SKCET Buzz

04th - 09th NOVEMBER 2023

INSIDE THE ISSUE

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MECH | FORMULA KART DESIGN CHALLENGE

Team **Gepard Racing** comprising of 27 students of SAE INDIA SKCET Collegiate Club from the Department **of Mechanical Engineering has secured four awards in the National Level "Formula Kart Design Challenge (FKDC 2023)"** organized by the Fraternity of Mechanical and Automotive Engineers(FMAE) from 29.10.2023 to 02.11.2023. The static events was held at Kumaraguru College of Technology and the final event was held at Kari Motor Speedway Racetrack, Coimbatore. The team was mentored by **Dr. R. Soundararajan**, Professor and **Mr. A. Sathish Kumar**, Assistant Professor, Mechanical Engineering.

The team secured Overall Runner up in

1. **Endurance and Fuel Economy**
2. **Acceleration test**
3. **Design and CAE presentation and**
4. **Cost presentation**

MECH | FORMULA KART DESIGN CHALLENGE

1.Ajay Karthikeyan V, IV MECH	15.Nishanth A C, III MECH
2.Mahi Kaarthik G, IV MECH	16.Vinothan M, III MECH
3.Induprakash S, IV MECH	17.Visakan N, III MECH
4.Prajwal P G Shastry, IV MECH	18.Uvan Kumar S, III MECH
5.Praveen D, IV MECH	19.Sudhan V, III MECH
6.Bhuvaneswar B, IV MECH	20.Saba Nadesan S, III MECH
7.Abinav R, IV MECH	21.Vethamurthy S, II MECH
8.Pradeep P, IV MECH	22.Simson Arul Jones A, II MECH
9.Rishi Bala T, IV MECH	23.Sathyanarayanaan J, II MECH
10.Nisanth N T, IV MECH	24.Sheikh Mohammed Shahrukh S, II MECH
11.Rakesh G, IV MECH	25.Sarvesh Sudan R, II MECH
12.Ruba Vignesh MK, IV MECH	26.Shajeeth S, II MECH
13.Surya R, III MECH	27.Nitheesh G, III MECH
14.Prasannavenkatesh M, III MECH	

CSE | CHESS TOURNAMENT 2023

Sundarakrishnan R.M, student of **Third** year **CSE** has **won First Position** in the **Chess Tournament 2023** in Under 19 category held at **C.M.S Vidhya Mandir Matric Hr. Sec. School**, Maniyakaranapalayam, Coimbatore on 15-11-2023.

CSE | CHESS ZONAL TOURNAMENT

Sundarakrishnan R.M, student of **Third** year **CSE** has **won Second Place** in the **Chess Zonal Tournament** conducted by **Anna University Zonal Tournaments 2023-2024** held at Arjun College of Technology on 3-11-2023.

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CIVIL | NATIONAL LEVEL MIX DESIGN AND CUBE COMPETITION
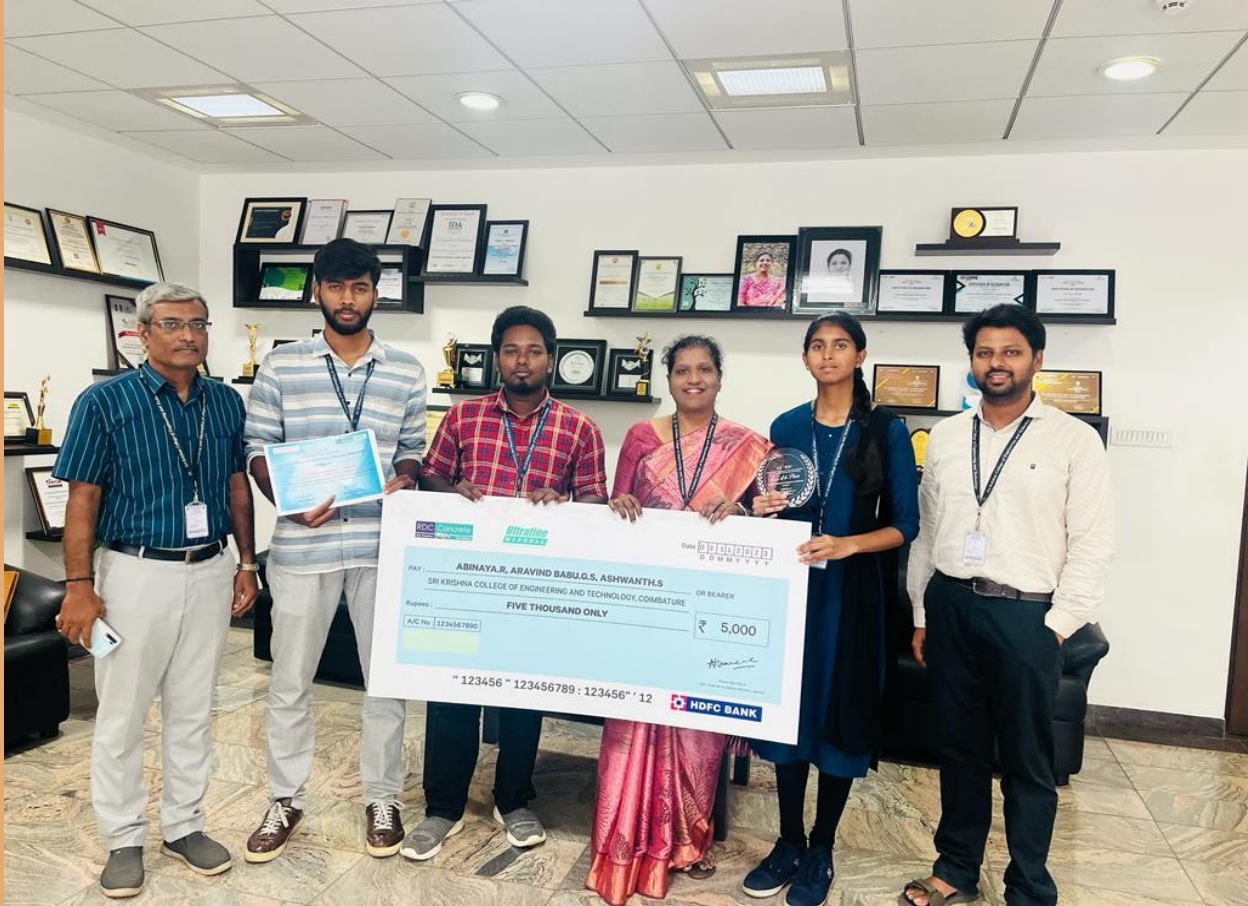
Final year student team of **Civil Engineering** Department has won **4th place** in the **ICI - RDC National level Mix Design and Cube competition**. The award ceremony was held at IIT Madras on 03.11.2023. The team received a cash prize of Rs.5000/-, a memento and a certificate of appreciation.

Team members:

- Abinaya R
- Aravind babu G S
- Ashwanth S

Team Mentor:

Mr. R. Vighnesh, Assistant Professor, Civil Engineering

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IT | INFOSYS CERTIFICATION

Sabari Raj N and **Soma Sundari R** , students of **IT** Department have sucessfully completed a course on **"UML - Unified Modeling Language Training"** certified by Infosys springboard.

AI&DS | INFOSYS CERTIFICATION

Nivetha Raja, I Year Student of **AI&DS** has successfully completed the course on **"Blockchain 101"** certified by Infosys Spring board on 01.11.2023.

IT | INFOSYS CERTIFICATION

Yashini C, Shrivin Raagav A V students of **First** year **IT** have successfully completed a course on **"Computer Fundamentals"** certified by Infosys springboard.

AI&DS | INFOSYS CERTIFICATION

Magilavan M, student of **First** year **AI&DS** has successfully completed a course on **"Digital Electronics - Online Digital Electronics Courses"** certified by Infosys.

IT | INFOSYS CERTIFICATION

Sree Ilakkiya A, Sibittha N R, First year students of **IT** have successfully completed a course on "**Computer Devices**" certified by Infosys springboard.

AI&DS | INFOSYS CERTIFICATION

Sanjay M, First year student of **AI&DS** has successfully completed the course on **"MySQL as a Datastore"** certified by Infosys Spring board on 11.10.2023.

CSE (CSY) | UDEMY CERTIFICATION

Sabari.N, student of Second year, **Computer Science and Engineering (Cyber Security)**, has successfully completed **Python Data Structures & Algorithms** and **LEET CODE Exercises** organized by Udemy on Nov 3,2023.

AI&DS | INFOSYS SPRING BOARD

Sahaana SS and **Pooja Sri M,** student of **First** year **AI&DS** has successfully completed a course on **"Ethical, Privacy & AMP; Intellectual Property considerations for Chat GPT"** certified by Infosys Spring board on 05.11.2023.

CSE (CSY) | INFOSYS CERTIFICATION

Trisha N, Vignesh S, Kaviya Rengaraj, Priyadharshika L T, Sailesh B, Srivathsan Kumaresan, students of First year Computer Science and Engineering (Cyber Security) has successfully completed a Course on "Basics of Python" organized by Infosys Spring Board on Sep 29,2023

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EVENTS

CIVIL | GREEN DIWALI CELEBRATION

Civil Engineering students of SKCET celebrated Green Diwali with tribal school children at Govt. Middle School, Kondanur. The event was organised by **Social Club - Eagai and Eco - Green Club - Mannvaasam.** 40 students and faculty members conducted various events in the school. Awareness sessions on **air pollution, waste management, plastic pollution, tree plantation drives and games** were conducted for students. The event witnessed a celebration without bursting crackers and encouraged the students to avoid crackers and protect the environment by reducing pollution and safeguarding birds and animals in the forest regions. Prizes and sweets were distributed to the winners of each event. Nearly 80 students from 1st STD to 8th STD participated in the event.

ECE | SEMINAR ON PCB DESIGNING AND REVERSE ENGINEERING

Department of **Electronics and Communication Engineering** organized a Seminar and Hands-on session on **"PCB Designing with Reverse Engineering"** by Pumo Technovation, Coimbatore on 03.11.2023. Resource person of the day **Mr. Balamurugan T S,** Senior Project Manager Pumo Technovation, Coimbatore addressed the students. Increasing Demands and challenges in Reverse Engineering, New trends in PCB layout simulation and design, Career Opportunities in Reverse Engineering and Hands-on training on PCB design tool – Altium were the highlights of the session.

ECE | WORKSHOP ON INTRODUCTION TO UNIVERSAL ROBO LEAGUE

Department of **Electronics and Communication Engineering** organized a Workshop on **"Introduction to Universal Robo League"** powered by Robomatic, Coimbatore on 03.11.2023

The chief guest of the day **Mr. Celestine**, Robomatic Pvt Ltd, Coimbatore addressed the students. Emerging Technologies in Digital World,Societal Impact of Robots, Robotics with AI and ML,Human Robot Interaction and Collaborative Robots (CoBots) were the highlights of the session.

EEE | RECREATION CLUB ACTIVITY

Department of **EEE - Recreation Club** organized a series of events - **"Brainy Bowl, Blow the Ball and Pickup drop balloon challenge"** on 27.10.23 for the Second year students to revive and rejuvenate. The students enthusiastically participated and experienced the ecstasy in great zeal.

MECH | VALUE ADDED PROGRAM ON ADDITIVE MANUFACTURING
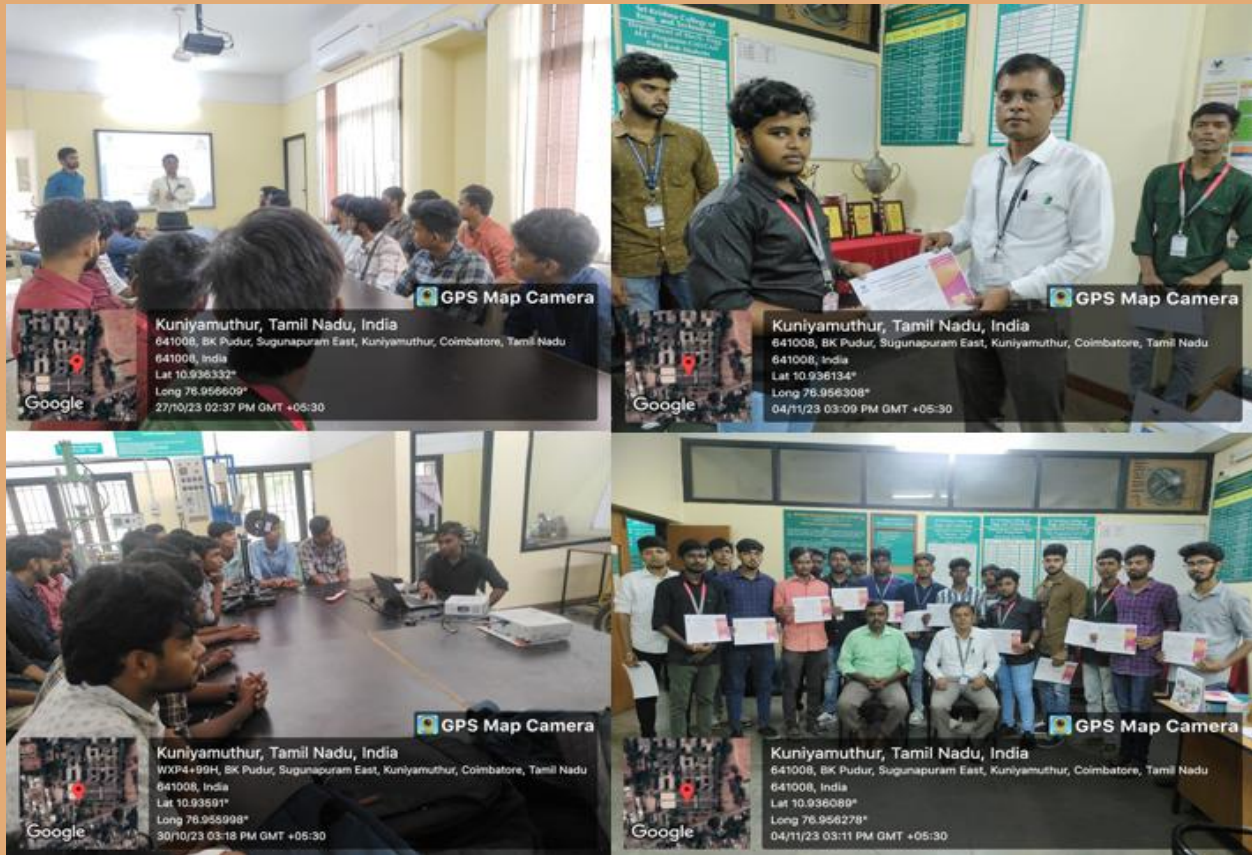
Department of **Mechanical Engineering** in association with **Marvel Additive System**, Coimbatore organized a value added course on **'Mastering Additive Manufacturing : A Practical Design Approach'** from 27.10.2023 to 04.11.2023. **Mr. R.S.T.Harinishok**, Founder & Chief Operating Officer, Marvel Additive System, Coimbatore was the Resource Person of the session. **Dr. R. Soundararajan** and **Mr. N. Babu**, faculty members of Mechanical Engineering coordinated the event.

The session concentrated on:
➢ Overview of AM and their applications in aerospace and defence sector.
➢ Design & Slicing of Critical components
➢ Part Design using Solidworks
➢ Hands on training on 3D printing
➢ Design and develop critical parts using 3D printing
➢ Industrial Visit & Interaction

S&H | EXTENDED HOUR ACTIVITY

Fitness Club of **SHA** conducted **Arm Wrestling** for the **First** year students on 3.11.2023. The event aimed to promote physical fitness, camaraderie and sportsmanship among the students.

MECH | WORKSHOP ON SOCIO - TECHNICAL CYBER SECURITY AND RESILIENCE IN IOT

Society of Automation and **Robotics Club** of the Department of **Mechanical Engineering** conducted an enriching workshop on the title **'Introduction to Socio-technical cyber security and Resilience in IoT'** on 07.11.2023. **Mr. Arun Balaji,** CEO, Yoi Robotics Laboratory and **Dr. Abdul Wahab Johny,** Research Coordinator, AICRA were the resource person of the event. **Second** year students from the Department of **Mechanical Engineering** attended the workshop. The session enlightened the students with the basic ideas of Robotics, Home Automation, Technosium Event and Start-up Methodology.

S&H | EXTENDED HOUR ACTIVITY
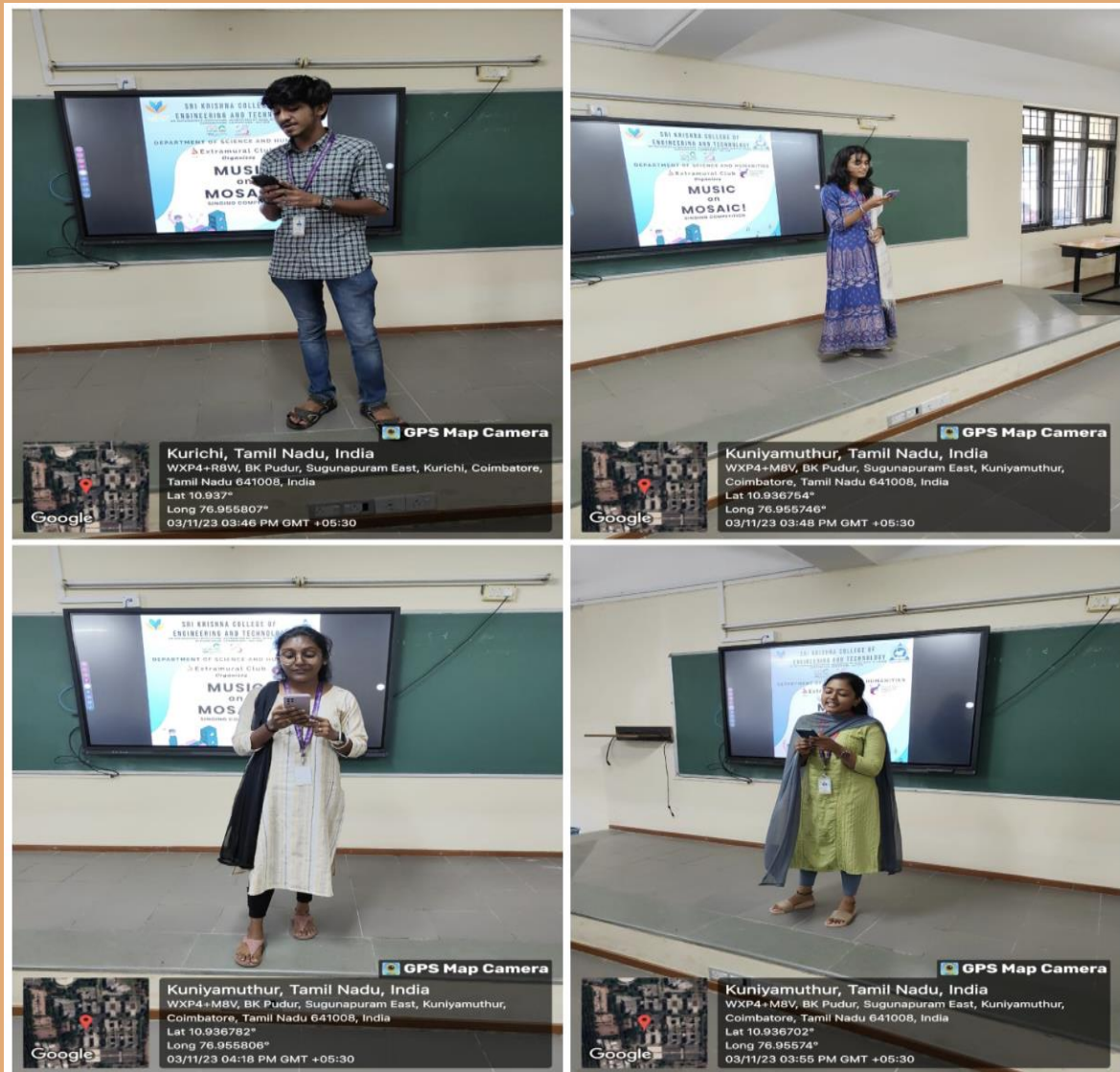
Extramural Club of **SHA** conducted a **Singing Competition - Music on Mosaic** for the **First**-year students on 03.11.2023. The event aimed to provide a platform for budding musicians to display their vocal prowess and featured a wide array of musical genres, including classical, pop, and fusion, showcasing the diverse musical tastes and abilities of the students. It also promoted a sense of unity among the students.

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PLACEMENT AND TRAINING

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EEE | TESTIMONIAL BY PLACED STUDENTS

My journey at SKCET has been nothing short of transformative. The education and unwavering support I received there positioned me for a remarkable career at Mu Sigma Pvt Ltd. Thanks to the institution's dedication to excellence, I secured a coveted position at Mu Sigma Pvt Ltd even before graduating.

The practical experience and extensive networking opportunities facilitated by the SKCET were pivotal in my professional growth. I take immense pride in being an alumnus of SKCET and firmly believe it's the perfect launchpad for anyone aiming to thrive in a company like Mu Sigma Pvt Ltd.

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 EEE department. I genuinely thank my tutors **Mr. S. Karthikeyan** and **Ms. C. Pavithra**, Coordinator, **Dr. J. Karthika** , my HOD **Dr. K.C. Ramya**, my professors and all my friends for their immense support and making my college life a happy memory.

JAYASURYA R
EEE (2024 Batch)
Mu Sigma Pvt Ltd (5-8LPA)

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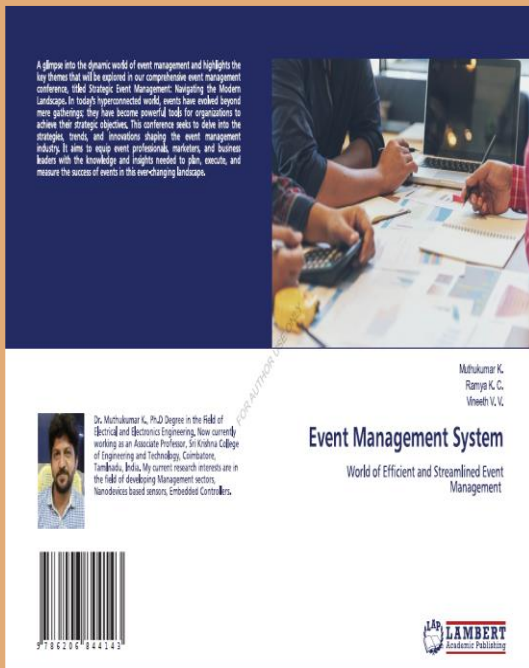
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R&D | BOOK CHAPTER PUBLICATION | EEE

Dr. K C Ramya, Professor & Head, **Dr.K.Muthukumar** Associate Professor and **Mr.V.V.Vineeth** Assistant Professor, **EEE** Department has published a book chapter entitled **"Event Management System"** by Lambert Academic Publishing ISBN: 978-620-6-84414-3.

R&D | PAPER PUBLICATION |ECE

Dr.M.Ramkumar, Associate Professor, Department of **ECE**, has published SCI and Scopus indexed Journal titled **"Deep volcanic residual U-Net for nodal metastasis (Nmet) identification from lung cancer"** in the Biomedical Engineering Letters. DoI: https://doi.org/10.1007/s13534-023-00332-5.
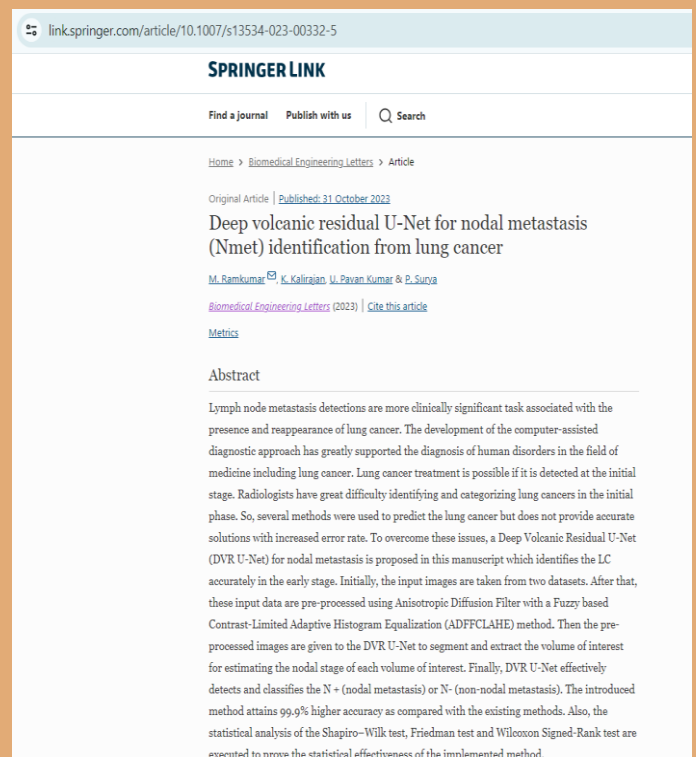
R&D | SCIENTIFIC ARTICLE PUBLICATION | MECH

Mechanical, Drop Load Impact and Fatigue Properties of Silane-treated Chitosan and Waste Leather and Areca Fibre Epoxy Composite

P. Surianarayanan[1] · N. Balaji[2] · K. Balasubramanian[2]

Abstract
The major objective was to study how adding silane-treated CCP and a hybrid blend of fiber and leather would improve the epoxy biocomposite's mechanical and ballistic resistance. Fiber and tanned leather were treated with silane and composites were made via the hand layup method. The fibre and leather was laid by two different sequence and the composites were cured at elevated temperature. Results revealed that the Areca/Leather/Areca (ALLA) stacking sequence of 1.0 vol. % of CCP significantly improved the composite's mechanical properties. The low-velocity impact capability was significantly increased by the hybridization of fiber and leather, reaching 11.8 J for untreated reinforcements and 12.44 J for reinforcements treated with 1.0 vol.% of CCP. Similarly, the maximal fatigue life count of 36,131 was achieved by adding 1.0 vol. % of CCP to the ALLA sequenced composite. The research indicates that the best outcomes are achieved by using hybrid layup configuration of Areca/Leather/Areca and silane-treated 1.0 vol.% CCP. These composites with increased ballistic resistance and toughness could have potential utility in domains such as automotive industries, defense and structural, where high toughness is required.

Keywords PMC · Fibre · Leather · Filler · Impact damage · Fatigue

Dr.N.Balaji and **Dr.K.Balasubramanian**, Professors, **MECH** have published a scientific article entitled **"Mechanical, Drop Load Impact and Fatigue Properties of Silane-treated and Waste Leather and Areca Fibre Epoxy Composite"** in Silicon – A Springer Publication. It is a SCI, WoS and Scopus Indexed Journal with an Impact Factor 3.4. The Journal is also listed in Anna University Annexure 1.

R&D | GRANT OF DESIGN PATENT | MECH

Dr.K.P.Yuvaraj, Associate Professor, **MECH** has been Granted an International Design Patent titled **"Smart pulse oximeter with data storage and wireless access"** by Intellectual Property Office, United Kingdom.

R&D | UK DESIGN PATENT GRANT | CSE
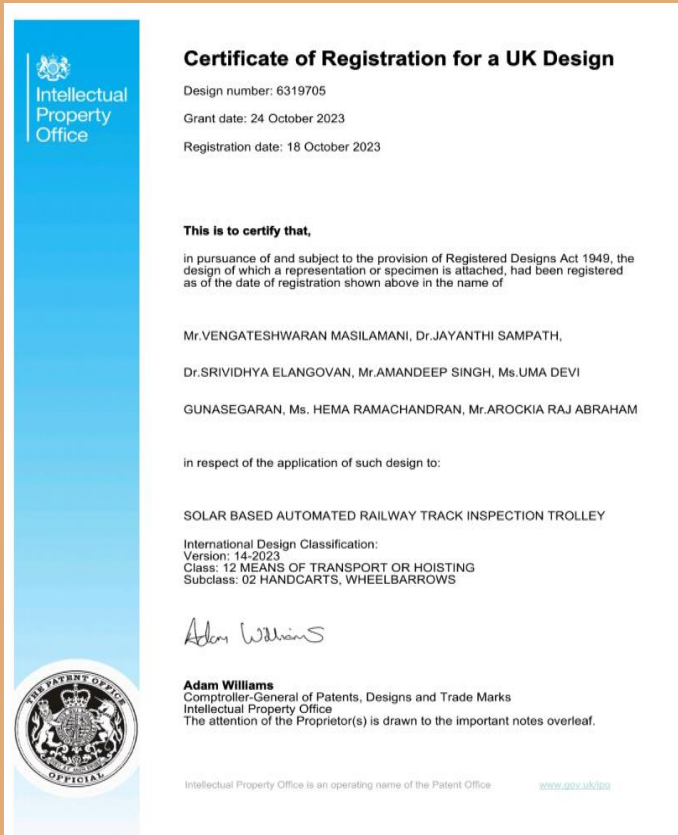
Patent titled **"Solar Based Automated Railway Track Inspection"** filed by **Mr.Vengateshwaran M,** Assistant Professor, **CSE** has been granted certificate of Registration for UK Design, Design Number: 6319705, Grant Date: 24th October 2023.

R&D | INDIAN DESIGN PATENT GRANT | CSBS

Dr.S.Balakrishnan, HoD**, CSBS & CSY** has received the Certificate of Registration of Design by the Patent Office, Government of India on 26/08/2023.

R&D | PAPER PUBLICATION | M.TECH CSE

Dr.D.Prabha, Professor, Department of **M.Tech Computer Science and Engineering** has successfully published a journal titled "**An Optimized Bagging Learning with Ensemble Feature Selection Method for URL Phishing Detection**" dated 2.11.2023 in springer Journal named Journal of Electrical Engineering and Technology.

Home > Journal of Electrical Engineering & Technology > Article

Original Article | Published: 02 November 2023

An Optimized Bagging Learning with Ensemble Feature Selection Method for URL Phishing Detection

Ponni Ponnusamy & Prabha Dhandayudam

Journal of Electrical Engineering & Technology (2023) | Cite this article

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Abstract

This study proposes and implements an ensemble feature selection with a bagging classifier for URL phishing detection. Feature Selection is essential for reducing data's dimensionality and improving any proposed framework's performance. The feature selection stability is improved by using the ensemble feature selection method. In this work, Aggregation decides the final ranking of the ensemble feature selection by using four standard filter methods. Bagging classifier used for URL phishing dataset and accuracy of the model is determined with aggregation ranked features. In proposed work details the ensemble feature selection methods that embed with optimized ensemble bagging learning. The hyperparameter of the bagging classifier, such as multiple estimators with random patches, random subspaces, bagging, or bootstrap aggregation and pasting, are tuned, which produces the better performance model. The evaluation and comparison of experimental results showed the effectiveness of our

Sections | Figures | References

Abstract

Data Availability Statement

References

Acknowledgements

DID YOU KNOW?

Did you know?

THERE ARE SO MANY DIFFERENT TYPES OF APPLE IF YOU WERE TO EAT A NEW ONE EVERYDAY IT WOULD TAKE YOU ALMOST 20 YEARS TO TRY THEM ALL.

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CSBS | RESOURCE PERSON - INTERNATIONAL CONFERENCE ON SDG 12

Dr.S.Balakrishnan, **HoD**, **CSBS & CSY** has been recognized as a Guest Speaker / Judge in the International Conference on SDG 12 - Responsible Consumption and Production organized by Value Education Cell, SRM Institute of Science and Technology, Kattankulathur on 2nd November 2023.
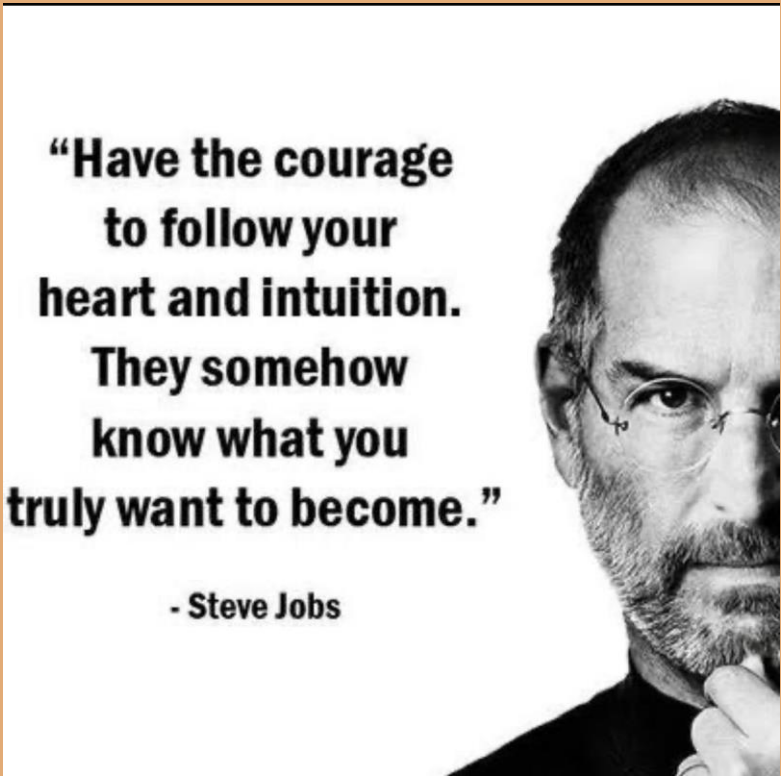
CSE | RESOURCE PERSON - EXCEL ENGINEERING COLLEGE

Dr.N.Kousika, Assistant Professor, **CSE** has served as **Resource Person** for **Academic Guest Lecture on** "**R-Programming**" at Excel Engineering College, Erode on 26-10-2023.

CSE | RESOURCE PERSON- SEMINAR

Mr.M.Vengateshwaran, Assistant Professor, **CSE** has served as Resource Person for a Seminar on **"Unveiling New Avenues of Next Generation High Performance Computing"** at Sree Sakthi Engineering College, Coimbatore on 7-11-2023.

LEGENDARY INSIGHT

"Have the courage to follow your heart and intuition. They somehow know what you truly want to become."

- Steve Jobs

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ECE | COURSERA CERTIFICATION

Ms G Saranya, Assistant Professor, Department of **ECE** has completed a Coursera course on "**Fundamentals of Machine Learning for healthcare**" organized by Stanford University Online.

M.Tech CSE | COURSERA CERTIFICATION

Ms.T.Dureen V Rayen, Assistant Professor, Department of **M.Tech Computer Science and Engineering** has successfully completed a certification course titled **"Exploratory Data Analysis for Machine Learning"** through Coursera platform in association with IBM on 30.10.2023.
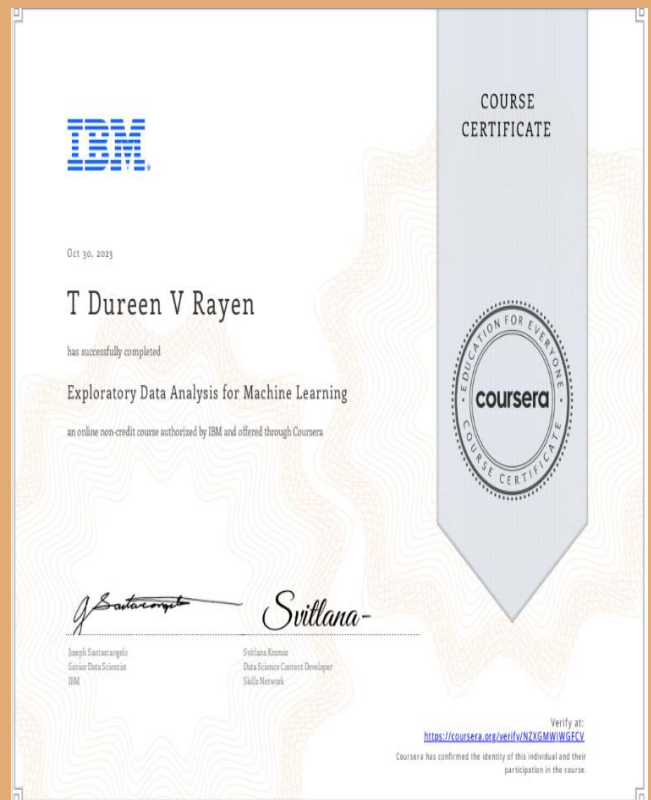
CSE | FACULTY DEVELOPMENT PROGRAM

Mr.M.Vengateshwaran, Assistant Professor, **CSE** has attended One week Virtual Interdisciplinary Faculty Development Program on **"Challenges and Opportunity in Electric Vehicle"** Organized by Department of **Electrical and Electronics Engineering,** K.S.R College of Engineering, Tiruchengode, during the period of 9th to 14th October 2023.

IT |INFOSYS CERTIFICATION

Dr.K.N.Sivabalan, Professor **& Mr.Shiva Shankar S,** Assistant Professor, **IT** has sucessfully completed the course on **"Explore Machine Learning using Python & UML-Unified Modeling Language Training"** certified by Infosys springboard.

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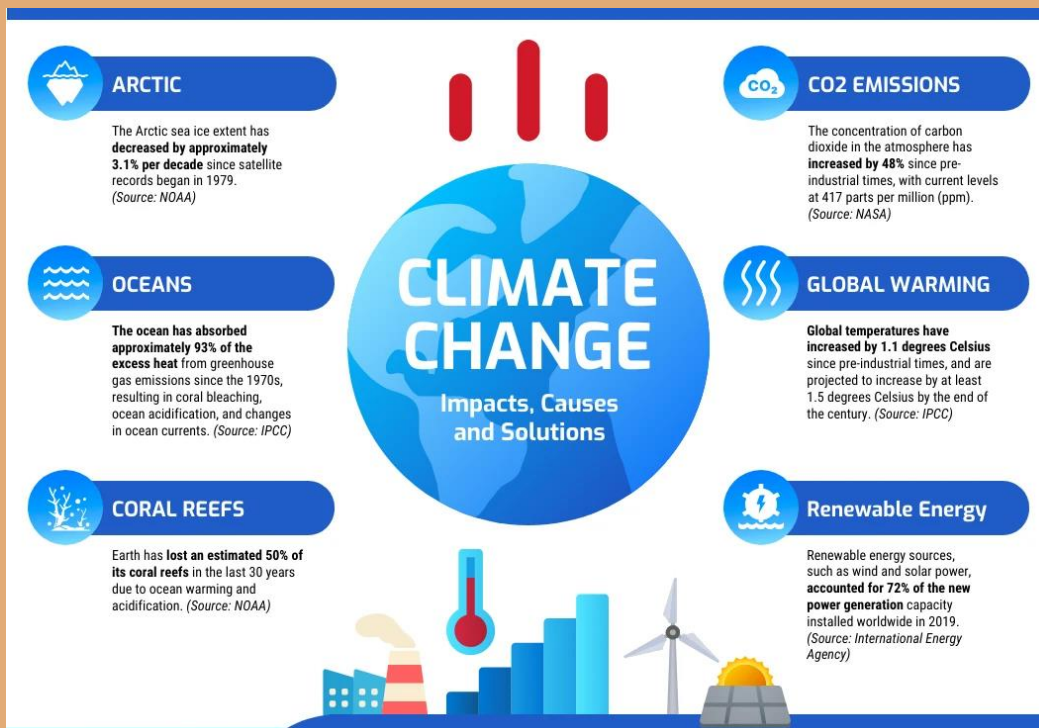
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EEE | CONFERENCE PRESENTATION

Mr.R.Kavin, Assistant Professor, **EEE** Department has presented a research paper entitled **"Enhancing Productivity Through Convolutional Neural Network-based Classification and Detection of Strawberry Plant Diseases"** in the 1st IEEE International Conference on Multidisciplinary Research in Technology and Management-MRTM 23, organized by New Horizon College of Engineering, Bengaluru on 22-09-2023 and 23-09-2023.

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