence Based Machine Learning Model	Mrs Sonia Maria Dsouza	202241022476	CSE
25.	Trail boost performance evaluation by integration of IOT with blockchain	Dr.Deepak NR	202241021789	CSE
26.	A system and method for prediction of stock prices using prolonged petite-stretch memory (PPSM) algorithm	Ms.Sharon	202241022539	CSE
27.	An Innovation Identification For Genetic Expression of Complex Diseases using Artificial Intelligence Based Machine Learning Model	Dr.Deepak NR Ms.Ayesha Anjum Mrs.Jenita J Ms.Simran Pal	202241027286	CSE


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Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 102 169

Bezeichnung:

Vielseitiges Nahbereichs-Fernerkundungssystem für die
Präzisionslandwirtschaft

IPC:

G01C 11/02

Inhaber/Inhaberin:

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Tag der Anmeldung:

22.04.2022

Tag der Eintragung:

12.05.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 12.05.2022





Bibliografische Daten

Dokument DE202022102169U1 (Seiten: 8)


Dokument 1/1



BIBLIOGRAFISCHE DATEN DOKUMENT DE202022102169U1 (SEITEN: 8)

INID	Kriterium	Feld	Inhalt
54	Titel	TI	[DE] Vielseitiges Nahbereichs-Fernerkundungssystem für die Präzisionslandwirtschaft
71/73	Anmelder/Inhaber	PA	Ara, Tabassum, Dr., Karnataka, Bangalore, IN ; Bathija, Rajesh Kumar, Dr., Rajasthan, Jaipur, IN ; Bhardwaj, Deepesh, Dr., Madhya Pradesh, Gwalior, IN ; Cangan, Barbara, Prof., Rajasthan, Jaipur, IN ; Cangan, Stany Thomas, Rajasthan, Jaipur, IN ; Cangan, Tanya Stany, Rajasthan, Jaipur, IN ; Cholli, Nagaraj G, Dr., Karnataka, Bengaluru, IN ; Deshpande, Manish Raghunathrao, Dr., Maharashtra, Nanded, IN ; Pratyush, Kumar, Dr., Maharashtra, Dhule, IN ; Shukla, Arvind Kumar, Dr., Uttar Pradesh, Moradabad, IN
72	Erfinder	IN	
22/96	Anmeldedatum	AD	22.04.2022
21	Anmeldenummer	AN	202022102169
	Anmeldeland	AC	DE
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33	Priorität	PRC	
31		PRN	
32		PRD	

INID	Kriterium	Feld	Inhalt
51	IPC-Hauptklasse	ICM	G01C 11/02 (2006.01)
51	IPC-Nebenklasse	ICS	B64D 47/08 (2006.01) H04N 5/232 (2006.01) H04N 7/18 (2006.01)
	IPC-Zusatzklasse	ICA	
	IPC-Indexklasse	ICI	
	Gemeinsame Patentklassifikation	CPC	➤ B64U 2101/30 ➤ H04N 7/183
	MCD-Hauptklasse	MCM	G01C 11/02 (2006.01)
	MCD-Nebenklasse	MCS	B64D 47/08 (2006.01) H04N 5/232 (2006.01) H04N 7/18 (2006.01)
	MCD-Zusatzklasse	MCA	
57	Zusammenfassung	AB	[DE] Vielseitiges Nahbereichs-Fernerkundungssystem (100), umfassend: einer Luftbildkamera (1) zum Erfassen von Erntegutbildern von einem unbemannten Luftfahrzeug in der Landwirtschaft, wobei die erfassten Erntegutbilder in ein elektrisches Signal umgewandelt werden, das mit einem HF-Trägersignal kombiniert wird; einen RF-Sender (2), der so konfiguriert ist, dass er das elektrische Signal mit Hilfe des RF-Trägersignals an das Hauptkontrollbüro sendet, wobei der RF-Sender (2) ein FM-Signal unter Verwendung eines Hochfrequenzoszillators erzeugt; eine RF-Empfängerantenne (3), die so konfiguriert ist, dass sie das FM-Signal von der RF-Sendeantennenseite empfängt, wobei die RF-Empfängerantenne (3) das elektrische Signal zur weiteren Filterung und Verstärkung trennt; ein Raspberry-Pi-Mikrocontrollersystem (4), das so konfiguriert ist, dass es eine Schnittstelle mit dem elektrischen Signal bildet, das für die weitere Verarbeitung von Bildsignalen verwendet wird, wobei das elektrische Signal in Erntebilder umgewandelt wird, die in einem Personalcomputersystem (8) überwacht und für weitere Forschungsanalysen in der

INID	Kriterium	Feld	Inhalt
			Präzisionslandwirtschaft durch einen Kontrollbeamten bereitgestellt werden.
56	Entgegengehaltene Patentdokumente/Zitate, in Recherche ermittelt	CT	
56	Entgegengehaltene Patentdokumente/Zitate, vom Anmelder genannt	CT	US020130325346A1 
56	Entgegengehaltene Nichtpatentliteratur/Zitate, in Recherche ermittelt	CTNP	
56	Entgegengehaltene Nichtpatentliteratur/Zitate, vom Anmelder genannt	CTNP	
	Zitierende Dokumente		Dokumente ermitteln
	Sequenzprotokoll		
	Prüfstoff-IPC	ICP	B64D 47/08 ; H04N 5/232

Sie befinden sich hier > [DEPATISnet-Startseite](#) > [Trefferliste](#) > Bibliografische Daten

[Impressum](#) | [Datenschutz](#) | [Erklärung zur Barrierefreiheit](#)

(54) Title of the invention : Artificial Intelligence Based Wind Solar Diesel Hybrid Electric Vehicle

<p>(51) International classification :B60W0010060000, G06N0003080000, B60W0050000000, B60W0020110000, G05B0013020000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. S. Raviraja Address of Applicant :Professor and Dean, Faculty of Computer Studies & IT, University of Garden City, Khartoum, Sudan, Principal Scientist, Royal Research Foundation (R), Mysore, India -----</p> <p>2)Dr. Bharathi P. T 3)Dr. Prathik Jain S 4)Mr. Abhishek A R 5)Mr. Chandru B G 6)Dr. Manish Shrimali 7)Dr. Tabassum Ara 8)Mr. Shoaib Kamal 9)Dr. Sanjana Prasad 10)Mr. Ayan Banik Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. S. Raviraja Address of Applicant :Professor and Dean, Faculty of Computer Studies & IT, University of Garden City, Khartoum, Sudan, Principal Scientist, Royal Research Foundation (R), Mysore, India -----</p> <p>2)Dr. Bharathi P. T Address of Applicant :Assistant Professor, Department of Master of Computer Applications, Siddaganga Institute of Technology, Tumakuru, Karnataka 572 103, India -----</p> <p>3)Dr. Prathik Jain S Address of Applicant :Assistant Professor, Department of Aeronautical Engineering, Dayananda Sagar College of Engineering, Bengaluru, Karnataka 560078, India -----</p> <p>4)Mr. Abhishek A R Address of Applicant :Senior Executive, Department of Wearhouse, Flipkart, Founding member, Royal Research Foundation, Mysuru, Karnataka, India -----</p> <p>5)Mr. Chandru B G Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Rao Bahadur Y Mahabaleswarappa Engineering College, Ballari, Karnataka 583104, India -----</p> <p>6)Dr. Manish Shrimali Address of Applicant :Associate Professor, Department of Computer Science and Information Technology, Janardan Rai Nagar Rajasthan Vidyapeeth (Deemed to be University) Udaipur, Rajasthan 313001, India -----</p> <p>7)Dr. Tabassum Ara Address of Applicant :Professor and Head, Department of Artificial Intelligence and Machine Learning, HKBK College of Engineering, Bengaluru, Karnataka, 560046, India -----</p> <p>8)Mr. Shoaib Kamal Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, MVJ College of Engineering, Bengaluru, Karnataka 560067, India -----</p> <p>9)Dr. Sanjana Prasad Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, HKBK College of Engineering, Bengaluru, Karnataka 560045, India -----</p> <p>10)Mr. Ayan Banik Address of Applicant :Student, National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata, West Bengal 700106, India -----</p>
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(57) Abstract :

A control technique for a hybrid electric vehicle that includes an electric motor, a lithium-ion battery, and an internal combustion engine is described in this invention. The control technique, which uses an adaptive control unit with an artificial neural network, increases fuel efficiency and decreases emissions while maintaining enough acceleration under various driving circumstances. On a pre-processed training set based on the highest fuel economy of several control techniques and varied driving profiles, the artificial neural network is taught to recognize patterns in the data. A training algorithm and a learning algorithm are used in the artificial neural network training. Additionally, the invention provides a method of running a hybrid electric vehicle that employs an adaptive control technique that is implemented via an artificial neural network.

No. of Pages : 22 No. of Claims : 6



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021103477

The Commissioner of Patents has granted the above patent on 16 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

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Shaista Farheen of II Semester, M.Sc., Department of Elektrotechnik u. Informationstechnik, (KIT) Karlsruhe Institute of technology South Campus Kaiserstraße 12, Karlsruhe 76131 Germany

Title of invention:

A METHOD AND SYSTEM FOR REMOTE MONITORING OF PATIENTS BY WIRELESS BODY AREA NETWORK (WBAN)

Name of inventor(s):

Tarannum, Suraiya and Farheen, Shaista

Term of Patent:

Eight years from 19 June 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 16th day of March 2022

Commissioner of Patents

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241022469 A

(19) INDIA

(22) Date of filing of Application :15/04/2022

(43) Publication Date : 06/05/2022

(54) Title of the invention : A Wearing article for navigating Visually Impaired using Machine Learning

(51) International classification	:G06K0009000000, G06K0009620000, G09B0021000000, G08B0017100000, A61H0003060000	(71)Name of Applicant : 1)Dr. Komala C R Address of Applicant :Associate Professor, ISE Department, HKBK College of Engineering, Nagavara Bangalore-560045 ----- 2)Dr. R. Aruna 3)Mrs. Vidy R Pai 4)Mrs. Sipra panigrahi 5)Mrs. Suchethana H C 6)Mrs. Sonia Maria D'souza Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor : 1)Dr. Komala C R Address of Applicant :Associate Professor, ISE Department, HKBK College of Engineering, Nagavara Bangalore-560045 -----
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(87) International Publication No	: NA	3)Mrs. Vidy R Pai Address of Applicant :Assistant Professor, CSE Department BMS Institute of Technology and Management, Yelahanka, Bangalore-560064 -----
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Filing Date	:NA	

(57) Abstract :

The present invention discloses a wearing article for navigating visually impaired using machine learning. The working of the system is initiated by using a camera captures the image, the image undergoes pre-processing, and required features are extracted. Depending upon the features extracted the image is sent to the respective classification module like object recognition, face recognition, pothole detection, or text to speech. Once the captured image has been recognized by the respective module, the speech output of the respective module will be obtained. Raspberry Pi has an inbuilt GPS and GSM which provides location and shares the information to the guardian through GSM. A smoke sensor is used in case of fire. In the present invention, the integration of object recognition, face recognition, text to speech, pothole detection, and smoke sensor with raspberry pi. The raspberry pi has an inbuilt camera. The camera captures the image, pre-processes it, and extracts the required features, later they are classified into different classifiers based on applications that are object recognition, face recognition, text speech, or pothole detection. Based on the results from these modules we get speech output. GPS provides location and this location is sent to the guardian using GSM.

No. of Pages : 29 No. of Claims : 6



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Department of Industrial Policy & Promotion,
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Application Details

APPLICATION NUMBER	202241021789
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/04/2022
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TITLE OF INVENTION	TRIAL BOOST PERFORMANCE EVALUATION BY INTEGRATION OF IOT WITH BLOCKCHAIN
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/04/2022

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241022539 A

(19) INDIA

(22) Date of filing of Application : 16/04/2022

(43) Publication Date : 29/04/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR PREDICTION OF STOCK PRICES USING PROLONGED PETITE-STRETCH MEMORY (PPSM) ALGORITHM

(51) International classification : G06Q0030020000, G06Q0040060000, G06N0003080000, G06Q0040040000, G06N0003040000
(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 system discloses a system and method for prediction of stock prices using prolonged petite-stretch memory (PPSM) algorithm. The present invention provides, but not limited to, long short-term memory PPSM to predict the accuracy level of the share in trade-in economic marketing period sequence of the amount of a particular portion. PPSM is one of the wealthy Cyclical Sciatic Reticule (CSR) architectures. PPSM is required to analyze the series of problems from the past data and then come up with prediction values. This model considers the previous equity stock price of an organization price. Share price predicting systems become an essential device to store buyers and sellers. The deep learning PPSM for share value predicting where incorporates the news articles with hiding messages and integrates news sources through various privacy mechanisms the proposed PPSM scheme reduces predicting level error and increases the robustness. Accompanied Drawing [FIG.1]

No. of Pages : 29 No. of Claims : 9

(54) Title of the invention : A SYSTEM FOR JUNCTION BASED ANGULAR ROUTING IN VEHICULAR AD HOC NETWORKS (VANET)

(51) International classification :H04W0084180000, H04W0040200000, H04W0040240000, H04W0040300000, H04L0012751000

(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. Komala C R**Address of Applicant :Associate Professor, ISE Department
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Point College of Engineering and Technology, Bidarahalli
Bangalore-560049 -----**(57) Abstract :**

[030] The present invention discloses a system for junction based angular routing in vehicular Ad Hoc networks (VANET). The present JBAR system is to vanquish the communication overload by decreasing the number of advertise packets over the pathway to the target so that JBAR can be opportunely used as a VANET routing protocol by associating enhanced data transmission ratio. JBAR pathway is devised for the topography depicted in figure 1 as knob1 knob 4, knob 4 knob 8 and knob 8 knob 9 and the originated message hello is turned up at target knob 9. JBAR path devise convention decreases the number of Path Appeal (PAPL), Path Reply (PREP) and PERR (Path Error) packets than the existing reactive protocols and this is done by using angular deviation technique with GPS system. Accompanied Drawing [FIG. 1]

No. of Pages : 28 No. of Claims : 7



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

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Application Details

APPLICATION NUMBER	202241001899
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/01/2022
APPLICANT NAME	1 . S ARUN 2 . Sanjeet Pandey, Dr Rammanohar Lohia Avadh University 3 . Dr. Vineet Kumar Singh, Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University 4 . Ramesh Mishra, IET Dr Rammanohar Lohia Avadh University 5 . Dr Lakhvinder Kaur, Manav Rachna International Institute of Research and Studies 6 . Dr. Balaji Vijayan Venkateswaralu, HKBK College of Engineering 7 . Ms. Boomija, Prathyusha engineering college 8 . E U INIYAN, Prathyusha Engineering College 9 . William Andrews. J, S. A. Engineering College 10 . K. SHILPA, Prathyusha engineering college 11 . Thayalaraj Christopher Jeyakumar, The American College 12 . Rupal. sengar, Research scholar, Jayot Vidhyapeeth Women University 13 . Awadhesh Kumar Maurya, Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University
TITLE OF INVENTION	A Novel method IoT based Smart Saline Bottle for Health Care System
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--



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GEOGRAPHICAL INDICATIONS

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Application Details	
APPLICATION NUMBER	202141061446
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/12/2021
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TITLE OF INVENTION	SURVEILLING OF CRISES IMPLICATIONS IN GREEN HOUSE EFFECT AND MEASURING FROST USING IOT WITH AI METHO
FIELD OF INVENTION	MECHANICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/01/2022

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/11/2021

(21) Application No.202141053443 A

(43) Publication Date : 10/12/2021

(54) Title of the invention : IoT and AI based Intelligent Rover to Discover Habitable-Zones on Planets

(51) International classification :H04L0029080000, G06N0003000000, G06N0020000000, G06N0005020000, B64G0001160000
(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 :

Life. It's the one thing that, so far, makes Earth unique among the thousands of other planets, says NASA. Ever since the discovery of other planets and star systems, the planetary scientists, helio-physicists, astrophysicists have been continuously searching for life on those planets. The discovery included many space missions, sending astronauts, rovers, robots etc to search for the existence of life, or the conducive environments which can harbor life, based on the vital signs of habitable zones like temperature, pressure, gases, water, moisture, chemical signs or biosignatures. Hence, we propose an Internet of Things (IoT) and Artificial Intelligence (AI) based intelligent rover to discover favorable conditions for the existence and sustenance of life on target planets. The use of these rovers in space expeditions does not require human astronauts, thereby, saving many lives during dangerous missions. The adoption of advanced technologies like Robotics, IoT and AI in space research, not only accelerates the discovery of such habitable-zones but also, it is cost effective, time saving and accurate. The rover integrates two functional modules namely IoT module and AI module. The IoT module is designed using several sensors, a micro controller, a communication module, and cloud storage. The AI module is implemented by using Logical regression and Classification. The sensor data like temperature, pressure, humidity and light intensity are processed by the micro controller chip (NodeMCU) and then sent to cloud in a csv format. A training model based on AI is created and tested using existing data sets and is then subjected for prediction using live data feeds. This rover model can also be applied to study life on earth, weather predictions, pollution control and in smart agriculture as well. Keyword: Intelligent Rover, Smart Rover, IoT, AI, Exo-Planets, Habitable-Zones.

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(57) Abstract :

Electric devices, such as cars, need a mechanism to wirelessly collect, utilize, charge, and utilize the transmitted power for operation with IoT technology. A method and system for efficient power distribution via wireless methods are needed. Also needed are a system and method for wireless power distribution for vehicles. It's a hybrid, simpler, and less expensive approach to power gadgets like cars, so the devices can keep working while they're being charged or recharged.

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(54) Title of the invention : Utpatti- Farmers Online Market App

(51) International classification	:G06Q0030060000, G06Q0050020000, G06Q0010060000, G06Q0030020000, G06Q0040040000	(71)Name of Applicant : 1)Subramanya S G Address of Applicant :S/o Gopinath Rao D, Soppahalli, Dibbur Post, Chikkaballapur Taluk & District - 562 101 Karnataka India 2)Priyanka K
(31) Priority Document No	:NA	(72)Name of Inventor :
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(57) Abstract :

The farmer is the only man in our economy who buys everything at retail, sells everything at wholesale, and pays the freight both ways said John F. Kennedy. Farmers are the backbone of any growing economy. The share of agriculture in gross domestic product (GDP) has reached almost 20 per cent for the first time in the last 17 years, making it the sole bright spot in GDP performance during 2020-21, according to the Economic Survey 2020-2021. But The Farmer's financial condition remained pathetic leading to debts and suicides. There are so many reasons for this pathetic condition of our farmers starting from the stage of tilling to selling of their produce in the wholesale market. Most common reasons are low productivity due to crop diseases, unexpected weather changes, adultery of seeds and saplings, lack of awareness of the agricultural schemes, poor market regulations and infrastructure deficiencies, post-harvest losses due to collapsing of farm commodity prices in the market etc. But the most serious problem is complex agriculture supply chain in between the farmer and the consumer like Agri-Food processing industries, Wholesale buyers and distributors, Retail shops etc. The farmer has to sell his farm produce to cheaper prices, sometimes even lesser than the overall investment on the crop. At the other end the consumers have to pay hefty prices for the same. The reforms in the agricultural sector were more overdue than even the labor reforms as the existing laws kept the Indian farmer enslaved to the local Mandi (wholesale market) and their rent-seeking intermediaries according to the Survey. The proposed system Utpatti Farmers Online Market App* based on producer to consumer (P2C) model developed using Android for helping the farmers, starting from the stage of cultivation till selling their farm produce through online. The mobile app includes features like weather forecasts; information about agriculture supporting schemes by state/central government and most importantly it allows farmers to sell their farm produce directly to the consumers/buyers, thereby removing intermediaries like commissioning agents, brokers, mandi (wholesale market) owners in the supply chain, who usually buy for cheaper prices from farmers and sell them for much higher prices to the consumers. Thus the app cuts down huge price margin between the farmer (producer) and the buyer (consumer) yielding better profits to both of them. The application also helps farmers to be aware and increase productivity by using features like weather forecasting, agriculture schemes by state & central government.

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