

SKCET



17th - 23rd February 2024



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INSTITUTIONAL EVENTS



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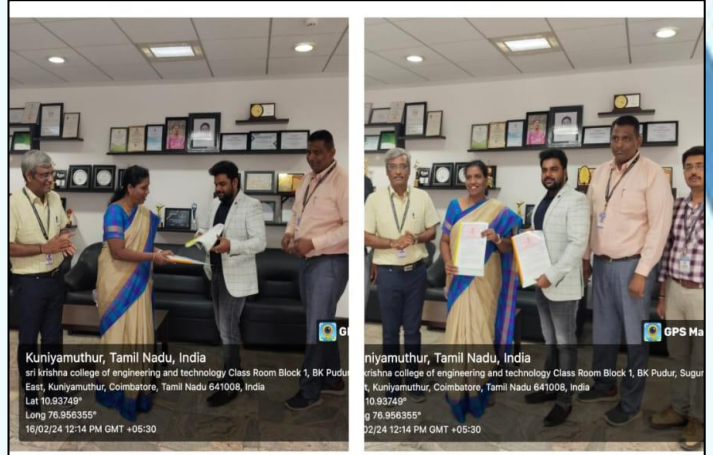


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CIVIL | MOU WITH PUMO TECHNOVATION

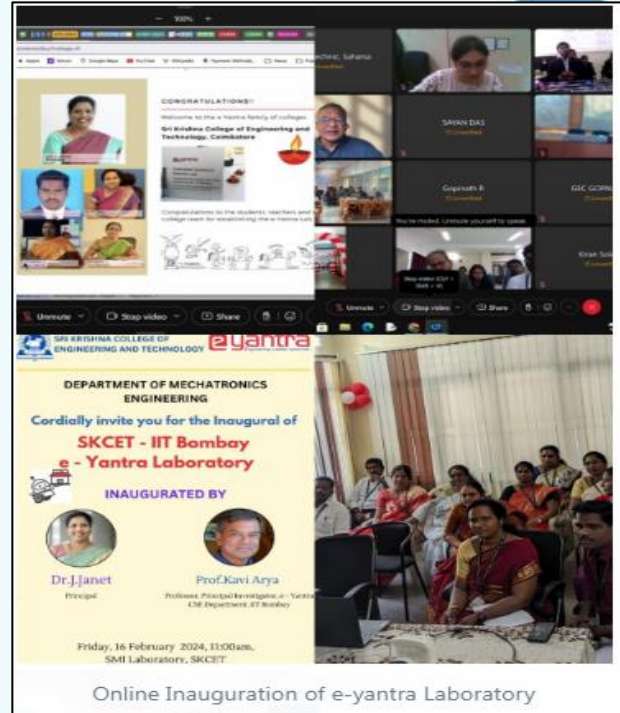
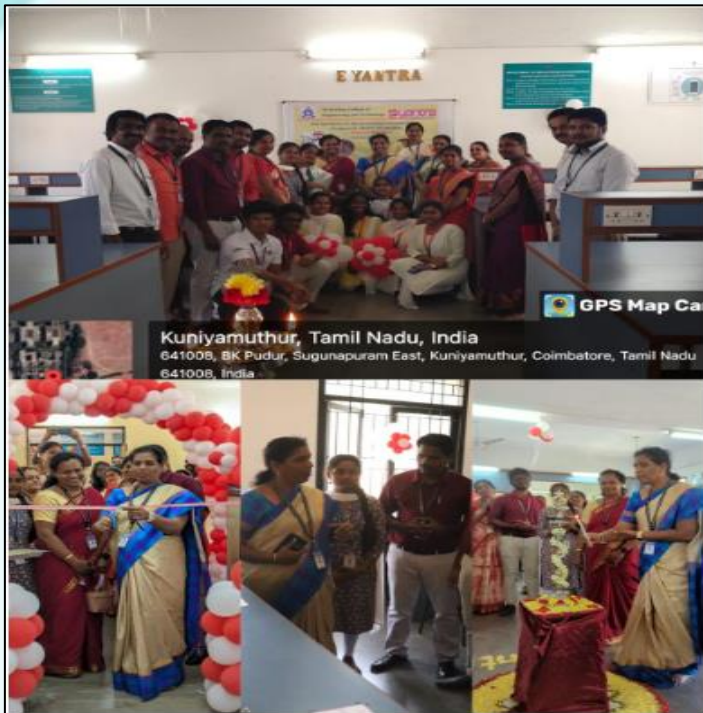


Department of **Civil Engineering** has signed an MoU with PUMO Technovation, a Technical Consulting Services Company - Coimbatore on 16.02.2024. **Mr.R.Mohankumar**, Founder and CEO of PUMO Technovation and **Principal Madam Dr. J. Janet** signed and exchanged the MoU.

Outcomes of the MOU:

- Technical field training for Civil Engineering students
- Industry expert sessions
- Seminars and Workshops
- Internships

MCT | E- YANTRA LABORATORY



Department of **Mechatronics Engineering**, in collaboration with IIT Bombay, proudly inaugurated the **e-Yantra Laboratory**. **Principal Madam Dr. J. Janet**, presided over the ceremony. **Prof.Kavi Arya**, Professor, Principal Investigator, e – Yantra, CSE Department, IIT Bombay inaugurated the lab virtually. Yantra Laboratory marks a significant milestone in the Institution's journey, as it

- Provide opportunities for 10 students and 4 faculty members to undergo thorough training in Robotics and Embedded Systems.
- Initiative, supported by funding from the Ministry of Education, aligns with the ethos of 'Learn by doing,' which is integral to our educational philosophy at SKCET.
- Provide hands-on experience and exposure to cutting-edge technologies, the e-Yantra Lab equips participants with the necessary skills and knowledge to excel in the field of Robotics.
- Empower to actively engage in various Robotics competitions, fostering a culture of innovation and excellence within our academic community.

CIVIL | MOU WITH V.K.P. GEOTECH



Department of Civil Engineering has signed a Memorandum of Understanding with **V.K.P. GEOTECH**, a Geotechnical Consulting Services Company on 12.02.2024. **Principal madam Dr.J.Janet** and the Managing Director of V.K.P. GEOTECH Mr. P. Nandakumar exchanged the MoU.

OUTCOMES OF THE MOU:

- Geotechnical field training to the students and faculty members of Civil Engineering Department of SKCET.
- Industry-Institute interaction between the industrial experts of V.K. P. GEOTECH with our academic faculty experts of Civil Engineering Department of SKCET

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AI&DS | NATIONAL LEVEL TECHATHON 2024



K.R.Geethan, R.Pravin Raj, R.Prajwal Raj and T.Naveen, students of Third year and First year AI&DS have actively participated in the 24 Hour National Level Techathon 2024 conducted from 17.02.2024 to 18.02.2024 organized by INNOVATION FOUNDATION PUNE.

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EEE | GO-KART DESIGN CHALLENGE



Student team **Gandiva** from the Department of **EEE** has enthusiastically participated and won prizes under the following categories in the National Level Event - 11th Go Kart Design Challenge (GKDC) 2024 held at Kari Motor Speedway Racetrack, Coimbatore from 15.02.2024 to 19.02.2024.

- Best Innovation Award
- Best Driver Award
- Second Place in Skip Pad
- Second Place in Auto Cross
- Second Place in Disassembly.

Faculty Mentors:

- Dr. Ramji Tiwari, AP/EEE
- Mr. Boobalan, AP/EEE

MCT | GO-KART DESIGN CHALLENGE



Team Brainiacs from the Department of **MCT** has enthusiastically participated and won prizes under the following categories in the National Level Event - **11th Go Kart Design Challenge (GKDC) 2024** held at Kari Motor Speedway Racetrack, Coimbatore from 15.02.2024 to 19.02.2024.

Team BRAINIACS

- Over all Second Runner up
- Winner of Endurance - EV Category

Faculty Mentors:

- Mr. T Vignesh, AP/MCT
- Dr. R Gopinathan, ASP/MCT

IT | TECHNICAL EVENT - KEY CHARADES



Ajay Vijayaraj V, student of Third year IT A has secured **Second** prize with a cash reward of Rs.1500 “Key Charades” held at Melinia 24 Technical event conducted by Coimbatore Institute of Technology, Coimbatore.

IT | WOMEN’S MARATHON



Pujaa S M, student of **Second** year IT has participated in the “**3KM Coimbatore Women’s Marathon**” on 17-02-2024 organized by Gem Foundation Coimbatore.

MECH & MCT | ELECTRIC TWO-WHEELER DESIGN COMPETITION



Team ElectroVolt and ThunderVolt (20 students) from the Department of **Mechanical & Mechatronics Engineering** Department representing SAEINDIA SKCET Collegiate Club secured Two Awards and have achieved Overall 4th and 5th place in the SAE INDIA Southern Section National Level **Electric Two-Wheeler Design Competition (ETWDC 2024)** organized from 17.02.2024 to 18.02.2024 hosted at Rajalakshmi Engineering College, Chennai.

- First prize in the Maneuverability test with a cash prize of Rs.10,000 (Team ElectroVolt)
- Third prize in the Endurance test with a cash prize of Rs.5,000 (Team ThunderVolt)

Team members (Electrovolt)

- | | |
|-----------------------------|--------------------------------|
| 1. Padmaraj K S – IV MECH | 2. Gayathri S S – I MECH |
| 3. Gurunathan L – IV MCT | 4. Jagadeeswaran K – II MECH |
| 5. Jai Sanjai J – III MECH | 6. Jebeen Dhas A – II MECH |
| 7. Mahendra J P – III MECH | 8. Mohammed Ashiq E – III MECH |
| 9. Mohamed Izaz H – IV MECH | 10. Nithish Kumar R – IV MECH |
- Team Mentor: Dr.A.Sathishkumar, AP/MECH

Team members (Thundervolt)

- | | |
|--------------------------------|-----------------------------------|
| 1. Pravin B – IV MECH | 2. Abinov R II MECH |
| 3. Abishek A P – II MECH | 4. Dinesh Kumar M – III MECH |
| 5. Kalathieswaran R – III MECH | 6. Karthick Kumar S – II MECH |
| 7. Maharaj T – III MECH | 8. Mukesh Kannah K – IV MECH |
| 9. Ratchagan M – IV MECH | 10. Riya Sampreetaa V A – II MECH |
- Team Mentors: Dr.R.Soundararajan, ASP/MECH

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EEE | E-KART CLUB ACTIVITY



Department of **EEE** conducted an external review for the students involved in a groundbreaking vehicle fabrication project. The students successfully designed an indigenous E-Kart to compete in the prestigious ISNEE Go Kart Design Challenge at the National level event to be conducted in Coimbatore. **Dr. S. Kumaravel**, a distinguished Professor from the Department of Electrical Engineering at the **National Institute of Technology (NIT)**, Calicut, conducted a review at the EV & Drives lab. With a strong emphasis on innovation, he stressed the importance of optimizing battery and motor efficiency, as well as integrating smart technologies to enhance vehicle speed and energy utilization. Additionally, he underscored the significance of selecting appropriate communication protocols for seamless integration within the electric vehicle system. He also shared his inspiring journey and career guidance to motivate the student team.

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EEE | INTERNSHIP ON ROBOTICS AND AUTOMATION



Team of 10 students from **Second** year **EEE** have attended two-week internship on **Robotics and Automation** from 12.02.2024 to 23.02.2024 conducted by the Centre for Robotics and Automation in association with the Department of Production Technology, Madras Institute of Technology campus, Anna University, Chromepet, Chennai.

AI&DS | IIT-WORKSHOP



Srinithi R, Pooja Saminathan, Rogith R, Rakshithaa N, Rajkumar S, Naveen T and Prajwal Raj R, students of First year AI &DS have participated in the **Artificial Intelligence Workshop** conducted by IIT Palakkad on January 27th and 28th 2024.

MCT & MECH | INTERNSHIP @ ISRO



Mr. Pon Aswin, Mr. Sudershan K and Mr. Amardin Carlyle V, Final year students of **Mechatronics** and **Mechanical** Departments have successfully completed internship on “**Model Based Design of Antenna Terminal Using Matlab – Simulink**” in the ISRO Telemetry Tracking and Command Network, ISRO from 26.12.2023 to 08.02.24.

CSY | INTERNSHIP ON CYBER CRIME WORKS



Kamil Rahuman M, student of **Second year Computer Science and Engineering (Cybersecurity)** has underwent an **Internship** on Police Department-related subjects in Cyber Crime Works at the Cyber Crime Police Station from February 5th to February 14th, 2024.

AI&DS | WORKSHOP ON LATEST TRENDS IN UAV FOR MOBILITY



K.R.Shriram, student of **Second year Artificial Intelligence and Data Science** has participated in the Two Days Workshop on “**Latest Trends in UAV for Mobility**” organized by PSG College of Technology from 9th to 10th February 2024.

AI&DS | GUVI CERTIFICATION

S.M Nivaashri, student of **Second year Artificial Intelligence and Data Science** has received a certificate of achievement for the successful completion of “**Python Zero to Hero**” by **GUVI Geek Networks** on 07.02.2024.



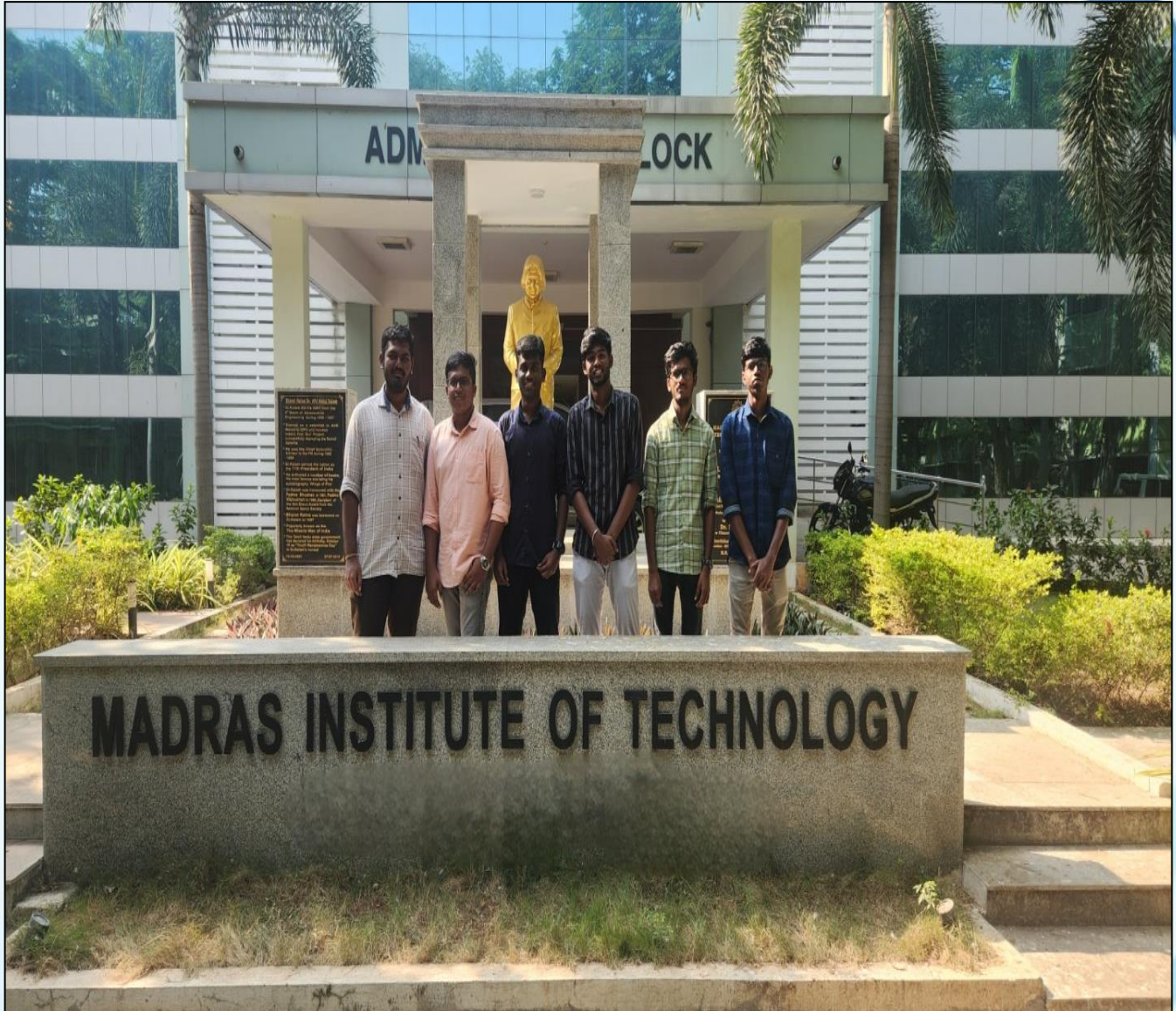
MECH | OPEN LEARN CERTIFICATION



30 students of **Third Year Mechanical Engineering** have successfully completed a complimentary 8-hour course on "**Additive Manufacturing**" from The Open University through online platform. Dr. R. Soundararajan, Associate Professor of Mechanical Engineering, coordinated the students.

- | | |
|------------------------------------|-----------------------------------|
| 1. Abimanyu Gowtham J – III Mech A | 2. Adharsh R – III Mech A |
| 3. Arjun S – III Mech A | 4. Ashwin R – III Mech A |
| 5. Balaji R – III Mech A | 6. Balamurugan M – III Mech A |
| 7. Brawin A – III Mech A | 8. Easwar G V – III Mech A |
| 9. Kabilan V – III Mech A | 10. Krishnamoorthy M – III Mech A |
| 11. Mugesh M – III Mech B | 12. Muthuvel S – III Mech B |
| 13. Niranjan R – III Mech B | 14. Nithiesh R – III Mech B |
| 15. Pradeep P – III Mech B | 16. Prahadheesh C K – III Mech B |
| 17. Priyadharshini S – III Mech B | 18. Saba Nadesan S – III Mech B |
| 19. Sudhan V – III Mech B | 20. Thirupathy M – III Mech B |
| 21. Visakan N – III Mech B | 22. Bhuvaneshwaran V – III Mech A |
| 23. Gokul G – III Mech A | 24. Mahendra J P – III Mech A |
| 25. Mohammed Ashiq E – III Mech A | 26. Praveenkumar S – III Mech B |
| 27. Preethish N – III Mech B | 28. Shivanshu Dabas – III Mech B |
| 29. Subbu Ganesan N – III Mech B | 30. Yogesh S – III Mech B |

ECE | INTERNSHIP @ CENTRE FOR ROBOTICS & AUTOMATION



Lisanth R, Nithish Kumar B, Jothess J B, Nithish Vikraman R S, Navin Rajavel R S, Jotheeswaran VT and Jeffi Donald R S, students of Second year **ECE** have attended two-week internship at the Centre for Robotics and Automation (CRA), MIT Campus, Anna University from 12th February to 23rd February 2024

CSY | WORKSHOP ON AI



Nishanth GE, Muthu Karthik M, Arun S and Pradeep US, students of First year **Computer Science and Engineering (Cybersecurity)** have participated in the **Artificial Intelligence Workshop** conducted by Petrichor'24 Techno Cultural Fest of IIT Palakkad on January 27th and 28th, 2024.

AI&DS | WORKSHOP ON DEEP LEARNING



S.M.Nivaa Shri, Kavin Maithri P, Devanand K.S.J, Soundaryaa S.S, Arvind M, Bharath V, Mohana Priya S, Rakisha R, Samvarthika C, Yaazhini T S and Rangnithilesh R and Priya Dharshini R, students of Second year AI&DS have participated in the “Deep Learning” Workshop organized by Top Engineers- India in Association with IIT Madras on 18.02.2024.

AI&DS | COURSERA CERTIFICATION



S.Mohana Priya and **R.Rakisha**, students of **Second year Artificial Intelligence and Data Science** have successfully completed “**Google Cybersecurity Certificate**” offered by Coursera on 17.01.2024.

CAN YOU SOLVE IT?

Can you solve this riddle?

$$\bigcirc + \bigcirc = 10$$

$$\bigcirc \times \square + \square = 12$$

$$\bigcirc \times \square - \triangle \times \bigcirc = \bigcirc$$

$$\triangle = ?$$

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ECE | FDP ON ADVANCING AI-DRIVEN COMPUTING SOLUTIONS FOR EMBEDDED SYSTEMS AND COMMUNICATION NETWORKS – DAY -1



Department of ECE is organizing a Five days FDP on “Advancing AI-Driven Computing Solutions for Embedded Systems and Communication Networks”.

Session-1: Advancing AI-Driven Computing Solutions for 5G Communication.

Resource Person: Prof. D. Sugumar, Associate Professor/ECE, Karunya Institute of Technology and Sciences (Deemed to be University) Coimbatore.

Session Takeaways:

- Essential role of AI/ML in the 5G, Embedded AI hardware,
- Types of MIMO., AI Applications in 5G

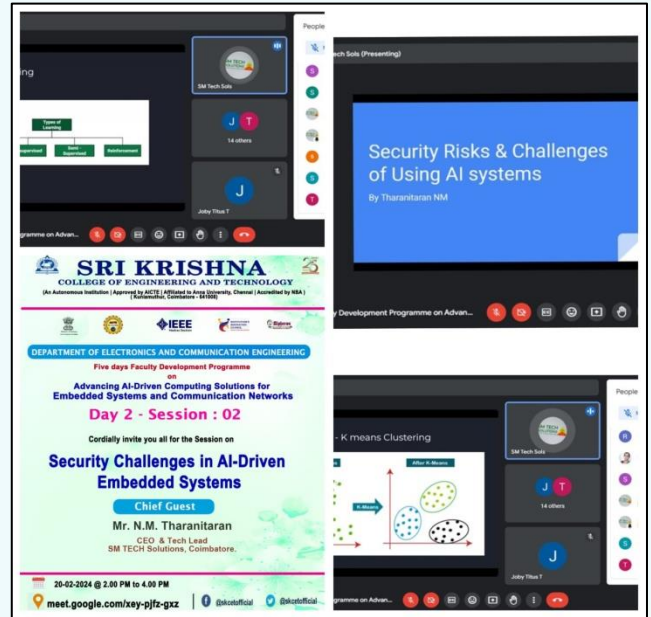
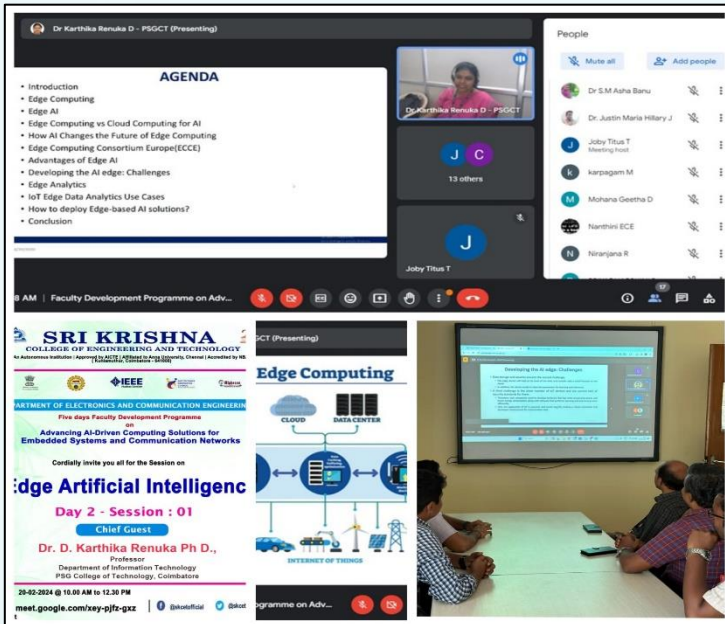
Session-2: Deep Learning Models in Cardiac MRI Application.

Resource Person: Prof. E.Malar, Professor/EEE, PSG Institute of Technology and Applied Research, Coimbatore.

Session Takeaways:

- Overview of Deep Learning Models, Research trends in AI, Challenges and Solutions using AI &ML, Boltzmann machine model, Cardiac MRI Analysis.

ECE | FDP ON ADVANCING AI-DRIVEN COMPUTING SOLUTIONS FOR EMBEDDED SYSTEMS AND COMMUNICATION NETWORKS – DAY -2



Session-1: Edge Artificial Intelligence,
Resource Person: Dr.D.Karthika Renuka Ph.D., Professor/IT department
PSG College of Technology Coimbatore.

Session Takeaways:

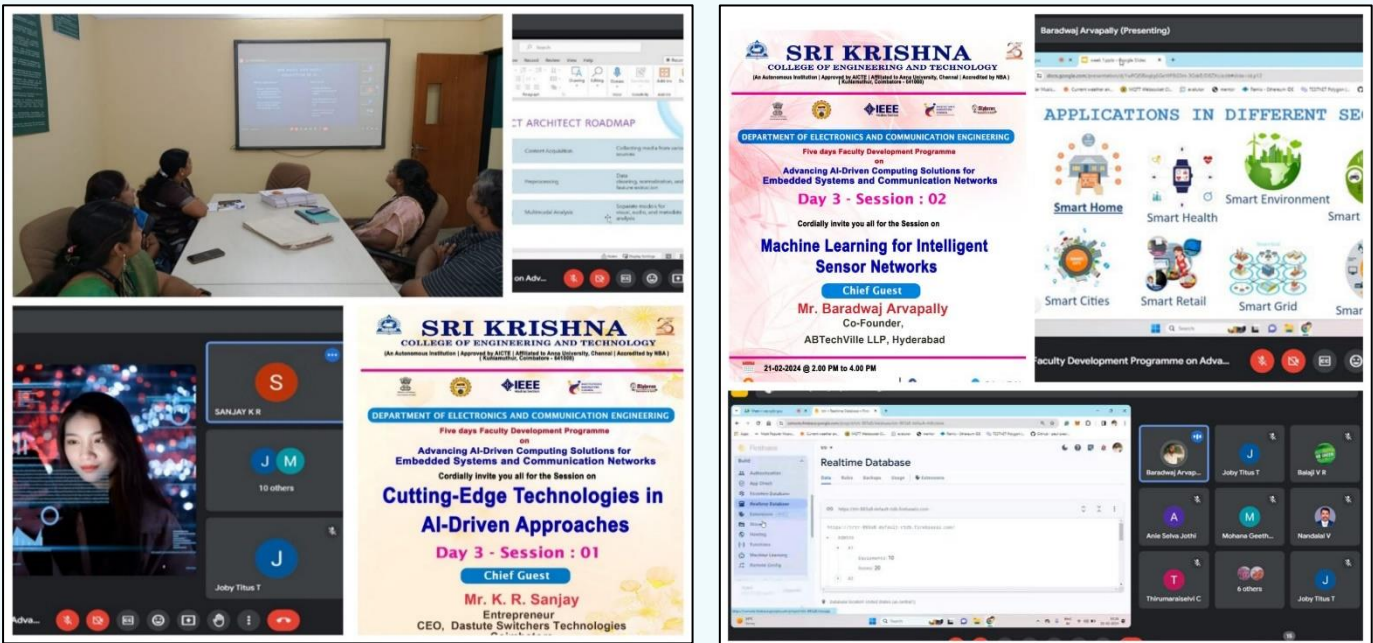
- Overview of Edge computing, Edge Computing vs Cloud computing
- Challenges in Edge Analytics, IoT Edge Data Analytics

Session-2: Security challenges in AI -Driven Embedded systems
Resource Person: Mr.N.M.Tharanitaran, CEO & Tech lead, SM Tech Solutions, Coimbatore.

Session Takeaways:

- Machine learning and Deep learning, Perceptron Model
- Challenges of AI System, Data Privacy and Protection
- Mitigating Strategies

ECE | FDP ON ADVANCING AI-DRIVEN COMPUTING SOLUTIONS FOR EMBEDDED SYSTEMS AND COMMUNICATION NETWORKS – DAY -3



Session 1: Cutting Edge Technologies in AI Driven approaches

Resource Person: Mr. K. R. Sanjay, Entrepreneur, CEO of Dastute Switchers Technologies, Coimbatore

Session Takeaways:

AI in Industry domain, Deep Learning and Neural Networks, Big Data and Data Analytics, Robotics and AI Integration, Startups and Innovations in AI.

Session 2: Machine Learning for Intelligent Sensor Networks

Resource Person: Mr. Baradwaj Arvapally, Co-Founder, ABTechVille LLP Hyderabad.

Session Highlights:

Data Fusion and Sensor Integration, Applications of IOT in different sector Adaptive Sensing, ML algorithms on sensors, Optimized Routing and Communication.

EEE | GUEST LECTURE



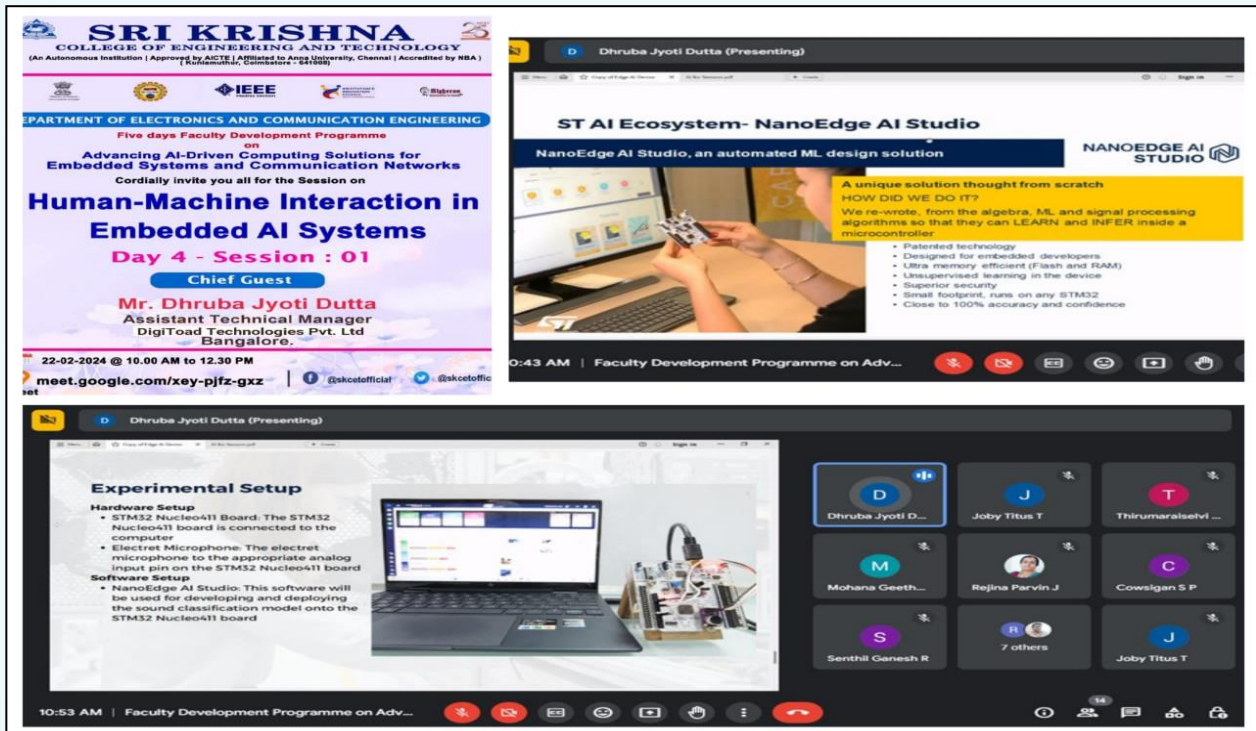
Department of **Electrical and Electronics Engineering** in association with IEEE Power Electronics Society organized a Guest Lecture on '**Energy Management and Energy Auditing**' for Second year EEE students on 15.02.2024.

Resource Person: Dr.S.Kumaravel, Professor / EEE, NIT, Calicut, Kerala.

Session Takeaways:

- Fundamentals of Energy Systems.
- History of Electricity Generation.
- Importance and Need of Energy Audit.
- Key Factors of Energy Conservation.
- Recent Developments of Grid-to-Smart Grid.
- Concept of V-to-H (Vehicle to Home), V-to-G (Vehicle to Grid).

ECE | FDP ON ADVANCING AI-DRIVEN COMPUTING SOLUTIONS FOR EMBEDDED SYSTEMS AND COMMUNICATION NETWORKS – DAY -4



Session 1 & 2: Human Machine Interaction in Embedded AI Systems.

Resource Person: Mr.Dhurba Jyoti Dutta, Assistant Technical Manager DigiToad Technologies Pvt Ltd, Bangalore.

Session Takeaways:

- Need for AI in Embedded System, Possibilities of Edge Artificial Intelligence
- Building an AI Ecosystem, User-Centric Design in Embedded AI, Security and Privacy in Embedded AI, Nano Edge AI for Audio Classification, Feature Extraction Techniques for Audio Signals.

CSE | WORKSHOP ON EMERGING TRENDS IN SALESFORCE CLOUD MANAGED SERVICES



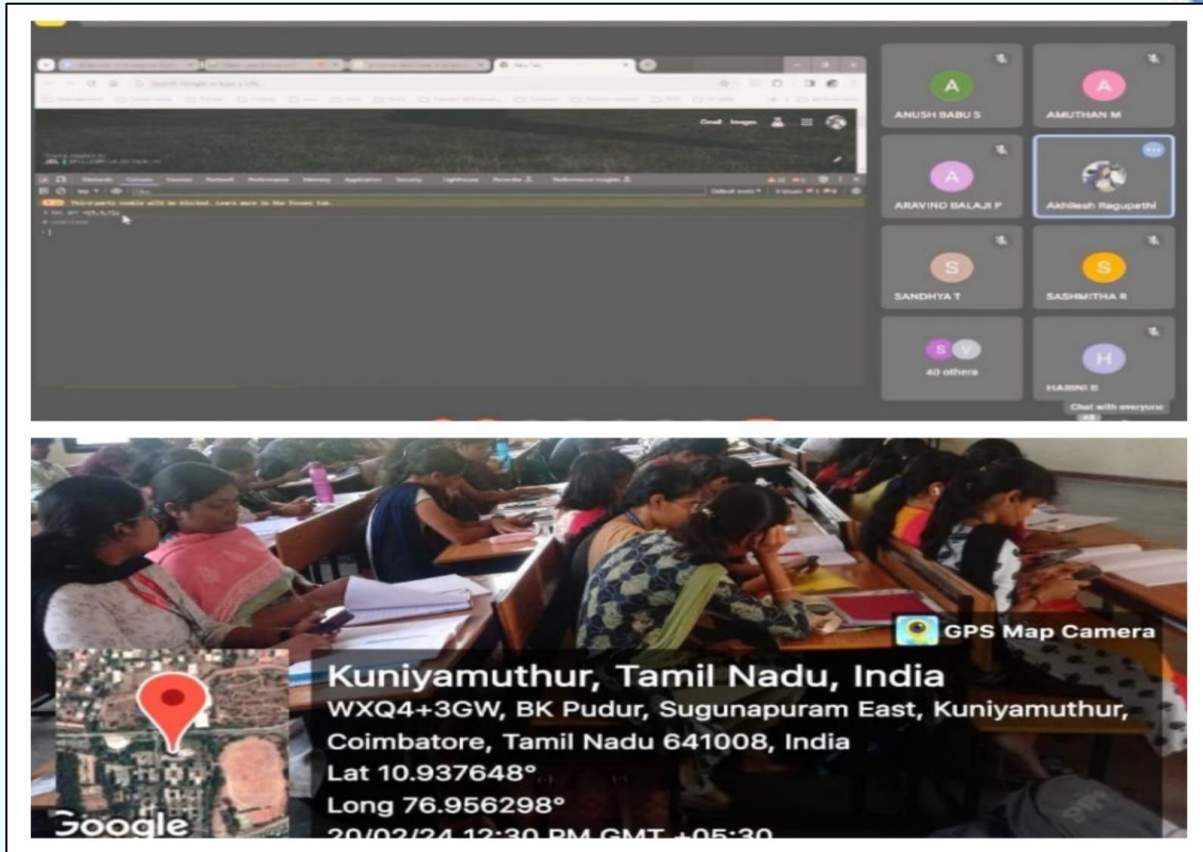
Department of **CSE** organized a Seminar on “**Emerging Trends in Salesforce Cloud Managed services**” on 15.2.2024.

Resource Person: Mr.Prasanth G, Salesforce Developer ,CTS, Coimbatore.

Session Takeaways:

- Overview on Cloud & service model
- Types of clouds in Salesforce
- Salesforce Ecosystems
- Trailhead Structure
- How to start a career in salesforce (Apex, SOSL)
- Salesforce Certifications & Demo

CSD | WEBINAR ON JAVASCRIPT FOR ENTERPRISE LEVEL PRODUCTS



Department of **Computer Science and Design** organized an online webinar on **JavaScript for Enterprise Level Products** for the Second year CSD students on 20.02.2024.

Resource Person: Mr Akhilesh R, Software Developer, Trimble Inc, Chennai.

Session Takeaways:

- JavaScript Operators and Expressions
- JavaScript Frameworks and Libraries
- JavaScript MVC Frameworks
- JavaScript Performance Optimization
- JavaScript Asynchronous Programming

IT | GUEST LECTURE ON EMERGING TECHNOLOGIES FOR CLEANTECH INNOVATION



Department of **Information Technology** organized a Guest Lecture on “**Emerging Technologies for Cleantech Innovation**” on 19-02-2024 for the **Third** year IT students. **Dr Elena Dieckmann**, Faculty of Engineering Dyson School of Design Engineering Imperial College London and **Ms Samreen Khan**, Student Recruitment Manager (India) Indian Business Council for Imperial College London were the Resource persons.

Session Highlights:

- Uninhabitable environment through pollution
- ORCA (Origami Capsule Endoscopy System)
- AI Enabled wearable device to monitor Asthmatic symptoms and Environmental factors.
- Clean Transport, Energy, Industry and Environment
- Career Opportunities

AI&DS | GUEST LECTURE ON EXCELLING DATA ACQUISITION THROUGH PYTHON & IOT



Department of **AI&DS** organized a Guest Lecture on "**Unveiling Insights: Excelling in Data Acquisition through Python and IoT**" on 20.02.2024.

Resource Person: Mr.Adityan Ramesh,R&D Operations Director, Twirltact Technology Solutions Pvt Limited, Coimbatore.

Session Takeaways:

Industrial Internet of Things, Data Acquisition Toolbox, Processing of Edge device, IoT and Edge device Integration, Data acquisition using Python, Demo on Smart Home Systems and Health care.

CSBS & CSY | GUEST LECTURE ON ACHIEVING PROBLEM – SOLUTION FIT & PRODUCT – MARKET FIT



Department of **Computer Science and Business Systems** and **Computer Science and Engineering [Cyber Security]** in association with IIC organised a Guest lecture on "**Achieving Problem-Solution Fit and Product-Market Fit**" on February 19th, 2024.

Resource Person: Mr. M. Anand, Scientist-Chairman, LAMS Automation Private Limited, Ooty.

Highlights of the Session:

- Problem identification
- Product-Market coalescence
- Cybersecurity, Innovation, AI
- Block chain Importance
- Patent site portfolio - Provisional patent
- Voucher A & Voucher B
- Creating prototype
- Startup India & Startup TamilNadu
- Inventions - E-suraksha project

EEE | GUEST LECTURE ON CAREER OPPORTUNITIES IN ELEVATOR INDUSTRY



Department of **Electrical and Electronics Engineering** organized a Guest Lecture on '**Career Opportunities in Elevator Industry**' for the **Second** year EEE Students on 19.02.2024.

Resource Person: Mr. G.Prabhu, Project Lead, KONE Elevator India Private Limited, Chennai.

Session Highlights:

- Sustainable Elevator Design for Eco-Friendly Buildings.
- Safety Features of Commercial Elevators.
- Embedded based Elevator Control System.
- Development of Carbon Nanotube (CNT) materials.
- Concept to Creation: Space Elevator Design.
- Career Opportunities in Smart Elevator Technology.

CSBS & CSY | IDEATHON



Department of **Computer Science and Business Systems** and **Computer Science and Engineering [Cyber security]** in association with IIC organized "IDEATHON.". This event provided the platform for the Second year students to display their innovative ideas. 19 teams participated, presenting a diverse range of ideas that reflected both creativity and problem-solving strategies.

Jury Members:

Mr. M. Anand, Scientist-Chairman, LAMS AUTOMATION PRIVATE LIMITED, Ooty.

First Prize: II CSE (CS)

1. TharunSabari P
2. Sabari N
3. Rohan M

Second Prize: II CSBS

1. Dhanush Murugesan
2. Jothi Babu

Third Prize: II CSE (CS)

1. Ranga Raja R
2. Madhav S
3. Gowtham K

EEE | IIC WORKSHOP ON INNOVATIONS AND ENTREPRENEURSHIP



IIC of SKCET in association with the Department of **Electrical Electronics and Engineering** organized a Workshop on 'Innovations and Entrepreneurship' for the Second year EEE students on 21.02.2024.

Session 1: Key Challenges in Innovation and Entrepreneurship

Resource Person: Mr.K.Ilanchezian, Project Lead, Prolific Systems and Technologies, Coimbatore.

Session Highlights:

- Innovations in Industrial automation, Business Model Canvas, Customer segments in Automation Industry, Channels for digital marketing, Customer Relationships and Revenue streams, Smart Innovations in SCADA

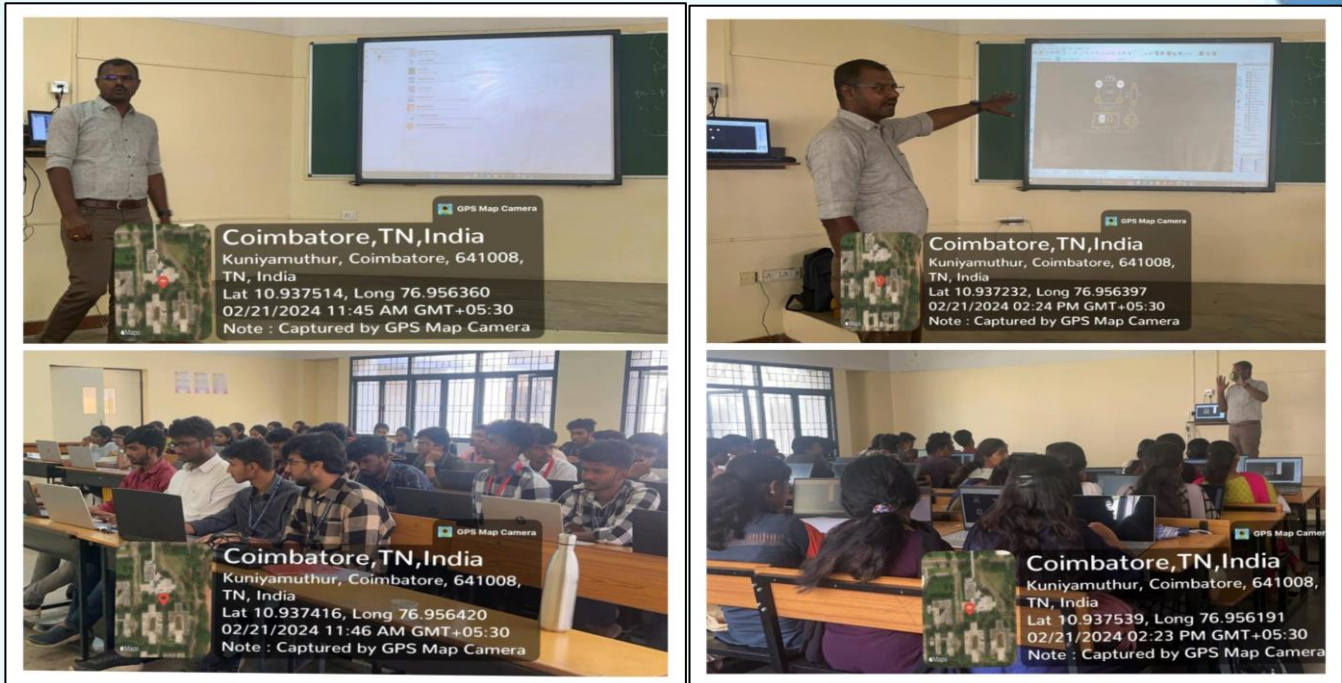
Session 2: Innovations - Experience and Challenges

Resource Person: Mr.Jaganath Hariharan, Founder & Tech Head, Kinpaun Technologies, Coimbatore.

Session Highlights:

- Role of innovation in the entrepreneurial journey, Process of identifying problems and developing a business, Challenges and steps to run successful business as an entrepreneur.

EEE | WORKSHOP ON 3D MODEL BASED PCB DESIGN & FABRICATION – DAY 1



Department of **Electrical and Electronics Engineering** organized a Two-day Workshop on “**3D Model-based PCB Design and Fabrication**” for EEE Students on 21.02.2024.

Resource Person: Mr. A. Prabhakaran, Project Engineer, ZED Digital, Coimbatore

Session 1: Exploring Circuit Designing Technology

Key Pointers:

- Insights on Industrial Requirements for PCBs, Mastering PCB Design Techniques, Exploring Future Opportunities in PCB Technology, Real-world Applications of PCBs, Hands-on Experience with KiCad Software.

Session 2: Exploring Circuit Simulation with Proteus Tool

Key Pointers:

- Creating Simple LED Circuits, Hands-on Practice with PCB Editor, Component Footprint Assignment Techniques, Designing Compact and Space-efficient circuit, 3D Visualization of Final Output.

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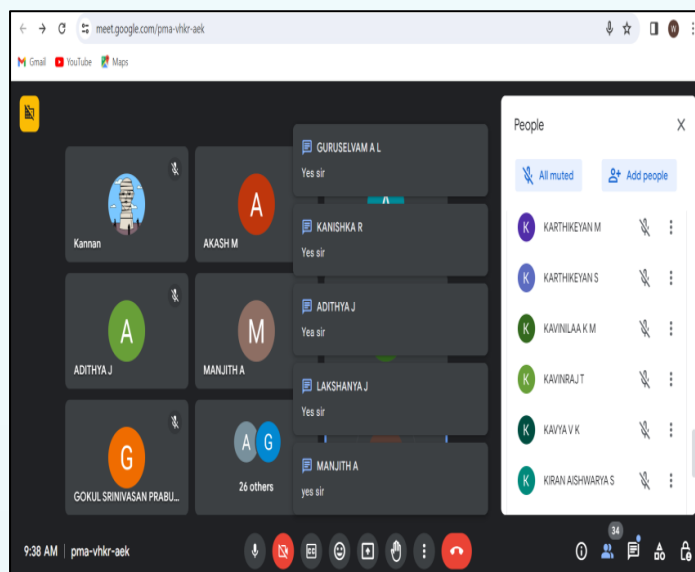
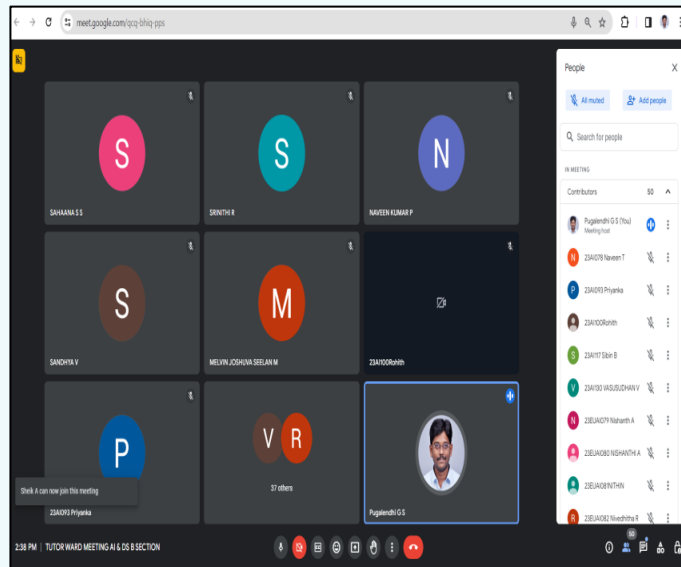
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M.TECH CSE | CLASS COMMITTEE MEETING



Department of **M.Tech Computer Science and Engineering** conducted a **Class Committee Meeting** for the **Third year students of M.Tech CSE** on 20th Feb 2024. **Dr.V.K Reshma**, Associate Professor, Department of **Computer Science and Engineering** was the Chairperson of the meeting. The pointers of discussion were: Academic regulations, Syllabus completion, Tutor ward system, Value Added Course, Participation in Hackathon and other competitions, Maintaining Discipline, Dress code and punctuality.

AI&DS | TUTOR WARD MEETING



Mr.G.S.Pugalendhi, Assistant Professor and **Mr.A.Wasim Raja**, Assistant Professor, Department of **AI&DS** have conducted **Tutor Ward Meeting** for the **First** year students on 21.02.2024. The pointers of discussion were: College Reopening Date, Rules and Regulation, Placement and NPTEL course registration.

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I can confidently say that SKCET provided me with the best education and experiences I could have ever imagined. From the professors who went above and beyond to ensure our success, to the diverse range of clubs and activities available, I felt supported and challenged every step of the way. Not only did I receive a top-notch education, but I also gained valuable skills and experiences that have helped me in my professional and personal life. The education I received prepared me well for my career, and I am grateful for the guidance and support of my professors and advisors to secure my placement in Sporfy Private Limited. Thanks to my parents, SKCET Management, Principal, department and the entire SKCET family for the wonderful opportunity.

**Ruddhika M M,
CSE,
Sporfy Private**



PLACEMENT TESTIMONIALS

My name is Jayadeep J, and I am graduated from the Mechatronics Engineering Department. My experience at SKCET was truly exceptional. The faculty members are highly educated, knowledgeable and experienced. They played a crucial role in enhancing my technical abilities, communication skills, and problem-solving capabilities, all of which have been instrumental in shaping my career path.

The various training programs offered by the college opened up numerous avenues of success for me. The placement procedure was particularly noteworthy, as it provided me with invaluable learning experiences. I am deeply appreciative of the placement team members who not only presented me with diverse opportunities but also offered unwavering support throughout my placement interviews.

**JAYADEEP J,
MCT,
Accenture**



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R&D | PATENT PUBLICATION | EEE

2/9/24, 10:01 PM Intellectual Property India

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India
(<http://ipindia.nic.in/index.htm>)

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

Application Details	
APPLICATION NUMBER	202411002649
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/01/2024
APPLICANT NAME	1 - Dr. Shantanu Shahi 2 - Dr. Alok Singh Sengar 3 - Dr. Chidananda.H 4 - Dr. Rafi Mohammed Shaikh 5 - Dr. Muthukumar K 6 - Dr. E Murali 7 - Telagamalla Gopi 8 - Dineshwari Bisen 9 - Dr.Saikumar.V 10 - George Princess T
TITLE OF INVENTION	DESIGN OF IOT-ENABLED FACE DETECTION AND TRACKING USING IMAGE PROCESSING ON RASPBERRY PI
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	02/02/2024

<https://iprsearch.ipindia.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus>

Patent titled “Design of IOT-Enabled Face Detection and Tracking Using Image Processing on Raspberry PI” by Dr.K.Muthukumar, Associate Professor, EEE Department has been published in the IPR Journal identified with Appl.No: 202411002649 A on 02.02.2024.

R&D | JOURNAL PUBLICATION | CSE

Dr.Ramesh K Professor, CSE, has published a paper entitled “Early Detection of Alzheimer’s Disease: An Extensive Review of Advancements in Machine Learning Mechanisms Using an Ensemble and Deep Learning Technique” Eng. Proc. 2023, 59, 10,<https://doi.org/10.3390/engproc2023059010>.

Open Access Proceeding Paper

Early Detection of Alzheimer’s Disease: An Extensive Review of Advancements in Machine Learning Mechanisms Using an Ensemble and Deep Learning Technique †

by Renjith Prabhavathi Neelakandan 1,* ,
 Ramesh Kandasamy 2 ,
 Balasubramani Subbiyan 3 and
 Mariya Anto Bennet 4

- 1 School of Computer Science and Engineering, Vellore Institute of Technology, Chennai Campus, Chennai 603103, Tamilnadu, India
- 2 Department of Computer Science and Engineering, Sri Krishna College of Engineering and Technology, Coimbatore 641008, Tamilnadu, India
- 3 Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram 522502, Andrapradesh, India
- 4 Department of Electronics and Communication Engineering, Vel Tech Rangaranjan Dr. Sagunthala R & D Institute of Science and Technology, Chennai 600062, Tamilnadu, India

* Author to whom correspondence should be addressed.

presented at the International Conference on

R&D | JOURNAL PUBLICATION | EEE

Dr.P.Vinothkumar, Associate Professor, EEE Department has published a paper entitled “Applying Fusion of Feature Classification to Retrieve Mammography Image Using Soft Computing Approach Under Environmentalism” in the Journal of Environmental Protection and Ecology. It is indexed in SCIE & Scopus journal.

Journal of Environmental Protection and Ecology 25, No 1, 321–333 (2024)

Computer application

APPLYING FUSION OF FEATURE CLASSIFICATION TO RETRIEVE MAMMOGRAPHY IMAGE USING SOFT COMPUTING APPROACH UNDER ENVIRONMENTALISM

GOMATHI SHANMUGAM^{*}, GUNAPRIYA DEVARAJAN[®], GOMATHI VISWANATHAN[®], VINOTH KUMAR PONNUSAMY[®]

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E-mail: gomathi@ksrct.ac.in

[®]Department of Electrical and Electronics Engineering, Sri Eshwar College of Engineering, 641 202 Coimbatore, India

[®]Department of Electrical and Electronics Engineering, Dhanalakshmi Srinivasan College of Engineering, 641 105 Coimbatore, India

[®]Department of EEE, Sri Krishna College of Engineering and Technology, Coimbatore, India

Abstract. In the digital world, medical images are produced digitally. Using these digital medical images, treatment can be provided to the patient with a more specific, and highly beneficial outcome. Accessing and managing these digital medical images is a complicated one. Therefore, medical image retrieval that are based on content plays a vital role because it retrieves similar medical images from the database and helps physicians by analysing the similarity of diseases and to give proper treatment to the patient. The challenge in the content-based retrieval of medical images between the low-level features is based on the semantic gap of digital medical images that the device captures and high-level human feature information. In view of existing research work, the issues are inefficient and inaccurate and a lot of time is required in the retrieval of digital medical images from the dataset. To overcome these issues, a fusion of feature classification for the retrieval of mammography images using the soft computing technique of fuzzy C-Means with lion optimisation algorithm (FCM-LOA) has been focused. This proposed work can retrieve the most relevant mammography images from the dataset. The accuracy rate of the proposed work of FCM-LOA was obtained as 94.02%, FCM as 72.11% and K-means clustering as 84.54%.

Keywords: CBIR, soft computing technique, Fuzzy C-means, lion optimisation, mammography image.

AIMS AND BACKGROUND

The rising trend in breast cancer-related health problems significantly raises the fatality rate. Therefore, the detection of disease and providing good and effective treatment of image retrieval plays a major role. It retrieves the similarity of mammography images from the large dataset and assists physicians in many ways like

^{*} For correspondence.

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R&D | BOOK CHAPTER | M.TECH CSE

41

Chapter 2

Reshaping Disaster Resilience: The AI and Machine Learning Revolution in Natural Catastrophe Management

R. Siva Subramanian

<https://orcid.org/0000-0002-7509-9223>
R.M.K. College of Engineering and Technology, India

D. Prabha

Sri Krishna College of Engineering and Technology, India

S. Srinivasan

Nehru Institute of Technology, India

S. Thirumurugaveerakumar

Kumaraguru College of Technology, India

G. Gokilakrishnan

Sri Eshwar College of Engineering, India

ABSTRACT

Natural disasters, such as earthquakes, hurricanes, floods, and wildfires, are ongoing worldwide concerns that have catastrophic effects on human lives, infrastructure, and the environment. By enhancing forecast, management, and reaction tactics, machine learning and artificial intelligence (AI) have emerged as revolutionary technologies in solving these crises. This comprehensive chapter delves deeply into the uses and implications of machine learning and AI in natural disaster avoidance. Machine learning techniques, especially artificial neural networks (ANNs), have shown promise in forecasting the incidence and severity of many natural catastrophes. These models make use of massive datasets including climatic, geographical, and historical data to improve forecasting accuracy and early warning systems. Furthermore, data-driven insights enable catastrophe prediction and risk assessment using a variety of machine learning methods ranging from decision trees to deep learning networks.

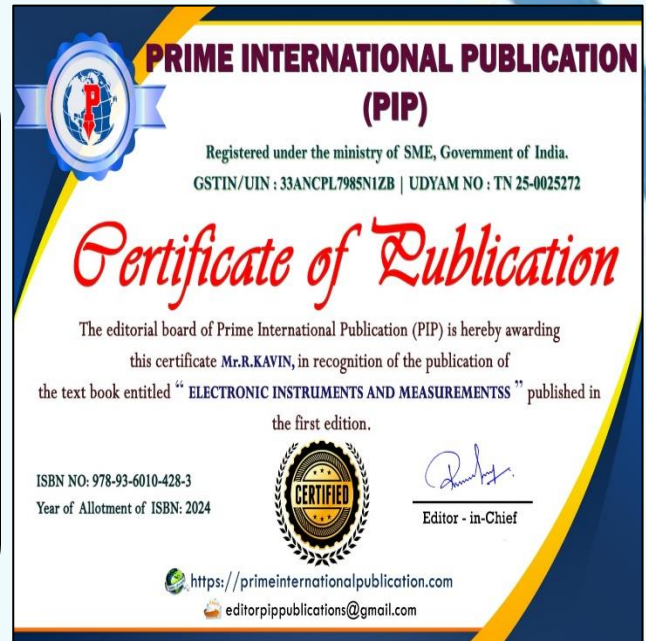
DOI: 10.4018/979-8-3693-2280-2.ch002

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Dr.D.Prabha, Professor, Department of M.Tech Computer Science and Engineering has successfully published a book chapter titled “Reshaping Disaster Resilience: The AI and Machine Learning Revolution in Natural Catastrophe Management” in the book-Predicting Natural Disasters With AI and Machine Learning under IGI Global, an international academic publisher with DOI Number: 10.4018/979-8-3693-2280-2.ch002.

R&D | BOOK PUBLICATION | EEE

Mr. R. Kavin, Assistant Professor, EEE Department, has published a book entitled on “**Electronic Instruments and Measurements**” with ISBN Number: 978-93-6010-428-3 by Prime International Publication.



R&D | JOURNAL PUBLICATION | MECH

International Journal of Lightweight Materials and Manufacture 7 (2024) 344–352

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International Journal of Lightweight Materials and Manufacture

journal homepage: www.keaipublishing.com/ijlmm

Enhancing tensile properties of pulsed CMT–MIG welded high strength AA2014-T6 alloy joints: Effect of post weld heat treatment

C. Rajendran ^{a,*}, Tushar Sonar ^b, Mikhail Ivanov ^b, Ch. Sandeep ^c, C. Shanthi ^d, Naveen Kumar Gurajala ^e, K. Balachandrar ^f, Jinyang Xu ^g

^a Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, 641008, Tamil Nadu, India
^b Department of Welding Engineering, Institution of Engineering and Technology, South Ural State University (National Research University), Chelyabinsk, 454080, Russia
^c Department of Mechanical Engineering, Institute of Aeronautical Engineering, Hyderabad, 500043, Telangana, India
^d Department of Physics, Sona College of Technology, Salem, 636005, Tamil Nadu, India
^e Mechanical Engineering, CMR College of Engineering and Technology, Hyderabad, 501401, Telangana, India
^f Department of Mechatronics, Saitohyama Institute of Science and Technology, Chennai, 600119, Tamil Nadu, India
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ARTICLE INFO

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Keywords:
AA2014-T6 aluminum alloy
Pulsed CMT–MIG welding
Microstructure
Tensile properties
Post weld heat treatment

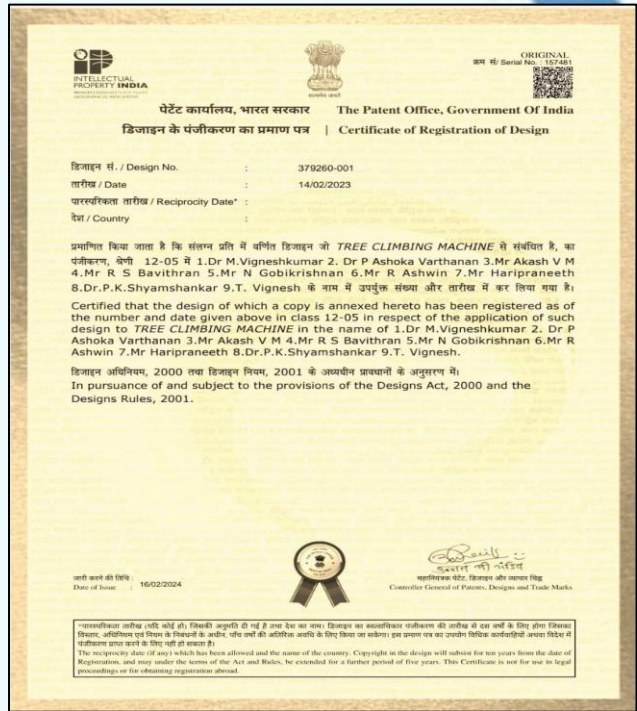
ABSTRACT

The main objective of this investigation is to study the effect of post weld heat treatments (PWHTs) on tensile properties, hardness, and microstructure of pulsed CMT–MIG (cold metal transfer arc–metal inert gas) welded AA2014-T6 aluminum alloy joints. The welded joints were subjected to PWHT of artificial aging (AA), solution annealing treatment (ST) and ST + aging (STA). The tensile properties and microhardness of joints were evaluated. The microstructure of joints was studied using optical microscope (OM) and transmission electron microscope (TEM). The fractured surface of tensile specimens was analyzed using scanning electron microscope (SEM). Results showed that the tensile properties and hardness of as welded and PWHT joints are inferior compared to base metal (BM). This mainly refers to the microstructural heterogeneity in different regions of joints and softening of heat affected zone (HAZ) induced by the weld thermal cycle. The PWHTs of AA and ST did not show significant effect on tensile strength and hardness of AW joints. However, the slight reduction in elongation was observed in AA and ST joints. The STA joints showed higher joint efficiency of 71.6%, than other joints by compromising on the elongation. This refers to the greater precipitation of hardening precipitates in STA joints compared to AA and ST joints. It exhibited the higher tensile and yield strength of 326 MPa and 266 MPa and the lowest elongation of 3.8%. The STA joints showed 28.35%, 38.28% and 57.77% reduction in tensile strength, yield strength and elongation compared to BM respectively. All the tensile specimens of joints failed in HAZ owing to the lower hardness. This refers to dissolution of precipitates in HAZ. However, the HAZ softening is less severe in STA joints than AW, AA, and ST joints.
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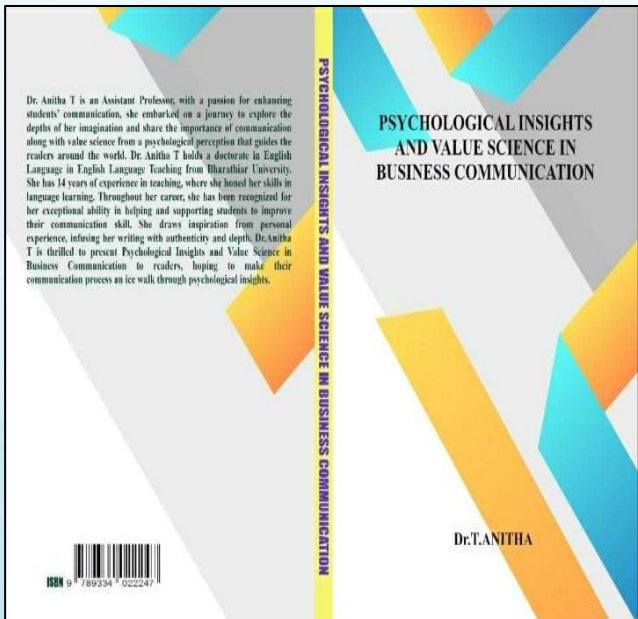
Dr.C.Rajendran, Associate Professor, Department of Mechanical Engineering, has published a research article titled “**Enhancing tensile properties of pulsed CMT-MIG welded high strength AA2014-T6 alloy joints: Effect of post weld heat treatment**” in the International Journal of Lightweight Materials and Manufacture. It is indexed in Scopus.

R&D | DESIGN PATENT GRANT | MECH

Dr.M.Vigneshkumar, Associate Professor and **Dr.P.Ashoka Varthanan**, HoD – **Mechanical Engineering** have been granted Design Patent for ‘**Tree Climbing Machine**’ by The Patent Office, Government of India.



R&D | BOOK PUBLICATION | S&H



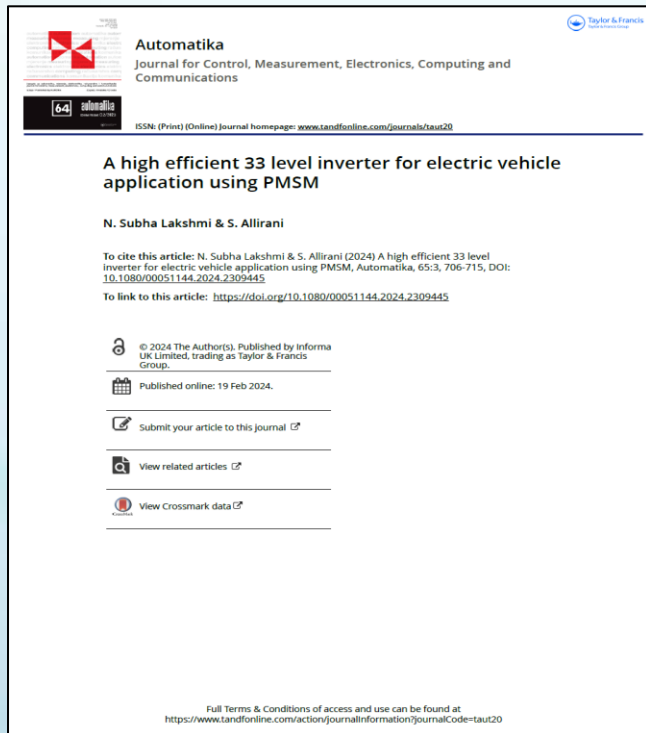
Dr. Anitha T, Assistant Professor, Department of **Science and Humanities**, has published a book titled “**Psychological Insights and Value Science in Business Communication** with ISBN 9 789334 022247.

R&D | DESIGN PATENT GRANT | MECH

Dr. Yuvaraj K.P, Associate Professor, Mechanical Engineering has been granted Design Patent on 'Intelligent Customized Mirror with Information Display Facility' by The Patent Office, Government of UK.



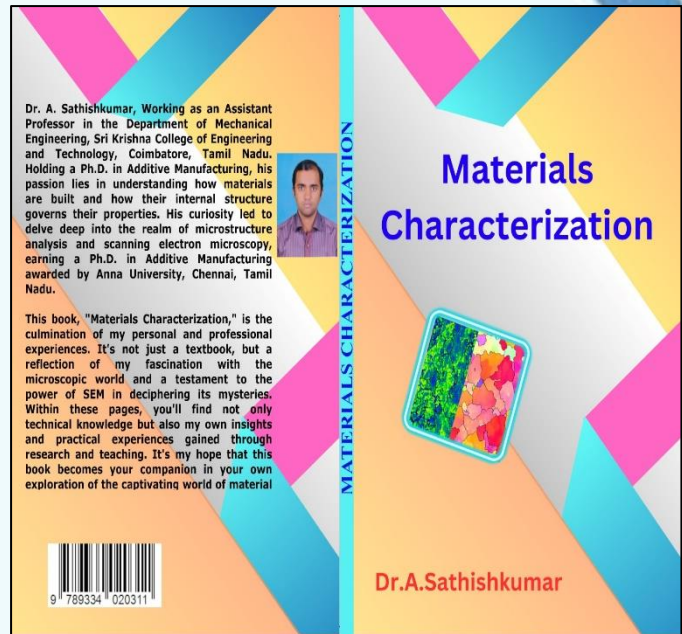
R&D | JOURNAL PUBLICATION | EEE



Ms.N.Subhalakshmi, Assistant Professor, EEE Department has published a paper entitled "A high efficient 33 level inverter for electric vehicle application using PMSM" in the Journal for Control, Measurement, Electronics, Computing and Communications. It is indexed in SCIE & Scopus journal.

R&D | BOOK PUBLICATION | MECH

Dr.A.Sathishkumar, Assistant Professor, Department of Mechanical Engineering, has published a textbook titled **“Materials Characterization”** with ISBN 978-93-340-2031-1.



Dr. A. Sathishkumar, Working as an Assistant Professor in the Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu. Holding a Ph.D. in Additive Manufacturing, his passion lies in understanding how materials are built and how their internal structure governs their properties. His curiosity led to delve deep into the realm of microstructure analysis and scanning electron microscopy, earning a Ph.D. in Additive Manufacturing awarded by Anna University, Chennai, Tamil Nadu.

This book, "Materials Characterization," is the culmination of my personal and professional experiences. It's not just a textbook, but a reflection of my fascination with the microscopic world and a testament to the power of SEM in deciphering its mysteries. Within these pages, you'll find not only technical knowledge but also my own insights and practical experiences gained through research and teaching. It's my hope that this book becomes your companion in your own exploration of the captivating world of material

R&D | JOURNAL PUBLICATION | ECE

pubs.aip.org/aip/acp/article-abstract/2914/1/050007/2929642/Optimal-resource-allocation-in-wireless-systems?redirectedFrom=fulltext

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Volume 2914, Issue 1
14 December 2023

RESEARCH ARTICLE | DECEMBER 14 2023

Optimal resource allocation in wireless systems

D. Pavithra, N. Kalaivani

Check for updates

Author & Article Information

Corresponding author: 2105pcm002@skcet.ac.in
kalaivani@skcet.ac.in

AIP Conf. Proc. 2914, 050007 (2023)
<https://doi.org/10.1063/1.5178559>

Share Tools

Formulate optimal methods for allocating wireless communication system resources; This is a stochastic functional optimization. These optimization problems present as learning problems since the statistical loss acts as a restriction, hence several learning algorithms have been developed to attempt to solve them. Training is carried out in the dual domain to deal with stochastic restrictions. It is demonstrated that by utilizing almost universal learning parameterizations, this may be done with little loss of optimality. Deep neural networks (DNN) are specifically encouraged and investigated because of their near-universal adoption. In this case, we train DNNs using a model-free primal-dual training approach, maximizing primal and dual variables and learning a DNN resource allocation strategy. The proposed method is shown to perform effectively in numerical simulations on many common wireless resource allocation challenges.

Ms.N.Kalaivani, Assistant Professor, Department of ECE has presented and published her conference paper titled **“Optimal resource allocation in wireless systems”** in the International Conference on Innovations in Robotics, Intelligent Automation and Control. It is a Scopus Indexed Conference.

R&D | JOURNAL PUBLICATION | MECH

J. Inst. Eng. India Ser. D
<https://doi.org/10.1007/s40033-023-00626-z>

ORIGINAL CONTRIBUTION

Appraisal of Mechanical and Tribological Performance of Onyx and Carbon Fiber Composites Produced Through Various Layering Approaches in Continuous Fused Filament Fabricated

R. Soundararajan¹ · E. Dharunprakash¹ · N. Arjinkumar¹ · A. D. Gowthamprasath¹

Received: 14 October 2023 / Accepted: 19 December 2023
© The Institution of Engineers (India) 2024

Abstract Continuous fused filament fabrication (CFFF) is an additive manufacturing technology which enabled designers to easily create custom-built parts with complicated geometries and higher performance. The automobile industry's primary goal is to reduce weight with generative designed components without compromising strength. Our current research is focused on the preparation of CFFF test samples using various forms of layering approaches, which include mark forged onyx matrix, onyx with a core of carbon fiber, onyx with a sub-surface of carbon fiber and sandwiched onyx and carbon fiber (alternating layers). These samples were printed using a combination of continuous onyx and carbon fiber composites and compared based on their mechanical and tribological properties. All materials had been tested for mechanical conduct such as hardness, impact, tensile and flexural strength and then tested with a tribometer under varying applied loads of 5–20 N and sliding velocities of 1–3 m/s. Finally, all test responses were

specimens. The sandwiched onyx and carbon fiber composite sample had a lower rate of wear and friction. The fracture surface morphology showed more dimple formation on the fracture surface and slight worn surface, with an absence of micropores and cracks presented in the sandwiched onyx and carbon fiber composite sample. Considering these improvements, sandwiched onyx and carbon fiber composites could potentially offer a lightweight and strong alternative for automotive body panels such as doors and hoods contributing to overall vehicle performance, durability and safety.

Keywords CFFF · Onyx and onyx with carbon fiber composite filament · Printed with CFFF technique · Various layering approaches · Mechanical and tribological performance

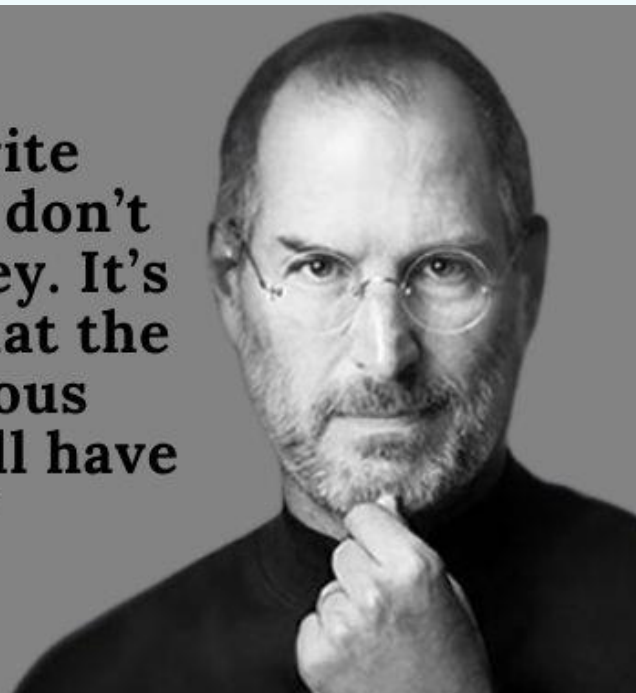
Introduction

Dr.R.Soundararajan, Associate Professor, Department of **Mechanical Engineering**, has published a research article titled “**Appraisal of Mechanical and Tribological Performance of Onyx and Carbon Fiber Composites Produced Through Various Layering Approaches in Continuous Fused Filament Fabricated**” in the Journal The Institution of Engineers (India): Series D. It is indexed in Scopus.

LEGENDARY INSIGHT

"My favourite things in life don't cost any money. It's really clear that the most precious resource we all have is time."

- Steve Jobs



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CSBS | CERTIFICATE OF APPRECIATION



Mr. R. Yasir Abdullah, Assistant Professor, Department of **Computer Science and Business Systems**, has received the Certificate of Appreciation for conducting the Faculty Development Program for the Course of **Data Mining and Analytics**, designed by Tata Consultancy Services, on February 1, 2024.

HELTHOGRAPHICS



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CIVIL | FDP ON IPRSTD - 2024



Dr. P. Saravanakumar, Professor and Head, and Mr. S. C. Boobalan, Assistant Professor, Department of Civil Engineering, have participated in a 5-day FDP on “Intellectual Property Rights for Sustainable and Technological Development (IPRSTD-2024)” sponsored by IEEE WIE and organised by Galgotias University held from 6th to 10th February 2024.



CSE | FDP ON PYTHON PROGRAMMING

Mr. Vengateshwaran, Assistant Professor/CSE has successfully completed Five Day National Level Online Faculty Development Programme on “Python Programming with DJANGO Framework for building web applications” organized by the Department of Computer Science and Engineering, CMR Engineering College, Hyderabad, in association with SAK Informatics, Hyderabad from 12th-16th February 2024.



MCT | FDP ON DIGITAL TWINNING OF MATERIAL PROCESSING TECHNOLOGIES



Dr.R.Gopinathan, Associate Professor and Dr.S.Dinesh, Mr.M.Vigneshwaran and Mr.S.Madhankumar Assistant Professors of MCT have participated in the AICTE Recognized Faculty Development Programme on “Digital Twinning of Material Processing Technologies” conducted by Mechanical Engineering Department of NITTTR Chandigarh from 05.02.2024 to 09.02.2024.

IT | FDP ON PYTHON PROGRAMMING



Dr.T.Keerthika , Associate Professor, IT has participated in the five days FDP on “Python Programming with Django Framework for Building Web Applications” Organized by the Department of Computer Science and Engineering, CMR Engineering College from 12-02-2024 to 16-02-2024.

MCT | GREAT LEARNING CERTIFICATION



Dr.S. Dinesh, Assistant Professor, MCT has successfully completed two online courses titled “**Cyber Security Threats**” and “**Basics of Computer Networking**” presented by Great Learning Academy.

MCT | WORKSHOP ON LATEST TRENDS IN UAV FOR MOBILITY



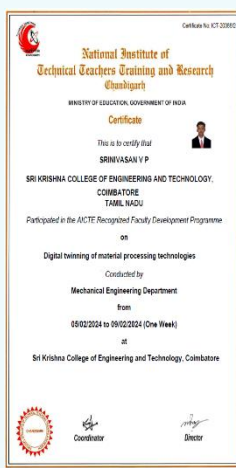
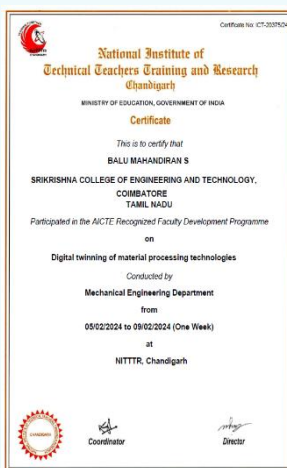
Ms.S.Kannaki, and **Ms.S.Nithya Priya**, Assistant Professors of **Mechatronics Engineering** have participated in the Two – Days workshop on “**Latest Trends in UAV for Mobility**” conducted by the Department of Automobile Engineering, PSG College of Technology, during 9th & 10th February 2024.

S&H | WORKSHOP ON GRAPH THEORY



Ms.Revathy P, Assistant Professor, Department of Science and Humanities has participated in the International Workshop on **Advancements in Graph Theory** organized by the Division of Mathematics, School of Advanced Sciences on 1st& 2nd February 2024 at **Vellore Institute of Technology, Chennai**.

MECH | FDP PARTICIPATION



Dr.R.Jeyakumar, Dr.R.Arunbharathi, Dr.V.P.Srinivasan, Associate Professors, **Mr.J.Baskaran, Mr.S.Balu Mahandiran** Assistant Professors of **Mechanical Engineering** have participated and successfully completed one week (Online Mode) Faculty Development Program on **"Digital Twining of Material Processing Technologies"** from 05/02/2024 to 09/02/2024 organized by the Department of Mechanical Engineering, NITTTR, Chandigarh.

AI&DS | COURSERA CERTIFICATION



Mr.G.S.Pugaleendhi Assistant Professor, **AI&DS** has successfully completed **“Create your First Python Program from UST”** offered by Coursera on **13.02.2024.**

AI&DS | MICROSOFT CERTIFICATION



Mr.G.S.Pugaleendhi, Assistant Professor, **AI&DS** has successfully completed **“Translate Text with Azure AI Translator Service”** and **“Create Speech-Enabled apps with Azure AI Service”** offered through Microsoft on February 13th 2024.

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MECH | ALUMNI RECOGNITION



SKCET ICON AWARD
Mr. Vigneswaran Nagarajan
(2006-2010 Batch)
Director,
SAN Precision Alloys Pvt Ltd,
Coimbatore.



**OUTSTANDING CONTRIBUTOR
AWARD &**
Office Bearer – Coimbatore Chapter
Mr. Sabarikumar Siva
(2013-2017 Batch)
Managing Partner,
Sigma Pumps Pvt Limited,
Coimbatore.



**OUTSTANDING CONTRIBUTOR
AWARD**
Mr. Harinishok T
(2016-2020 Batch)
Chief Operating Officer,
Marvel Machining System,
Coimbatore.

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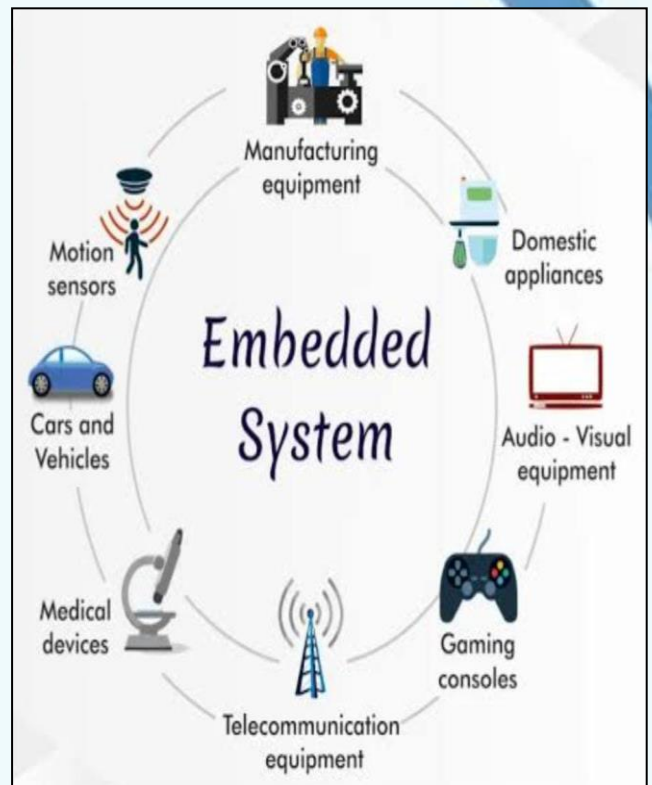
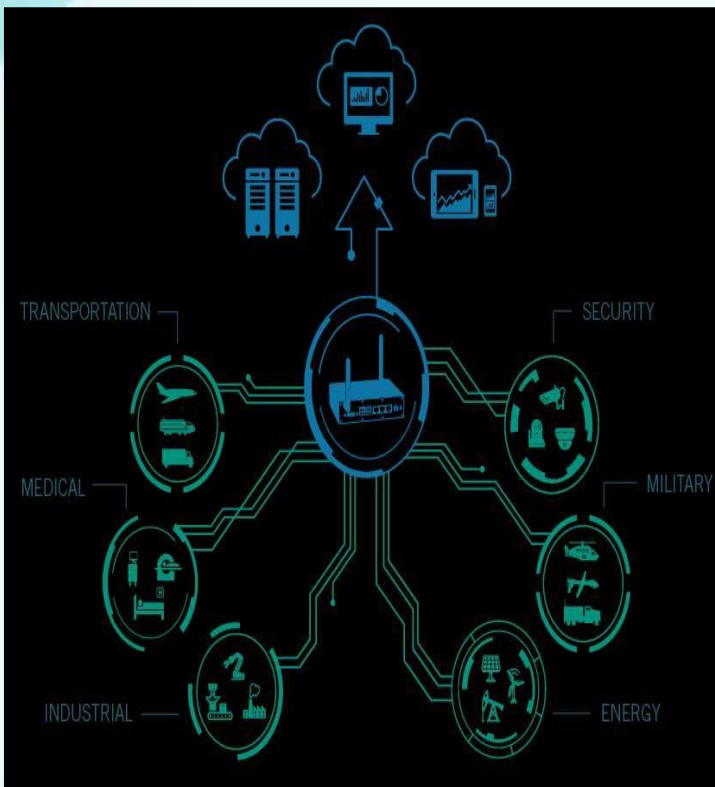


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ECE | TECHNICAL CORNER



Introduction:

In today's digital age, embedded systems play a crucial role in shaping our modern world. From smartphones and smart appliances to automotive systems and industrial machinery, embedded systems are at the heart of countless technological advancement. This article provides an overview of embedded systems, characteristics, applications and their impact on various industries. Embedded systems are specialized computer systems designed to perform dedicated functions within larger systems or products. Unlike general-purpose computers, which are capable of running various software applications, embedded systems are built to execute specific tasks efficiently and reliably. They consist of hardware components, including processors, memory, input/output interfaces and software tailored to meet the system's requirements.

ECE | TECHNICAL CORNER

Applications of Embedded Systems:

Consumer Electronics: Smartphones, wearable, smart home devices, and entertainment systems utilize embedded systems for seamless user experiences.

a. Automotive: Embedded systems power advanced driver assistance systems (ADAS), infotainment systems, engine control units (ECUs), and autonomous driving technologies.

b. Healthcare: Medical devices, patient monitoring systems, and diagnostic equipment rely on embedded systems to provide accurate and timely data for improved healthcare delivery.

c. Industrial Automation: Embedded systems control machinery, robots, and manufacturing processes, optimizing efficiency, productivity, and safety.

d. Aerospace and Defence: Embedded systems are crucial in avionics, unmanned aerial vehicles (UAVs), satellite systems, and military applications for navigation, communication, and mission-critical operations.

Future Trends and Innovations:

The field of embedded systems continues to evolve, driving exciting innovations:

a. Internet of Things (IoT) Integration: Embedded systems are at the core of IoT, enabling seamless connectivity and intelligent interactions between devices.

b. Artificial Intelligence (AI): Embedded systems are increasingly incorporating AI capabilities, enabling real-time decision-making and enhanced functionality.

c. Edge Computing: Embedded systems at the network edge facilitate faster data processing, reducing latency and enabling real-time analytics.

d. Cyber security Enhancements: As embedded systems become more interconnected, robust cyber security measures are vital to protect against threats and ensure data integrity.

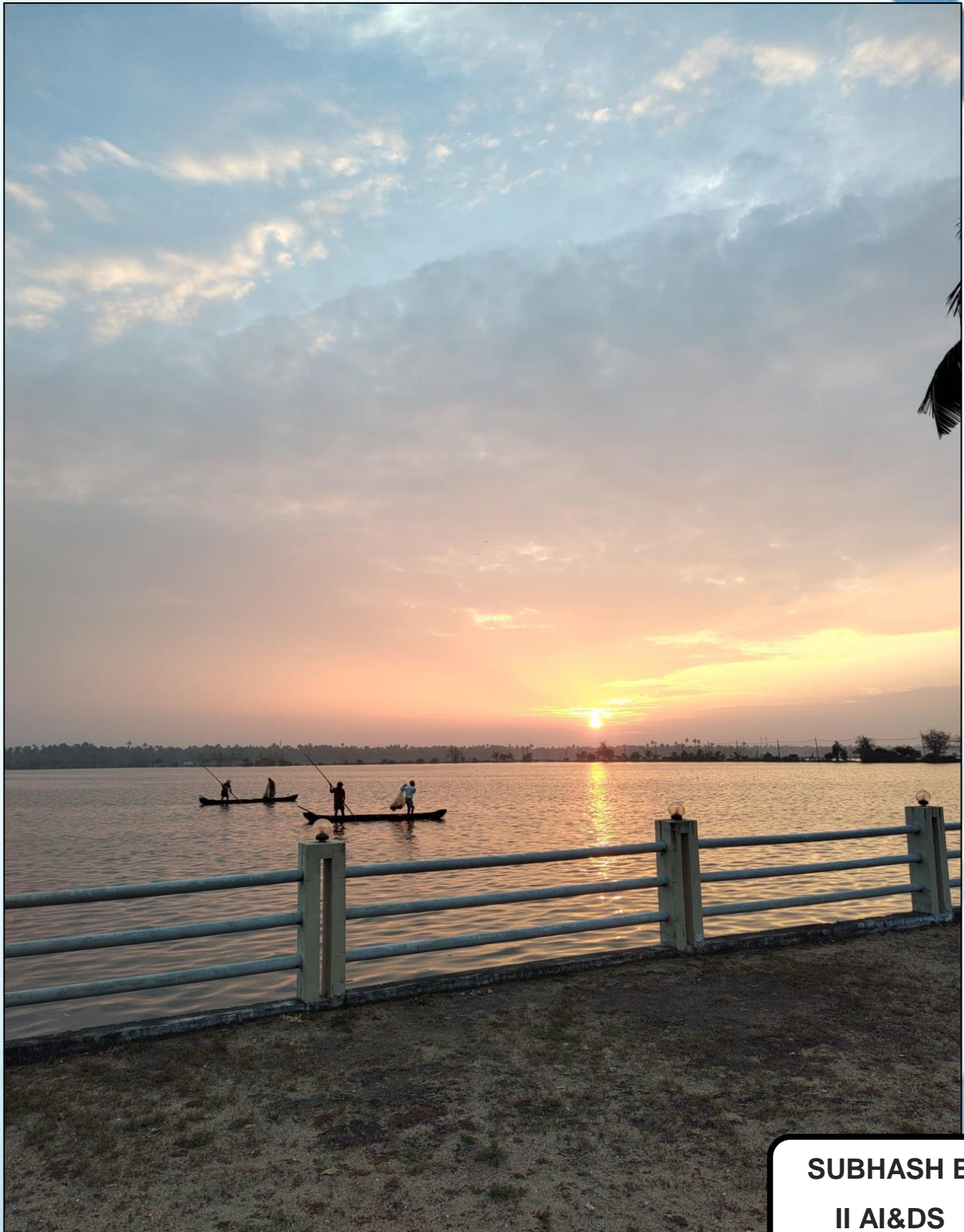
Conclusion:

Embedded systems are the unsung heroes of our digital age, powering a wide array of devices and systems that enhance our lives and transform industries. With ongoing advancements and emerging technologies, embedded systems are poised to play an increasingly pivotal role in shaping our future.

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