SKCET Buzz

07th - 13th OCTOBER 2023

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S&H | RESEARCH CENTRE RECOGNITION

We are euphoric to share that Department of **Information Technology** and **Science & Humanities (Physics)** are recognized as Research Centres by Anna University, Chennai to offer Ph.D (by Research) programmes. This recognition also facilitates the development of contemporary and unique research initiatives in the present Digital Industry.

Our proud Anna University recognized supervisors are:

- Dr.M.Rajkumar, Professor, IT SKCET
- Dr.J.Granty Regina Elwin, Associate Professor, IT, SKCET
- Dr. U. Barakkath Nisha, Associate Professor, IT, SKCET
- Dr. I Pradeep, Associate Professor, S&H, SKCET
- Dr. J Jayaprakesh, Assistant Professor, S&H, SKCET

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SKCET | OLIRUM TAMILNADU - MILIRUM TAMIZHARGAL

Under the Chairmanship of Hon'ble Chief Minister of Tamilnadu Olirum Tamilnadu - Milirum Tamilzhargal programme was organized at Anna Centenary Library, Kotturpuram on 2.10.2023.

The programme was telecast to the students of Sri Krishna College of Engineering and Technology as directed by Higher Education Department of Tamilnadu.

SKCET | HIGHER EDUCATION CELL

To enhance the learning experience and to support the academic aspirations of the engineering students, **GradSquare Organization**, renowned for its commitment to educational excellence, organized a higher education awareness camp on 09.10.2023 and has also gifted a comprehensive collection of GATE study materials, to Venkatram Learning Center, to enrich the resources available to our students. The study materials encompass a wide range of subjects including engineering disciplines, mathematics, and general aptitude. The materials are not merely a gift to our library but a gift to the dreams and aspirations of countless engineering students.

SKCET | STUDENT COUNCIL - INDIAN POST CAMP

The Student Council of SKCET, in collaboration with India Post, conducted a Financial Inclusion Camp that provided valuable assistance to students, staff, and the general public. This efficient camp had zero waiting time and required no documents, resulting in 137 beneficiaries receiving its benefits.

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CSBS | ICT ACADEMY YOUTH TALK 2023

Hiba Hadiya, **Third** year student from the Department of **Computer Science and Business Systems** has secured **Second** place in the ICT Academy Youth Talk 2023, **Regional Finals** held at Hindustan Arts and Science College.

Her articulate presentation resonated with both the audience and the esteemed panel of judges, earning her the well-deserved place in the competition.

CSBS | NATIONAL HANDLOOM FASHION SHOW

Shwetha D, student of **Third** year **CSBS** has been selected as a **Handloom Ambassador** and **Trisha D,** student of **Third** year CSBS and **Anushna Shri Vetri**, student of **Final** year CSBS have participated in the **Handloom Fashion Show Season-6** organized by People's Seva Centre at Sri Krishna College of Engineering and Technology, Coimbatore on 7th August 2023.

MECH | MEQUEST 2K23

Two students team **'REBELS'** and **'RUT RIDERS'** from the Department of **Mechanical Engineering** participated in **MEQUEST 2k23**, a national level technical symposium, held at Sri Ramakrishna Engineering College on 06.10.23. The team '**REBELS'** clinched overall **First** prize of Rs 10,000/- and the team **'RUT RIDERS'** has won '**Best Innovation Award'** with a cash prize of Rs.3000/-. The teams were mentored by **Mr. N. Ramachandran**, Assistant Professor, Mechanical Engineering.

Team name : REBELS **Team Members** 1. Akilesh (IV Mech) 2. Jothiprakash (IV Mech) 3. Sri Shanmugavel (IV Mech) 4. Pavan Kumar M A (IV Mech) 5. Geethanjali S (II Mech) 6. Santhosh Kumar (II Mech) 7.Muthukumar Kishore (II Mech) 8. Ramkumar (II Mech)	**Team name :** RUT RIDERS **Team Members** 1. Grashkar S (IV Mech) 2. Mohammed Riyash J (IV Mech) 3. Madhusivasankari M (IV Mech) 4. Pavan Kumar M A (IV Mech) 5. Dharshana Priya V (II Mech) 6. Vishwanathan S (II Mech) 7. Charan S (IV Mech)

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AI&DS | INFOSYS CERTIFICATION

Vasusudhan Valluvan and **Nithin Saravanan,** students of **Second** year **AI&DS** has successfully completed a course on **"Introduction to Networks"** certified by Infosys Spring board on 20.09.2023.

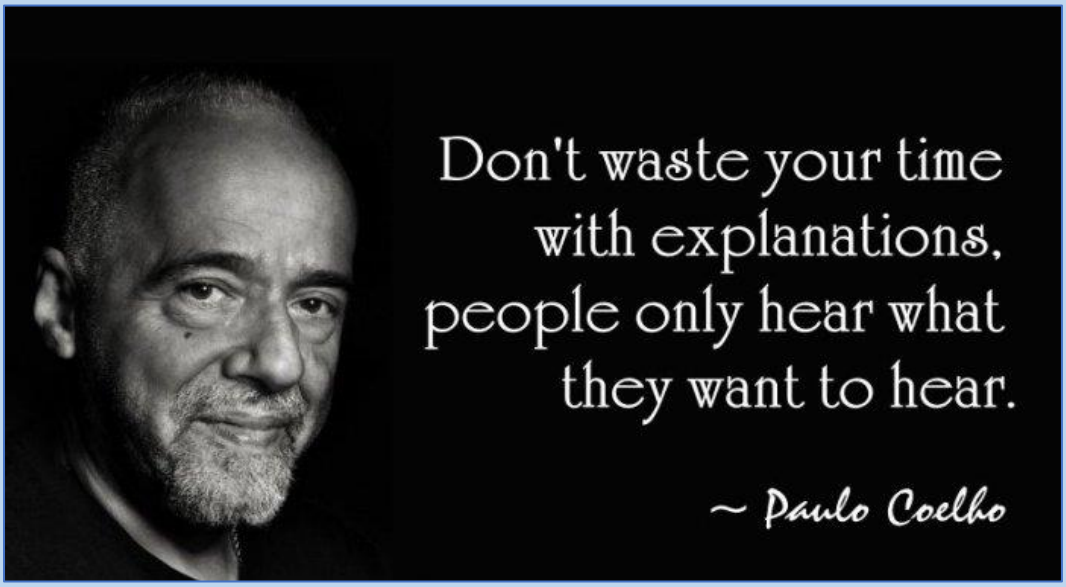
AI&DS | GREAT LEARNING CERTIFICATION

Jeeva Jothika D, student of First year **AI&DS** has successfully completed a course on **"Introduction to Deep Learning"** certified by Great Learning on October 2023.

AI&DS | INFOSYS CERTIFICATION

Rithish Sairam M and **Yuvasri K,** student of **First** year **AI&DS** has successfully completed a course on **"Blockchain 101"** certified by Infosys Spring board on 22.09.2023 and 08.10.2023.

LEGENDARY INSIGHTS

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MECH | FIT INDIA RALLY

National Service Scheme (NSS) unit and The Institute of Indian Foundrymen - SKCET Students Chapter of **SKCET** jointly organized a FIT INDIA (by walk) rally to promote awareness on the importance of Fitness on 11.10.2023. **Mr.K.Raveendran**, Inspector of Police, Kuniyamuthur, was the chief guest. The rally was flagged off by our **Principal** Madam in the presence of **Dr.V.Ragavi**, Dean - Student Affairs, **Dr.S.Sophia, Dean** - R&D Ranking & Accreditation and **Dr. P. Ashokavarthanan,** HOD, MECH. The first and Second year students participated in the rally with an aim to create awareness on obesity, laziness, stress, anxiety and various diseases caused due to it.

EEE | HOD INTERACTION

Dr. K. C. Ramya, HoD, **EEE** interacted with the **Second** year students on 09.10.2023. This session encompassed a comprehensive discussion on various vital aspects:

- CIA-I Performance
- Internal Mark Assessment Pattern
- Submission of Subject wise Assessments in Myklassroom Web portal
- Myklassroom Attendance.

SKCET | ANNA UNIVERSITY BADMINTON WOMEN TOURNAMENT

SKCET Girls Badminton Team has secured the **Runner up** position in the Anna University Sports Board - Zone 10 - Badminton Tournaments 2023 - 2024 held on 10.10.2023 organized by SKCET.

The team demonstrated exceptional skill, teamwork, and sportsmanship throughout the tournament.

Team Members:

- Sreenithi J - I CSD
- Pratika B - II M Tech CSE
- Pujashree E II - M Tech CSE
- Anushka V S - III M Tech CSE
- Jothi Babu - II CSBS
- Roshini A - II CSBS

MECH | GUEST LECTURE ON PRODUCT DEVELOPMENT

Department of **Mechanical Engineering** in association with **SAE SKCET Collegiate Club** organized a Guest Lecture entitled '**The New Era in Product Development within the Aerospace and Defense Industries'** by **Mr. Sainath.K,** Engineering Manager - CIRCOR Flow Technologies India Pvt. Ltd for the First and second year students of Mechanical Engineering Department.

Session Highlights:

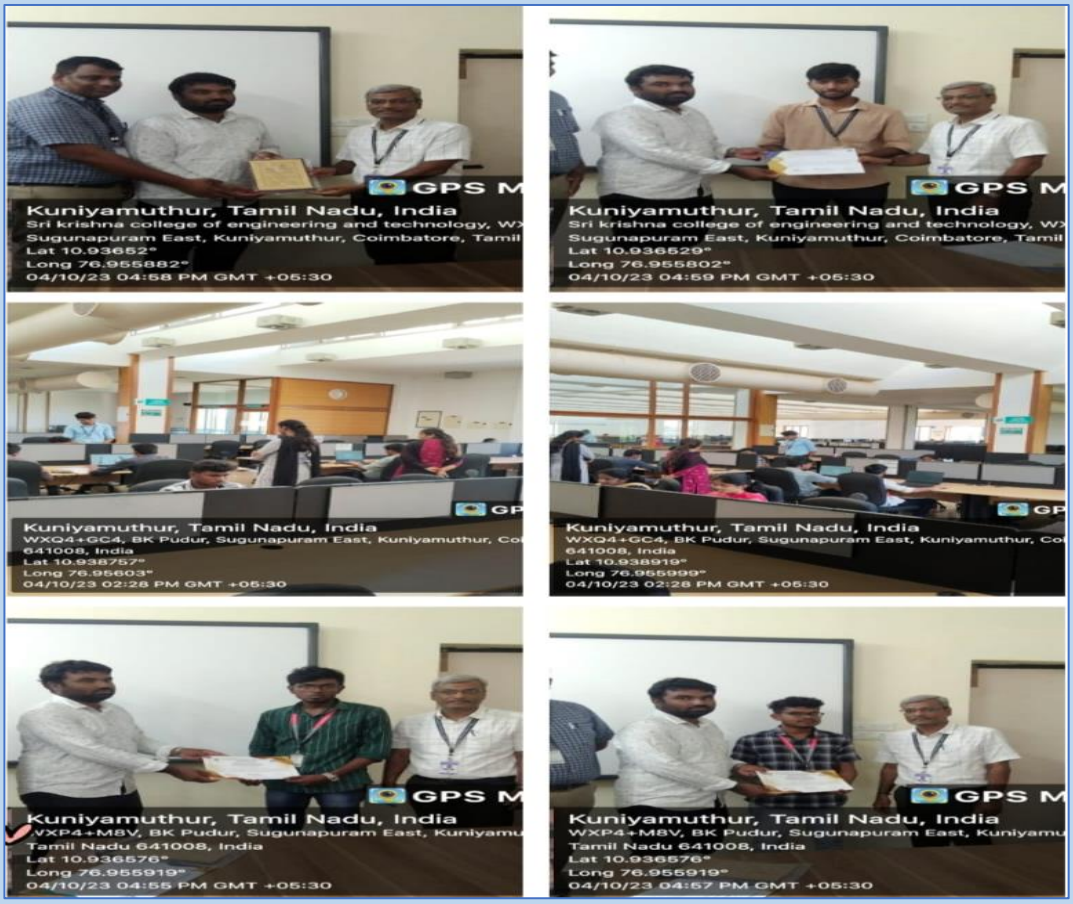
- Emerging trends within the aerospace and defense industries.
- Various tools and certifications crucial in aerospace and defense sectors.
- New product development process.
- Realms of Additive Manufacturing.
- Role of Machine Learning and Artificial Intelligence in aerospace and defense industries.

MECH | OUTSIDE CLASSROOM LEARNING

Second year students of **Mechanical Engineering Department** , as apart of Outside Classroom Learning, visited SAN Precision Alloys Pvt Ltd, Coimbatore on 10.10.2023. The students were accompanied by **Dr.R.Soundararajan,** Professor, Mechanical Engineering.

- Investment casting process
- Post processing methods
- CNC Turning
- VMC
- Digital Measurements

CIVIL | DESIGN MARATHON 2023



Department of **Civil Engineering** organized a technical workshop cum design competition titled **"Design Marathon-2023,"** from 19th September to 4th October 2023.

The final design competition was conducted on 4th of October 2023. **Er R Udhaysankar**, BTR Construction evaluated the participants output drawings and selected the winners. The assessment included drawing a plan of a building in AutoCAD and 3D modelling of the building using SketchUp.

The following students were felicitated with memento and merit certificate.

- Navin Kishore K (III Year) - First Prize
- Abhilash C E(III Year) - Second Prize

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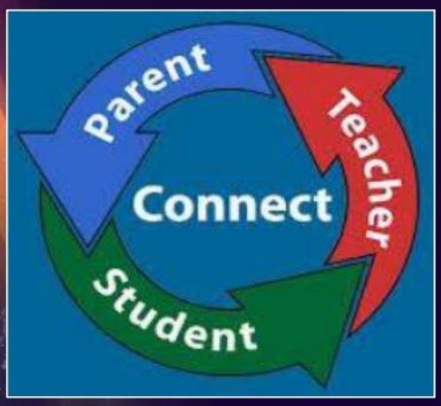

TUTOR WARD MEETING

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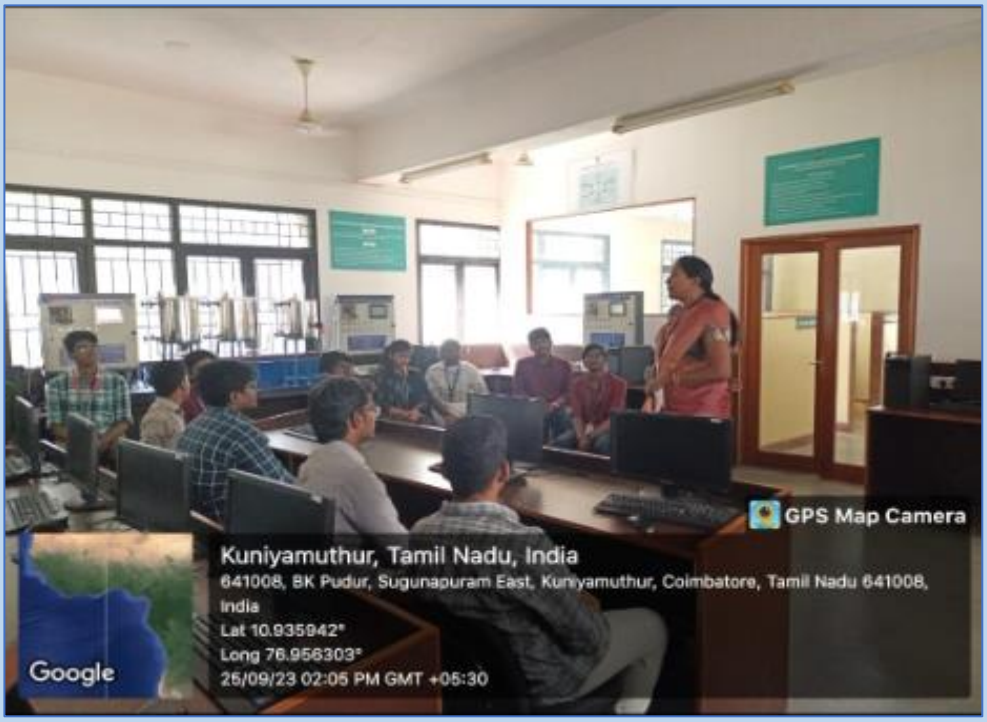
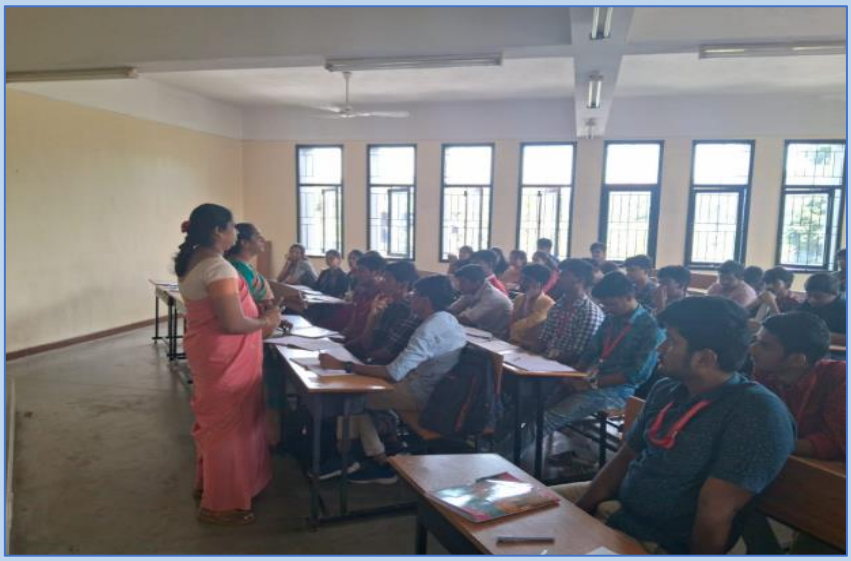
MCT | TUTOR WARD MEETING



Dr.D.Pritima, Professor**, MCT** conducted Tutor Ward Meeting for the **Third** year MCT students on 25.09.2023. The following points were discussed:

- Regular attendance and Discipline.
- Preparation for CIA
- Completion of ICT Learnathon courses.
- IFT report submission & presentation.
- Regular participation in daily and weekend coding test.
- Active participation in Hackathon and other technical events.

MCT | TUTOR WARD MEETING



Ms.S.Nithya Priya, **Ms.S.Kannaki** and **Ms.R.Priyadharshini** conducted Tutor Ward Meeting for the **Second** year students on 27.09.2023. The following points were discussed.

- Learnathon course completion
- Placement test attendance
- Regular attendance and Discipline
- Preparation for CIA

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PLACEMENT AND TRAINING

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TESTIMONIAL BY PLACED STUDENTS

Firstly, I would like to extend my heartfelt thanks to the entire Sri Krishna family for their unwavering support and dedication. Today, as I embark on this exciting journey in my career, I can confidently say that Sri Krishna has not just imparted education, but has also nurtured my overall development. The guidance and support provided by the faculty members and placement team was exceptional. Not only they equipped me with the necessary skills and knowledge, but they also groomed me to be a confident and industry-ready professional. I am incredibly grateful for the professors of my department for their rigorous training, which played a pivotal role in helping me secure a position at Hexaware Technologies. I can say that SKCET has been the best part of my life and I admire the support and dedication I received from the management and my department.

ANUSH C
EEE (2024 BATCH)
HEXAWARE TECHNOLOGIES

TESTIMONIAL BY PLACED STUDENTS

I am **ABHIJITH P R**, and am a passed out student of Mechatronics Engineering, Batch of 2023. The 4 years I have spent in SKCET was amazing. The positive environment helped me in every way. Thanks to SKCET for giving me an opportunity to learn and grow and to hone my communication skills, technical skills and management skills, which are required in life to have a successful career. SKCET has assisted me in developing my interests in both research and development. There are numerous and in-depth learning opportunities available to assist one in developing practical knowledge of the subjects. Placement opportunities in SKCET are plenty and with right guidance, I was able to secure my placement. I am very happy that I chose SKCET back in 2019. I convey my sincere thanks to our Principal Madam and the entire SKCET family for providing me with adverse opportunities in building my career.

ABHIJITH P R, MCT (2023 BATCH), Temenos

TESTIMONIAL BY PLACED STUDENTS

SKCET has always believed in helping and guiding its students and it was no different during the placement season. Regular classes were held at our college to help us with our aptitude and technical skills. The mentors at SKCET helped in enhancing my academic and interpersonal skills. Our placement team guided and encouraged me in each step thereby helping me secure my placement in a reputed company. The years spent here have been full of learning opportunities that were full of fun and frolic and sometimes with academic grind that one has to go through. Thanks to my parents, SKCET Management, Principal and the entire SKCET family for the wonderful opportunity.

SUJITH,
MCT (2021 BATCH)
BYJUS


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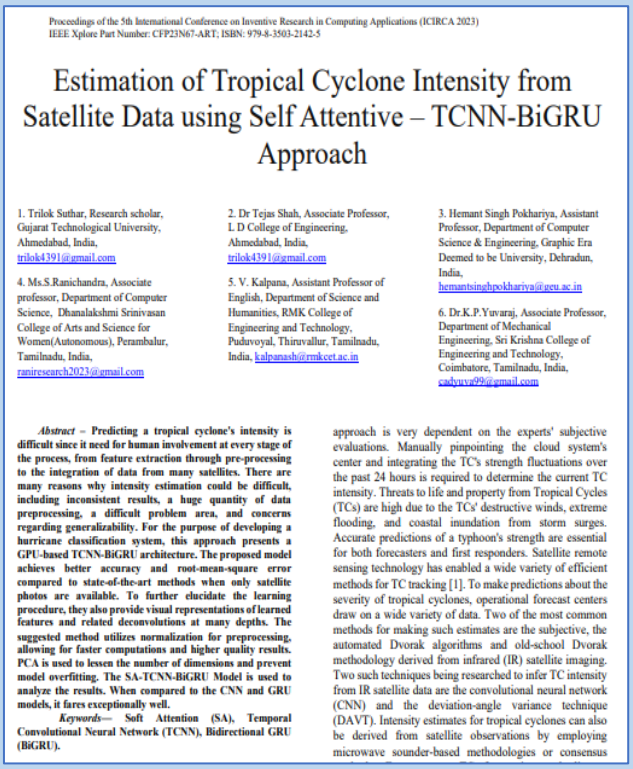
R&D | CONFERENCE PRESENTATION| MECH



Proceedings of the 5th International Conference on Inventive Research in Computing Applications (ICIRCA 2023)
IEEE Xplore Part Number: CFP23N67-ART; ISBN: 979-8-3503-2142-5

Estimation of Tropical Cyclone Intensity from Satellite Data using Self Attentive – TCNN-BiGRU Approach

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2. Dr Tejas Shah, Associate Professor, L D College of Engineering, Ahmedabad, India, trilok4391@gmail.com

3. Hemant Singh Pokhariya, Assistant Professor, Department of Computer Science & Engineering, Graphic Era Deemed to be University, Dehradun, India, hemantsinghpokhariya@geu.ac.in

4. Ms.S.Ranichandra, Associate professor, Department of Computer Science, Dhanalakshmi Srinivasan College of Arts and Science for Women(Autonomous), Perambalur, Tamilnadu, India, raniresearch2023@gmail.com

5. V. Kalpana, Assistant Professor of English, Department of Science and Humanities, RMK College of Engineering and Technology, Puduvoyal, Thiruvallur, Tamilnadu, India, kalpanash@rmkcet.ac.in

6. Dr.K.P.Yuvaraj, Associate Professor, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India, cadyuva99@gmail.com

Abstract **– Predicting a tropical cyclone's intensity is difficult since it need for human involvement at every stage of the process, from feature extraction through pre-processing to the integration of data from many satellites. There are many reasons why intensity estimation could be difficult, including inconsistent results, a huge quantity of data preprocessing, a difficult problem area, and concerns regarding generalizability. For the purpose of developing a hurricane classification system, this approach presents a GPU-based TCNN-BiGRU architecture. The proposed model achieves better accuracy and root-mean-square error compared to state-of-the-art methods when only satellite photos are available. To further elucidate the learning procedure, they also provide visual representations of learned features and related deconvolutions at many depths. The suggested method utilizes normalization for preprocessing, allowing for faster computations and higher quality results. PCA is used to lessen the number of dimensions and prevent model overfitting. The SA-TCNN-BiGRU Model is used to analyze the results. When compared to the CNN and GRU models, it fares exceptionally well.**

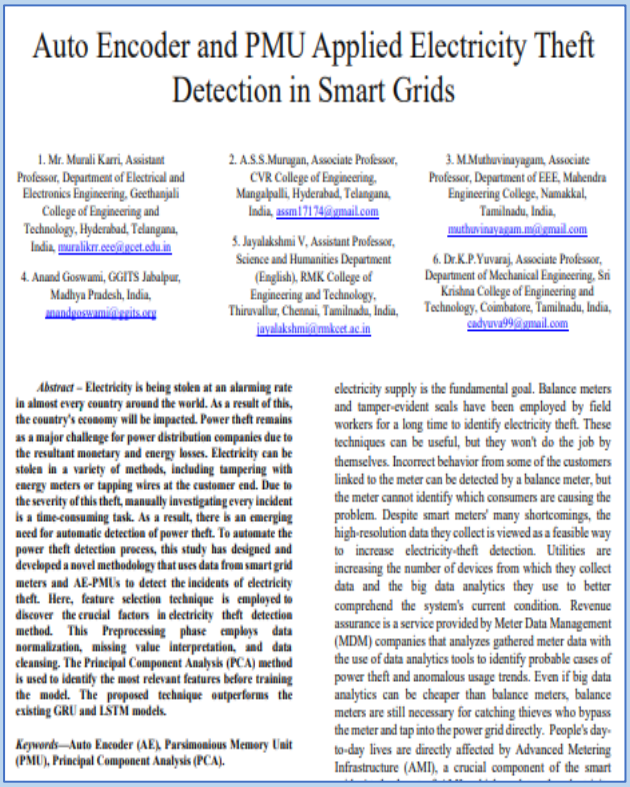
Keywords— **Soft Attention (SA), Temporal Convolutional Neural Network (TCNN), Bidirectional GRU (BiGRU).**

approach is very dependent on the experts' subjective evaluations. Manually pinpointing the cloud system's center and integrating the TC's strength fluctuations over the past 24 hours is required to determine the current TC intensity. Threats to life and property from Tropical Cycles (TCs) are high due to the TCs' destructive winds, extreme flooding, and coastal inundation from storm surges. Accurate predictions of a typhoon's strength are essential for both forecasters and first responders. Satellite remote sensing technology has enabled a wide variety of efficient methods for TC tracking [1]. To make predictions about the severity of tropical cyclones, operational forecast centers draw on a wide variety of data. Two of the most common methods for making such estimates are the subjective, the automated Dvorak algorithms and old-school Dvorak methodology derived from infrared (IR) satellite imaging. Two such techniques being researched to infer TC intensity from IR satellite data are the convolutional neural network (CNN) and the deviation-angle variance technique (DAVT). Intensity estimates for tropical cyclones can also be derived from satellite observations by employing microwave sounder-based methodologies or consensus

Dr. K P Yuvaraj, Associate Professor, **Mechanical Engineering** has presented his research paper entitled **'Estimation of Tropical Cyclone Intensity from Satellite Data Using Self Attentive – TCNN-BiGRU Approach'** in the International Conference on Inventive Research in Computing Applications. The Proceedings of the conference is indexed in Scopus.

R&D | CONFERENCE PRESENTATION| MECH

Dr. K P Yuvaraj, Associate Professor, **Mechanical** Engineering has presented his paper entitled **'Auto Encoder and PMU Applied Electricity Theft Detection in Smart Grids'** in the International Conference on Augmented Intelligence and Sustainable Systems. The Proceedings of the conference is indexed in Scopus.



Auto Encoder and PMU Applied Electricity Theft Detection in Smart Grids

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6. Dr.K.P.Yuvaraj, Associate Professor, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India, cadyuva99@gmail.com

Abstract **– Electricity is being stolen at an alarming rate in almost every country around the world. As a result of this, the country's economy will be impacted. Power theft remains as a major challenge for power distribution companies due to the resultant monetary and energy losses. Electricity can be stolen in a variety of methods, including tampering with energy meters or tapping wires at the customer end. Due to the severity of this theft, manually investigating every incident is a time-consuming task. As a result, there is an emerging need for automatic detection of power theft. To automate the power theft detection process, this study has designed and developed a novel methodology that uses data from smart grid meters and AE-PMUs to detect the incidents of electricity theft. Here, feature selection technique is employed to discover the crucial factors in electricity theft detection method. This Preprocessing phase employs data normalization, missing value interpretation, and data cleansing. The Principal Component Analysis (PCA) method is used to identify the most relevant features before training the model. The proposed technique outperforms the existing GRU and LSTM models.**

Keywords—**Auto Encoder (AE), Parsimonious Memory Unit (PMU), Principal Component Analysis (PCA).**

electricity supply is the fundamental goal. Balance meters and tamper-evident seals have been employed by field workers for a long time to identify electricity theft. These techniques can be useful, but they won't do the job by themselves. Incorrect behavior from some of the customers linked to the meter can be detected by a balance meter, but the meter cannot identify which consumers are causing the problem. Despite smart meters' many shortcomings, the high-resolution data they collect is viewed as a feasible way to increase electricity-theft detection. Utilities are increasing the number of devices from which they collect data and the big data analytics they use to better comprehend the system's current condition. Revenue assurance is a service provided by Meter Data Management (MDM) companies that analyzes gathered meter data with the use of data analytics tools to identify probable cases of power theft and anomalous usage trends. Even if big data analytics can be cheaper than balance meters, balance meters are still necessary for catching thieves who bypass the meter and tap into the power grid directly. People's day-to-day lives are directly affected by Advanced Metering Infrastructure (AMI), a crucial component of the smart

R&D | PATENT GRANT| MECH

Patent titled **'IoT enabled 5G based street lamp'** filed by **Mr.J.Baskaran,** Assistant Professor, **Mechanical** Engineering has been granted by the Patent Office, Government of India.


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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 389037-001

तारीख / Date : 26/06/2023

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *IOT ENABLED 5G BASED STREET LAMP* से संबंधित है, का पंजीकरण, बेची 26-03 में 1.Dr.V.Sathya 2. Dr.M.Rajakumaran 3.Dr.S.Subhasree 4.Mr. Baskaran J 5.Mr. S.Mayakannan 6.Dr. Jagendra Singh 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 26-03 in respect of the application of such design to *IOT ENABLED 5G BASED STREET LAMP* in the name of 1.Dr.V.Sathya 2. Dr.M.Rajakumaran 3.Dr.S.Subhasree 4.Mr. Baskaran J 5.Mr. S.Mayakannan 6.Dr. Jagendra Singh.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन 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 Date of Issue : 30/06/2023

Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो), जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का व्यवसायिक पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार अधिनियम एवं नियम के नियंत्रणों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

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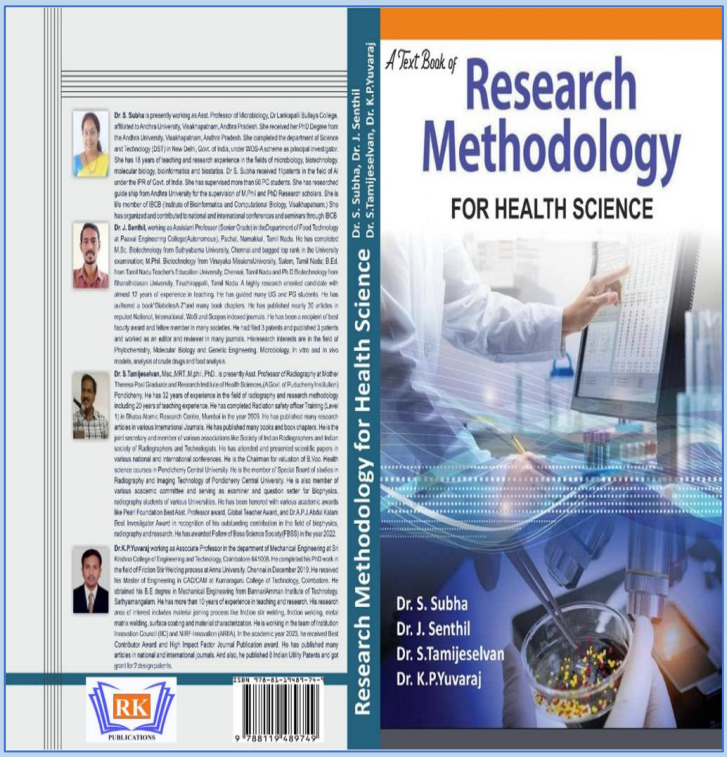
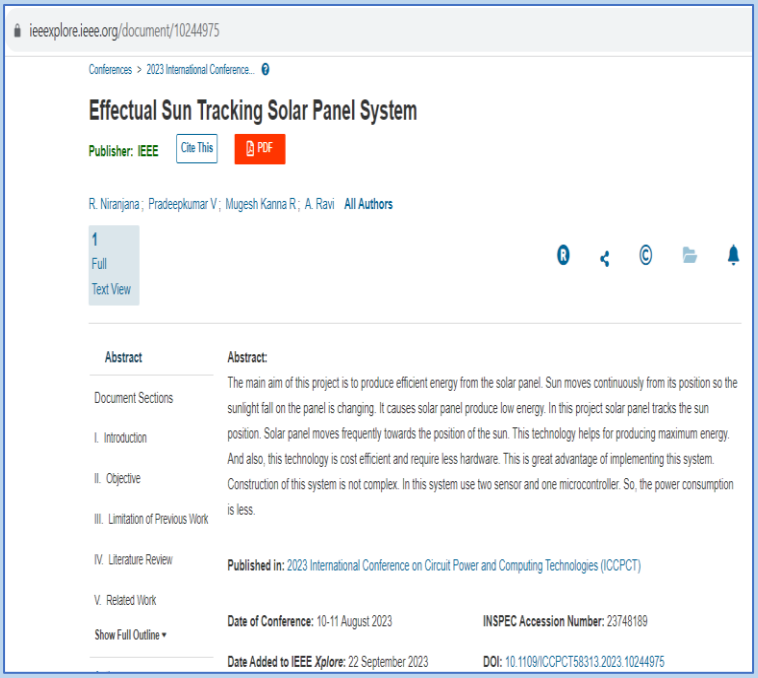
R&D | BOOK PUBLICATION | MECH



Dr.K.P.Yuvaraj, Associate Professor, **Mechanical** Engineering has published a book entitled **'Research Methodology for Health Science'** published by RK Publications.

R&D | PAPER PUBLICATION | ECE

Ms.R.Niranjana, Assistant Professor, Department of **ECE** has presented and published a paper entitled **"Effectual Sun Tracking Solar Panel System"** in the 2023 International Conference on Circuit Power and Computing Technologies (ICCPCT). It is a Scopus Indexed Conference.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Conferences > 2023 International Conference...

Effectual Sun Tracking Solar Panel System

Publisher: IEEE | Cite This | PDF

R. Niranjana ; Pradeepkumar V ; Mugesh Kanna R ; A. Ravi All Authors

1 Full Text View

Abstract

Document Sections

I. Introduction

II. Objective

III. Limitation of Previous Work

IV. Literature Review

V. Related Work

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Abstract:
The main aim of this project is to produce efficient energy from the solar panel. Sun moves continuously from its position so the sunlight fall on the panel is changing. It causes solar panel produce low energy. In this project solar panel tracks the sun position. Solar panel moves frequently towards the position of the sun. This technology helps for producing maximum energy. And also, this technology is cost efficient and require less hardware. This is great advantage of implementing this system. Construction of this system is not complex. In this system use two sensor and one microcontroller. So, the power consumption is less.

Published in: 2023 International Conference on Circuit Power and Computing Technologies (ICCPCT)

Date of Conference: 10-11 August 2023 **INSPEC Accession Number:** 23748189

Date Added to IEEE *Xplore*: 22 September 2023 **DOI:** 10.1109/ICCPCT58313.2023.10244975

R&D | PATENT GRANT | M.TECH CSE


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क्रम सं/ Serial No. : 145104

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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 389560-001
तारीख / Date : 04/07/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *WEED REMOVER* से संबंधित है, का पंजीकरण, श्रेणी 15-03 में 1.Mr. S. Srinivasan 2. Dr. D. Prabha 3.Dr. S. Thirumurugaveerakumar 4.Mr. N. Nagarajan 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 15-03 in respect of the application of such design to *WEED REMOVER* in the name of 1.Mr. S. Srinivasan 2. Dr. D. Prabha 3.Dr. S. Thirumurugaveerakumar 4.Mr. N. Nagarajan.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन 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 : 05/10/2023
Date of Issue

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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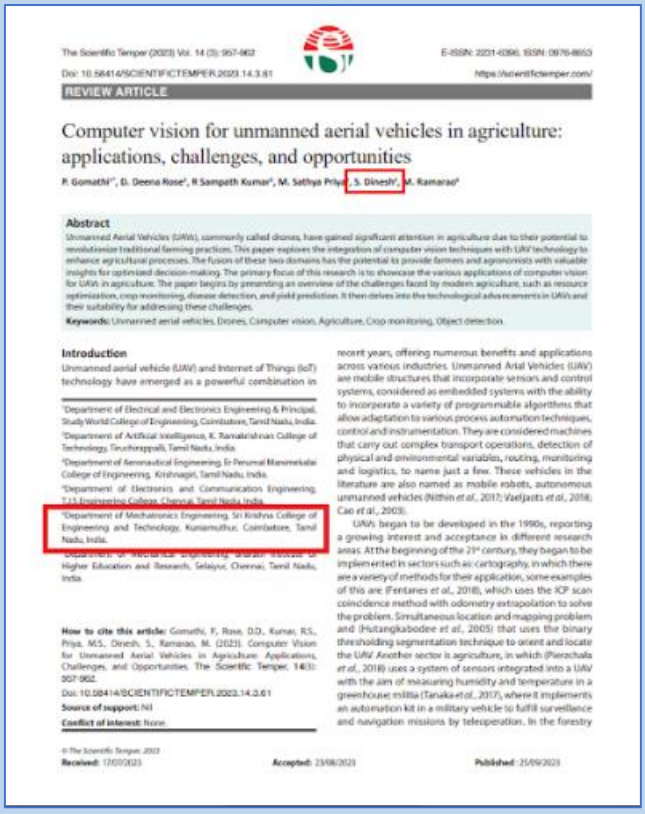
Dr.D.Prabha, Professor**,** Department of **M.Tech Computer Science and Engineering** has received a design patent grant for the project titled "**Weed Remover**" with the design number 389560-001 dated 4.7.2023.

R&D | ARTICLE PUBLICATION | MCT

Dr.S.Dinesh, Assistant Professor, Mechatronics Engineering has published an article entitled **"Computer vision for unmanned aerial vehicles in agriculture: Applications, Challenges, and Opportunities"** in The Scientific Temper (2023) Vol. 14 (3): 957-962 published on 25/09/2023 (UGC Care – II Listed Journal & WoS).



REVIEW ARTICLE

Computer vision for unmanned aerial vehicles in agriculture: applications, challenges, and opportunities

P. Gomathi[1*], D. Deena Rose[2], R Sampath Kumar[3], M. Sathya Priya[4], S. Dinesh[5], M. Ramarao[6]

Abstract

Unmanned Aerial Vehicles (UAVs), commonly called drones, have gained significant attention in agriculture due to their potential to revolutionize traditional farming practices. This paper explores the integration of computer vision techniques with UAV technology to enhance agricultural processes. The fusion of these two domains has the potential to provide farmers and agronomists with valuable insights for optimized decision-making. The primary focus of this research is to showcase the various applications of computer vision for UAVs in agriculture. The paper begins by presenting an overview of the challenges faced by modern agriculture, such as resource optimization, crop monitoring, disease detection, and yield prediction. It then delves into the technological advancements in UAVs and their suitability for addressing these challenges.

Keywords: Unmanned aerial vehicles, Drones, Computer vision, Agriculture, Crop monitoring, Object detection

Introduction

Unmanned aerial vehicle (UAV) and Internet of Things (IoT) technology have emerged as a powerful combination in recent years, offering numerous benefits and applications across various industries. Unmanned Arial Vehicles (UAV) are mobile structures that incorporate sensors and control systems, considered as embedded systems with the ability to incorporate a variety of programmable algorithms that allow adaptation to various process automation techniques, control and instrumentation. They are considered machines that carry out complex transport operations, detection of physical and environmental variables, routing, monitoring and logistics, to name just a few. These vehicles in the literature are also named as mobile robots, autonomous unmanned vehicles (Nithin et al., 2017; Vasfjords et al., 2018; Cao et al., 2003).

UAVs began to be developed in the 1990s, reporting a growing interest and acceptance in different research areas. At the beginning of the 21st century, they began to be implemented in sectors such as: cartography, in which there are a variety of methods for their application, some examples of this are (Fentanes et al., 2018), which uses the ICP scan coincidence method with odometry extrapolation to solve the problem. Simultaneous location and mapping problem and (Hutangkabodee et al., 2005) that uses the binary thresholding segmentation technique to orient and locate the UAV. Another sector is agriculture, in which (Pierzchala et al., 2018) uses a system of sensors integrated into a UAV with the aim of measuring humidity and temperature in a greenhouse; militia (Tanaka et al., 2017), where it implements an automation kit in a military vehicle to fulfil surveillance and navigation missions by teleoperation. In the forestry

[1]Department of Electrical and Electronics Engineering & Principal, Study World College of Engineering, Coimbatore, Tamil Nadu, India. [2]Department of Artificial Intelligence, K. Ramakrishnan College of Technology, Tiruchirappalli, Tamil Nadu, India. [3]Department of Aeronautical Engineering, Er.Perumal Manimekalai College of Engineering, Krishnagiri, Tamil Nadu, India. [4]Department of Electronics and Communication Engineering, T.J.S. Engineering College, Chennai, Tamil Nadu, India. [5]Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kunnamuthur, Coimbatore, Tamil Nadu, India. [6]Department of Mechanical Engineering, Bharath Institute of Higher Education and Research, Selaiyur, Chennai, Tamil Nadu, India.

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Doi: 10.58414/SCIENTIFICTEMPER.2023.14.3.61

Source of support: Nil

Conflict of interest: None

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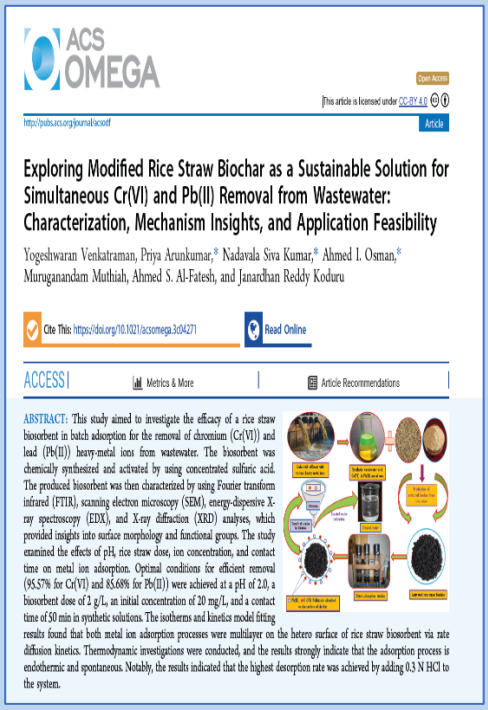
R&D | JOURNAL PUBLICATION | CIVIL



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Article

Exploring Modified Rice Straw Biochar as a Sustainable Solution for Simultaneous Cr(VI) and Pb(II) Removal from Wastewater: Characterization, Mechanism Insights, and Application Feasibility

Yogeshwaran Venkatraman, Priya Arunkumar,* Nadavala Siva Kumar,* Ahmed I. Osman,* Muruganandam Muthiah, Ahmed S. Al-Fatesh, and Janardhan Reddy Koduru

Cite This: https://doi.org/10.1021/acsomega.3c04271

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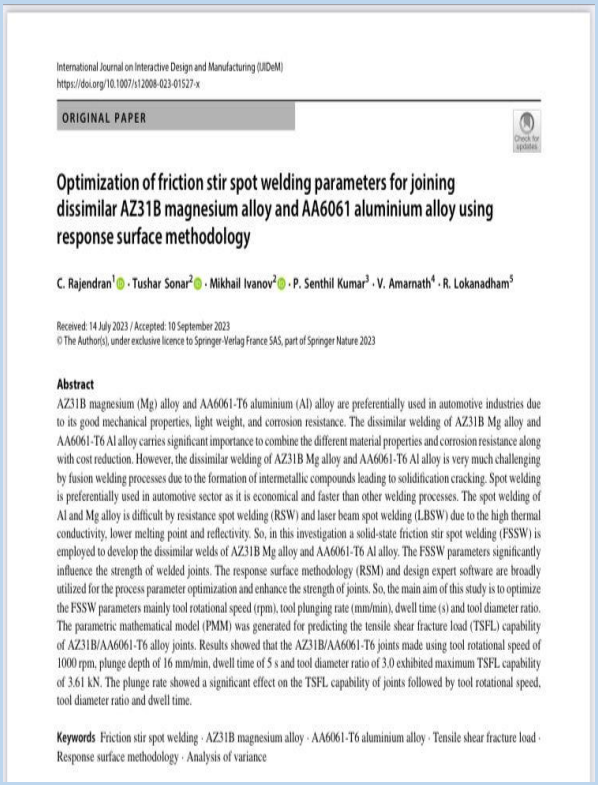
ABSTRACT: This study aimed to investigate the efficacy of a rice straw biosorbent in batch adsorption for the removal of chromium (Cr(VI)) and lead (Pb(II)) heavy-metal ions from wastewater. The biosorbent was chemically synthesized and activated by using concentrated sulfuric acid. The produced biosorbent was then characterized by using Fourier transform infrared (FTIR), scanning electron microscopy (SEM), energy-dispersive X-ray spectroscopy (EDX), and X-ray diffraction (XRD) analyses, which provided insights into surface morphology and functional groups. The study examined the effects of pH, rice straw dose, ion concentration, and contact time on metal ion adsorption. Optimal conditions for efficient removal (95.57% for Cr(VI) and 85.68% for Pb(II)) were achieved at a pH of 2.0, a biosorbent dose of 2 g/L, an initial concentration of 20 mg/L, and a contact time of 50 min in synthetic solutions. The isotherms and kinetics model fitting results found that both metal ion adsorption processes were multilayer on the hetero surface of rice straw biosorbent via rate diffusion kinetics. Thermodynamic investigations were conducted, and the results strongly indicate that the adsorption process is endothermic and spontaneous. Notably, the results indicated that the highest desorption rate was achieved by adding 0.3 N HCl to the system.

Dr.V.Yogeshwaran, Assistant Professor, **Department of Civil Engineering,** has published a research article titled **"Exploring Modified Rice Straw Biochar as a Sustainable Solution for Simultaneous Cr(VI) and Pb(II) Removal from Wastewater:Characterization, Mechanism Insights, and Application Feasibility"** in the journal ACS Omega. It is indexed in Scopus and WoS with an Impact Factor of 4.71.

R&D | ARTICLE PUBLICATION | MECH

Dr.C.Rajendran, Associate Professor, **MECH** has published a scientific article entitled **'Optimization of friction stir spot welding parameters for joining dissimilar AZ31B magnesium alloy and AA6061 aluminium alloy using response surface methodology'** in the International Journal on Interactive Design and Manufacturing – A Springer Publication. It is a SCI, WoS and Scopus Indexed Journal with Impact Factor 2.2.



International Journal on Interactive Design and Manufacturing (IJIDeM)
https://doi.org/10.1007/s12008-023-01527-x

ORIGINAL PAPER

Optimization of friction stir spot welding parameters for joining dissimilar AZ31B magnesium alloy and AA6061 aluminium alloy using response surface methodology

C. Rajendran[1] · Tushar Sonar[2] · Mikhail Ivanov[2] · P. Senthil Kumar[3] · V. Amarnath[4] · R. Lokanadham[5]

Received: 14 July 2023 / Accepted: 10 September 2023
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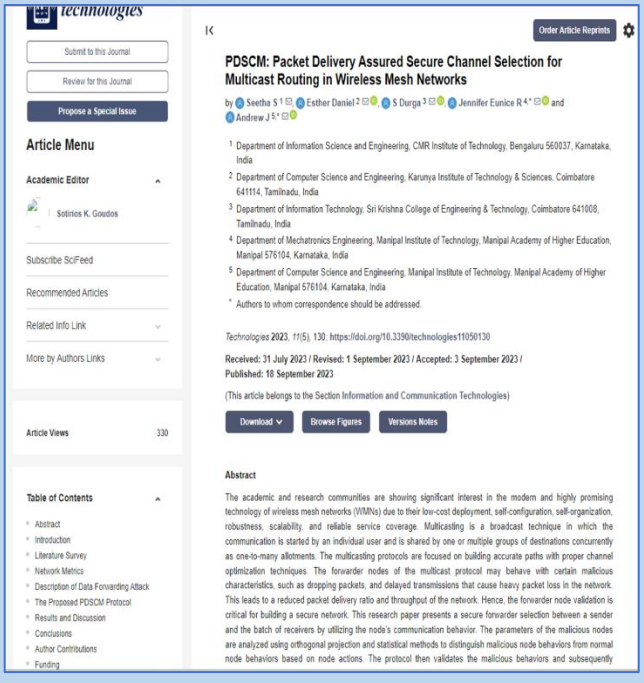
Abstract
AZ31B magnesium (Mg) alloy and AA6061-T6 aluminium (Al) alloy are preferentially used in automotive industries due to its good mechanical properties, light weight, and corrosion resistance. The dissimilar welding of AZ31B Mg alloy and AA6061-T6 Al alloy carries significant importance to combine the different material properties and corrosion resistance along with cost reduction. However, the dissimilar welding of AZ31B Mg alloy and AA6061-T6 Al alloy is very much challenging by fusion welding processes due to the formation of intermetallic compounds leading to solidification cracking. Spot welding is preferentially used in automotive sector as it is economical and faster than other welding processes. The spot welding of Al and Mg alloy is difficult by resistance spot welding (RSW) and laser beam spot welding (LBSW) due to the high thermal conductivity, lower melting point and reflectivity. So, in this investigation a solid-state friction stir spot welding (FSSW) is employed to develop the dissimilar welds of AZ31B Mg alloy and AA6061-T6 Al alloy. The FSSW parameters significantly influence the strength of welded joints. The response surface methodology (RSM) and design expert software are broadly utilized for the process parameter optimization and enhance the strength of joints. So, the main aim of this study is to optimize the FSSW parameters mainly tool rotational speed (rpm), tool plunging rate (mm/min), dwell time (s) and tool diameter ratio. The parametric mathematical model (PMM) was generated for predicting the tensile shear fracture load (TSFL) capability of AZ31B/AA6061-T6 alloy joints. Results showed that the AZ31B/AA6061-T6 joints made using tool rotational speed of 1000 rpm, plunge depth of 16 mm/min, dwell time of 5 s and tool diameter ratio of 3.0 exhibited maximum TSFL capability of 3.61 kN. The plunge rate showed a significant effect on the TSFL capability of joints followed by tool rotational speed, tool diameter ratio and dwell time.

Keywords Friction stir spot welding · AZ31B magnesium alloy · AA6061-T6 aluminium alloy · Tensile shear fracture load · Response surface methodology · Analysis of variance

R&D | JOURNAL PUBLICATION | IT



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- The Proposed PDSCM Protocol
- Results and Discussion
- Conclusions
- Author Contributions
- Funding

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PDSCM: Packet Delivery Assured Secure Channel Selection for Multicast Routing in Wireless Mesh Networks

by Seetha S [1], Esther Daniel [2], S Durga [3], Jennifer Eunice R [4,*] and Andrew J [5,*]

1 Department of Information Science and Engineering, CMR Institute of Technology, Bengaluru 560037, Karnataka, India
2 Department of Computer Science and Engineering, Karunya Institute of Technology & Sciences, Coimbatore 641114, Tamilnadu, India
3 Department of Information Technology, Sri Krishna College of Engineering & Technology, Coimbatore 641008, Tamilnadu, India
4 Department of Mechatronics Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal 576104, Karnataka, India
5 Department of Computer Science and Engineering, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal 576104, Karnataka, India
* Authors to whom correspondence should be addressed.

Technologies 2023, *11*(5), 130. https://doi.org/10.3390/technologies11050130

Received: 31 July 2023 / **Revised:** 1 September 2023 / **Accepted:** 3 September 2023 / **Published:** 18 September 2023

(This article belongs to the Section Information and Communication Technologies)

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Abstract

The academic and research communities are showing significant interest in the modern and highly promising technology of wireless mesh networks (WMNs) due to their low-cost deployment, self-configuration, self-organization, robustness, scalability and reliable service coverage. Multicasting is a broadcast technique in which the communication is started by an individual user and is shared by one or multiple groups of destinations concurrently as one-to-many allotments. The multicasting protocols are focused on building accurate paths with proper channel optimization techniques. The forwarder nodes of the multicast protocol may behave with certain malicious characteristics, such as dropping packets, and delayed transmissions that cause heavy packet loss in the network. This leads to a reduced packet delivery ratio and throughput of the network. Hence, the forwarder node validation is critical for building a secure network. This research paper presents a secure forwarder selection between a sender and the batch of receivers by utilizing the node's communication behavior. The parameters of the malicious nodes are analyzed using orthogonal projection and statistical methods to distinguish malicious node behaviors from normal node behaviors based on node actions. The protocol then validates the malicious behaviors and subsequently

Dr. S. Durga, Associate Professor, **IT** has published a paper titled "**PDSCM: Packet Delivery Assured Secure Channel Selection for Multicast Routing in Wireless Mesh Networks**" in Technologies Journal, 11(5), 130, September 2023.It is a WoS ESCI Journal with an impact factor of 3.6.

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CSBS | BEST AMBASSADOR OF IEEE YESIST 12'23

Dr.S.Balakrishnan, HoD, **CSBS & CSY** has been recognized by **IEEE YESIST** as one among the top 10 Best Ambassadors for promoting **IEEE YESIST 12's** mission to new heights. His remarkable and unwavering commitment in spreading its message and passion for advancing technologies was highly appreciated.

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Date: **11-Oct-2023**

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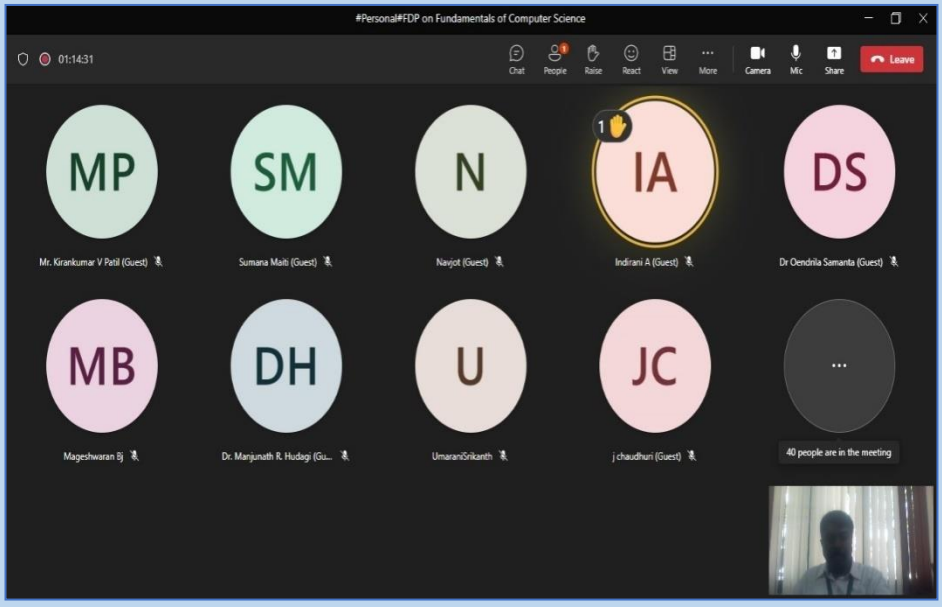
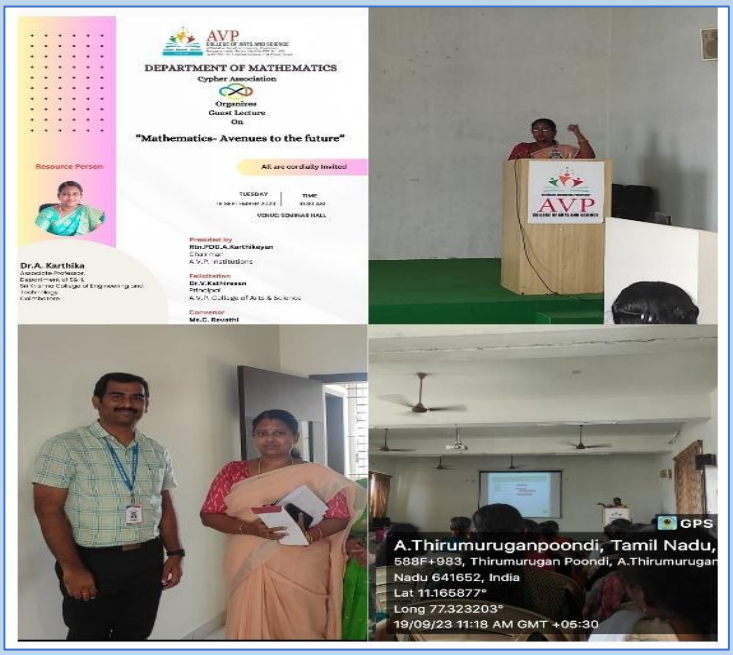


Dr.S.Balakrishnan, Professor and Head, Department of **Computer Science and Business Systems** has received a certificate of appreciation for conducting a Faculty Development Program on **"Fundamentals of Computing Science"** designed by Tata Consultancy Services on 3rd October 2023.

CSE | SEMINAR - RESOURCE PERSON

Mr.M.Vengateshwaran Assistant Professor, **CSE** has been the Resource Person for a seminar on **"Next Frontiers & Research Significance of Big Data Analytics using Modern Computing Paradigm"** at RP Sarathy Institute of Technology, Salem on 06-10-2023.

S&H | SEMINAR – RESOURCE PERSON



Dr.A.Karthika, Associate Professor, Department of Science and Humanities has delivered a talk on **"Mathematics - Avenues to the Future"** at AVP College of Arts and Science, Avinashi.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Mr.R.Kavin, Assistant Professor, **EEE** Department has successfully completed a course on **"Blockchain Basics"** certified by Great Learning Academy.

M.TECH CSE | INFOSYS CERTIFICATION

Dr.A.Pushpalatha, Associate Professor, Department of **M.Tech.CSE** has successfully completed a certification course titled **"Fundamentals of Information Security and Introduction to Cyber Security"** offered through Infosys Springboard platform on 09.10.2023.


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MECH | NPTEL FACULTY CERTIFICATION

Following Faculty members from the Department of **Mechanical Engineering** have successfully completed course on 'Product Design and Development' with Gold and Silver certificates.

S. No	Name of the Faculty	Certificate
1	Dr. R. Ramamoorthi, Professor	Gold
2	Dr. R. Jeyakumar, Professor	Silver
3	Dr. K P Yuvaraj, Associate Professor	Silver
4	Mr. R. Arun Kumar, Assistant Professor	Silver

CSE | TRAINING ON .NET FULL STACK

Dr.Kousika N, Assistant Professor, **CSE** has participated in the **Wipro Certified Faculty** training program on "**.Net Full Stack"** conducted by **TalentNext** from 11-09-2023 to 3-10-2023.

M.Tech CSE | COURSERA CERTIFICATION

Dr.P.Kavitha Rani, Professor & Head **,** Department of **M.Tech CSE** and **CSD** has successfully completed a certification course titled "**Introduction to Augmented Reality and AR Core**" authorized by Google AR & VR through Coursera platform on 10.10.2023.

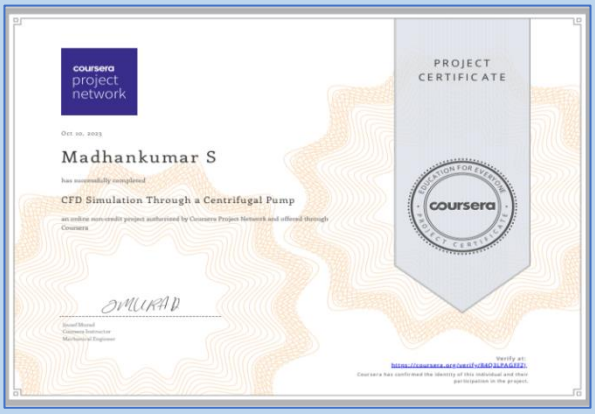
M.TECH CSE | INFOSYS CERTIFICATION

Dr.P.Kavitha Rani, Professor & Head , Department of **M.Tech CSE** and **CSD** has successfully completed a certification course titled **"Fundamentals of Information Security and Introduction to Cyber Security"** through **Infosys Springboard** Platform on 9.10.2023.

S&H | NPTEL CERTIFICATION

Ms.Jayapradha A, Assistant Professor, Department of **Science and Humanities** has completed NPTEL course on **"Laplace Transform"** and has secured **Elite Silver Certification**.

MCT | COURSERA CERTIFICATION



Dr.N.Mithran, Mr.S.Madhan Kumar, Mr.T.Vignesh, Dr.M.Bhuvaneswari, Dr.S.Dinesh and **Dr.R.Gopinathan**, Assistant Professors of **MCT**, have successfully completed a course on **"CFD Simulation through a Centrifugal Pump"**. It's an online project authorized by Coursera Project Network and offered through Coursera.

MCT | COURSERA CERTIFICATION

Dr.M.Bhuvaneswari, Dr.S.Dinesh and **Mr.S.Panneerselvam,** Assistant Professors of MCT, have successfully completed a course on **"Introduction to Basic Game Development Using Scratch".** It's an online project authorized by Coursera Project Network and offered through Coursera.

AI&DS | MICROSOFT CERTIFICATION

Mr.S.Senthil Kumar, Assistant Professor of **AI&DS** has successfully completed a course on **"Responsible Generative AI"** Certified by Microsoft on October 5th 2023.

CSBS | FDP ON DIVISION OF DIGITAL SCIENCES

Dr.G.Ignisha Rajathi and **Ms.A.Mary Ani Reka,** faculty members of **CSBS** have successfully participated in the Faculty Development Program on **"Data Analytics and Machine Learning"** organized by Karunya University along with Institution's Innovation Council from 18.09.2023 to 22.09.2023.

S&H | FDP ON LITERARY STUDIES

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DEPARTMENT OF ENGLISH

This is to certify that Dr. E. Sumathi Asst Professor Sri Krishna College of Engineering and Technology participated in online FACULTY DEVELOPMENT PROGRAM on Literary Studies conducted by the Department of English from 09/10/23 to 11/10/23

Dr. G. Srilatha
HOD

Prof. Rajesh.C Jampala
Dean

Dr. M. Ramesh

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Dr.E.Sumathi, Assistant Professor, **Department of Science and Humanities** has attended a **Faculty Development Program** on "**Literary Studies"**. The program was organized by Parvathaneni Brahmayya Siddhartha College of Arts and Science, Vijayawada from 9.10.2023 to 11.10.2023.

MCT | DST – SERB SEMINAR

Dr.M.Bhuvaneswari, Assistant Professor of **MCT**, has actively participated in DST – SERB sponsored a Two day National Level Seminar on **"Machine Learning Techniques for Spectrum Prediction in Cognitive Radio Networks"** organized by the Department of Electronics and Communication Engineering, R.M.K College of Engineering and Technology on 22.09.23 and 23.09.23.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to Certify that
Dr. M .BHUVANESWARI
AP, Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu
has actively participated in DST-SERB sponsored a Two day National Level Seminar on "Machine Learning Techniques for Spectrum Prediction in Cognitive Radio Networks" Organized by the Department of Electronics and Communication Engineering, R.M.K. College of Engineering and Technology on 22-09-2023 and 23-09-2023.

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20-22, September 2023
Certificate of Presentation
This is to certify that Prof. / Dr. / Mr. / Ms.
J Indirapriyadharshini
have successfully presented the paper entitled
Prediction of Weather Forecasting with Long Short-Term Memory using Deep Learning
in ICOSEC–2023; 4th International Conference on Smart Electronics and Communication Organized by Kongunadu College of Engineering and Technology Trichy, Tamil Nadu, India
Session Chair
Dr. J. Yogapriya
Conference Chair
Dr. R. Asokan
General Chair
IEEE Conference ID: 58147

Dr.J.Indirapriyadharshini, Assistant Professor of **MCT**, has successfully presented a paper entitled **"Prediction of Weather Forecasting with Long Short - Term Memory using Deep Learning"** in ICOSEC – 2023, the 4th International Conference on Smart Electronics and Communication organized by Kongunadu College of Engineering and Technology Trichy, Tamil Nadu, India.

CIVIL | CONFERENCE PRESENTATION

Final year **Civil Engineering** students, **S A Maruthu, G Sridharan** and **R Sriram** along with their faculty mentor, **Dr.M.R. Ezhilkumar** presented their project work in the First International Conference on Green Energy, Environmental Engineering and Sustainable Technologies 2023 (ICGEST 2023) held at KLS Gogte Institute of Technology, Belagavi, Karnataka, India on 05th and 06th , October 2023.

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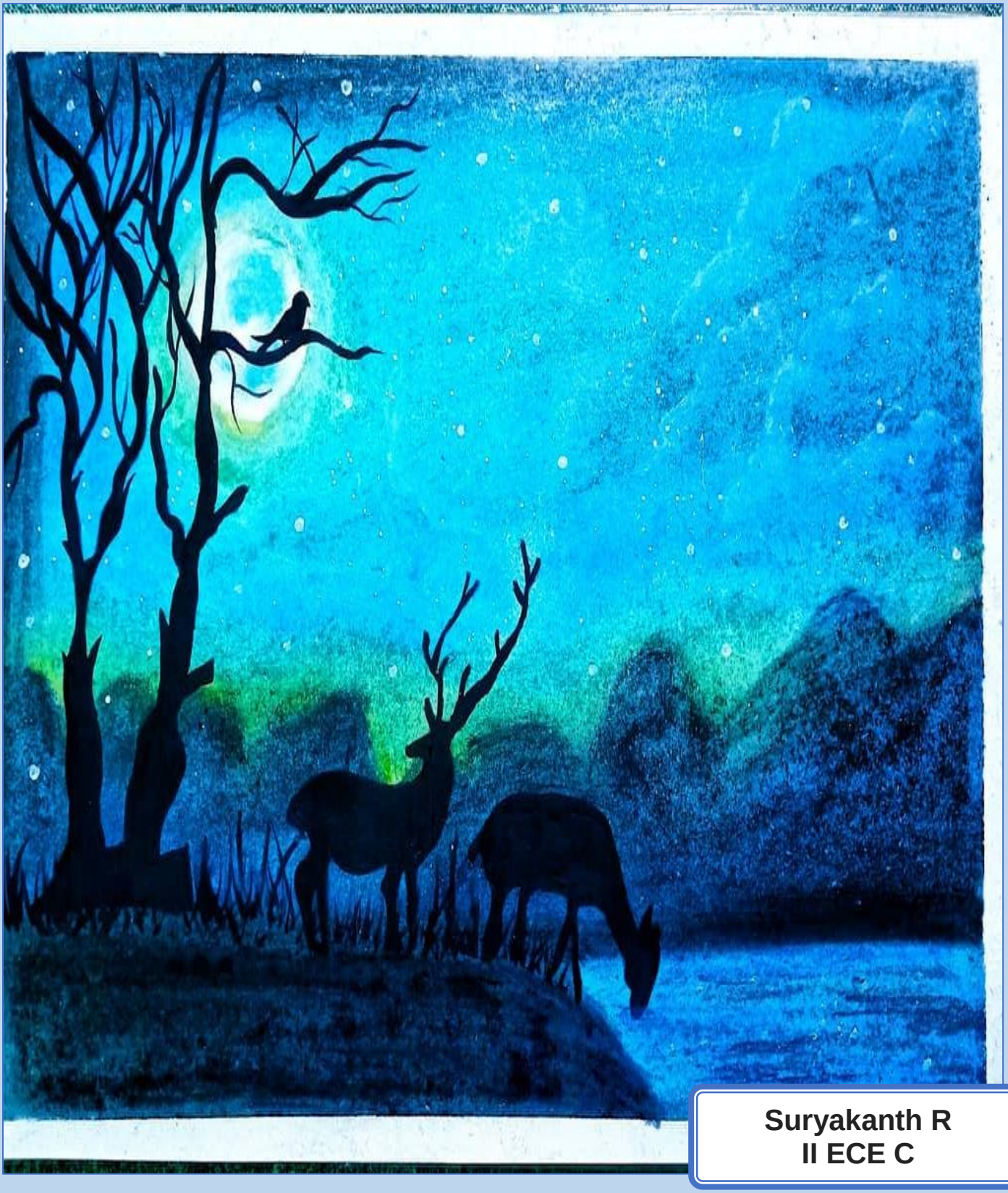

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