



## ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY

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### 3.2.2 Number of books and chapters in edited volume/books Published in national/international conference proceedings per teacher during the year

#### ACADEMIC YEAR 2024-2025

| Sl. NO. | Name of the teacher | Title of the book/chapter published          | Title of the paper   | Title of the proceedings of the conference            | Name of the conference   | National/International | Year of publication |
|---------|---------------------|--|--|---|--|------------------------|---------------------|
| 1.      | Dr. S. Anita        | Digital Signal Processing                    | -  |   | -  | -                      | 2024                |
| 2.      | R. Radhakrishnan    | Digital Signal Processing                    | -  |   | -  | -                      | 2024                |
| 3.      | A. Punitha Jilt     | Artificial Intelligence And Machine Learning | -  |   | -  | -                      | 2024                |
| 4.      | T.Gayathri          | -  | Driver Drowsiness Detection System Using Eye and Mouth Monitoring with DLIB and openCV | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference    | 2025                |
| 5.      | R. Manickavasgan    | -  | Vision Powered Computing: A Virtual Mouse Via Eye Tracking                             | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference    | 2025                |

|     |                 |   |   |   |  |                     |      |
|-----|-----------------|---|---|---|--|---------------------|------|
| 6.  | S. Manavalan    | - | Tire Crack Detection Using Resnet Model                         | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 7.  | K. Kayalvizhi   | - | Doctor Appointment Booking Website Using Cloudinary and NEXT.JS | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 8.  | A. Punitha Jilt | - | Multi Cancer Prediction Using Deep Learning                     | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 9.  | T. Gayathri     | - | Diabetic Retinopathy Prediction Using DIANET                    | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 10. | V. Keerthana    | - | Rensic Evidence Management system                               | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |                  |   |   |   |  |                     |      |
|-----|------------------|---|---|---|--|---------------------|------|
| 11. | M. Subathiradevi | - | Smart Complaint Tracking And Escalation System  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 12. | S. Abinaya       | - | AI – Powered Resume Screening And Interview Question Generation                             | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 13. | Guani A Sabi     | - | Virtual Mirror: Ai-Powered Size Detection And Virtual Garment Fitting In Physical Stores    | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 14. | K. Kayalvizhi    | - | Enhancing Road Safety With AI Driven Traffic Accident Analysis And Prediction               | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 15. | V. Keerthana     | - | Predicting Air Quality Using Advanced Machine Learning Algorithm For Environmental Insights | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|      |                 |   |  |   |  |                     |      |
|------|-----------------|---|--|---|--|---------------------|------|
| 16.  | V. Keerthana    | - | Decoding Emotional Through Sentiment Analysis Social Media Conservation          | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 17.. | T. Gayathri     | - | Transforming Healthcare With AI-Powered Disease Prediction Based On Patient Data | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 18.  | S. Manavalan    | - | Empowering Workers & Homeowners Through Seamless Job Solutions                   | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 19.  | A. Punitha Jilt | - | Smart Animal Detection & Crop Protection   | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 20.  | S.Abinaya       | - | Enhancing Road Safety With Ai-Driven Traffic Accident Analysis And Prediction    | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |              |   |   |   |  |                     |      |
|-----|--------------|---|---|---|--|---------------------|------|
| 21. | K. Devika    | - | Dineflow – Restaurant Management With Smart Order Protection  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 22. | J. Ramesh    | - | Smart Lightning Arrester With Energy Harvesting And Early Warning System For Enhanced Safety In Firework Industry       | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 23. | V. Yogambari | - | Smart Energy Harvesting System Using Emi And Thermal Energy From Transmission Lines With Iot Monitoring                 | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 24. | K. Sriram    | - | Optimal Reconfiguration Of Distribution Network Considering Load Variation Using Chameleon Swarm Optimization Algorithm | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 25. | V. Balaji    | - | Driving–Charging Integrated Controller For Electric Vehicles  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|      |                    |   |   |   |  |                     |      |
|------|--------------------|---|---|---|--|---------------------|------|
| 26.  | A. Sundarapandiyan | - | Smart Enhancement Of Electric V2V Communication System Using IOT In ITS                       | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 27.  | J. Arul Martinal   | - | Optimal Allocation Of EV Charging Stations In Distribution Networks                           | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 28.  | K. Sriram          | - | Optimal Power Flow Of Power System With Location Marginal Price Using Brown Bear Optimisation | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 29.. | J. Ramesh          | - | Grey Wolf Optimization Algorithm Based Economic Dispatch                                      | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 30.  | T. Arthi           | - | Solar Ion Propulsion Harnessing Electric Fields For Deep Space Travel                         | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |                     |   |   |   |  |                     |      |
|-----|---------------------|---|---|---|--|---------------------|------|
| 31. | S. Prabakaran       | - | Multi-Objective Planning Model Of Wind Solar PV Battery Storage-Based Ders In Smart Grid Distribution System        | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 32. | A. Sundarapandiyan  | - | An Integrated Charger Of Wireless Power Transfer, Onboard Charger, And Auxiliary Power Module For Electric Vehicles | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 33. | S. Balabasker       | - | Thawf Sense: Artificial Intelligence For Poultry Management System  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 34. | R. Radhakrishnan    | - | Smart Crop Protection And Alert System For Detecting Wild Animals   | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 35. | B. Mary Amala Jenni | - | Automated Irrigation System For Paddy Utilizing Sensors   | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |                    |   |  |   |  |                     |      |
|-----|--------------------|---|--|---|--|---------------------|------|
| 36. | B. Arun Kumar      | - | Automated And Decentralized Cloud Based Water Level And Quality Audit System Using Iot                             | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 37. | S. Durairaj        | - | Gps Tracking System For Government Bus   | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 38. | A. Samadhana priya | - | Iot And MI-Based Fire Accident Prevention System For Electric Vehicles Using Supercapacitors And Thermogel Cooling | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 39. | D. Umamaheshwari   | - | Public Toilet Maintenance Using Iot  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 40. | V Venkatesan       | - | Smart Vegetable Price Monitoring: Data Collection, Analysis, Visualization And Insights For Farmers                | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |                     |   |   |   |  |                     |      |
|-----|---------------------|---|---|---|--|---------------------|------|
| 41. | B. Mary Amala Jenni | - | Emergency Alert System  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 42. | R.Sasikumar         | - | Prospect Of Moringa Seed Oil As A Sustainable Biodiesel Fuel In India | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 43. | D.Kamalakannan      | - | Prospect Of Moringa Seed Oil As A Sustainable Biodiesel Fuel In India | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 44. | D. Kamalakanna      | - | Principle Studies On Nanostructures                                   | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 45. | T.Elangovan         | - | Principle Studies On Nanostructures                                   | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |                    |   |  |   |  |                     |      |
|-----|--------------------|---|--|---|--|---------------------|------|
| 46. | K. Shanmuga Elango | - | Principle Studies On Nanostructures  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 47. | D.Kamalakaran      | - | Numerical Modeling Of Micromechanical Finite Element Analysis Of Rubber-Cnt Composites | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 48. | K. Shanmuga Elango | - | Numerical Modeling Of Micromechanical Finite Element Analysis Of Rubber-Cnt Composites | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 49. | R.Arokiadass       | - | Numerical Modeling Of Micromechanical Finite Element Analysis Of Rubber-Cnt Composites | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 50. | D. Kamalakannan    | - | FE Analysis Of Thin Laminated Composite Plate With Cutout Under Axial Compression      | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |                    |   |  |   |  |                     |      |
|-----|--------------------|---|--|---|--|---------------------|------|
| 51. | K. Shanmuga Elango | - | FE Analysis Of Thin Laminated Composite Plate With Cutout Under Axial Compression                                  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 52. | R. Sasikumar       | - | FE Analysis Of Thin Laminated Composite Plate With Cutout Under Axial Compression                                  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 53. | T.Elangovan        | - | Machinability Studies On Stainless Steel (Ss304) Under Negative Polarity Of Electrical Discharge Machining Process | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 54. | Ommurugadhasan D   | - | Automated Effective Solar Tracking System  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 55. | P.Murugan          | - | Performance Evaluation Of Biomass Dryer For Drying AMLA  | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |                    |   |  |   |  |                     |      |
|-----|--------------------|---|--|---|--|---------------------|------|
| 56. | K. Shanmuga Elango | - | Effect Of Process Parameters On Deposition Rate And Surface Roughness Of Electro Discharge Coating On Aa7075 Aluminium Alloy       | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 57. | R.Arokiadass       | - | Effect Of Process Parameters On Deposition Rate And Surface Roughness Of Electro Discharge Coating On Aa7075 Aluminium Alloy       | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 58. | A. Josephine Mary  | - | A Critical Review Of Technology Readiness Levels And Commercialization Pathways Of Ccus Systems For Sustainable Climate Mitigation | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 59. | D. Kamalakannan    | - | A Critical Review Of Technology Readiness Levels And Commercialization Pathways Of Ccus Systems For Sustainable Climate Mitigation | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
| 60. | K. Saravanan       | - | Examine The Mechanical Properties And Immersion Corrosion Behavior Of Aluminum 8011 Hybrid Nano Composites                         | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |

|     |              |   |  |   |  |                     |      |
|-----|--------------|---|--|---|--|---------------------|------|
| 61. | R.Arokiadass | - | Grey Wolf Optimization Algorithm Based Economic Dispatch | Emerging Trends in Engineering Science and Technology | 8th National Conference on Emerging Trends in Engineering Science and Technology | National Conference | 2025 |
|-----|--------------|---|--|---|--|---------------------|------|

### AUTHORS PROFILE



**Dr. S. Anita** completed her Bachelor of Engineering degree in Electronics and Communication Engineering from Anna University, Chennai in 2007. Following that, she pursued her Master's degree in Embedded Systems Design from SRM University, Tamil Nadu, India, graduating in 2013. Later, she attained her doctoral degree in Medical Image Processing from SRM Institute of Science and Technology, Chennai in 2019. She has held positions as an Assistant Professor and Associate Professor at St. Anne's College of Engineering and Technology (SANCET), Tamil Nadu, India, and currently serves as a professor in the Department of Electronics and Communication Engineering at SANCET, Panruti.

Her research interests span across various domains including medical image processing, embedded system design, and signal processing. With over ten papers published in indexed journals and two patents to her name, she is an active contributor to her field. Additionally, Anita serves as a reviewer for six reputed journals and is currently supervising a research scholar at Annamalai University, Chidambaram. She has presented numerous papers at both national and international conferences, earning recognition with Best Paper awards.



**R. Radhakrishnan** graduated with a Bachelor of Engineering degree in Electronics and Communication Engineering from Anna University, Chennai in 2010. He then obtained a Master's degree in Communication Systems from Hindustan University, Tamil Nadu, India in 2012. Since then, he has been working as an Assistant Professor at St. Anne's College of Engineering and Technology (SANCET) in Panruti, Tamil Nadu, India. His research interests include Communication and Signal Processing. Additionally, he has published numerous papers in reputed journals.



34/56, 1st Floor, 48th Street, Ashok Nagar,  
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FOR ONLINE PURCHASE  
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ISBN-13: 978-93-6260-550-4



Digital Signal Processing

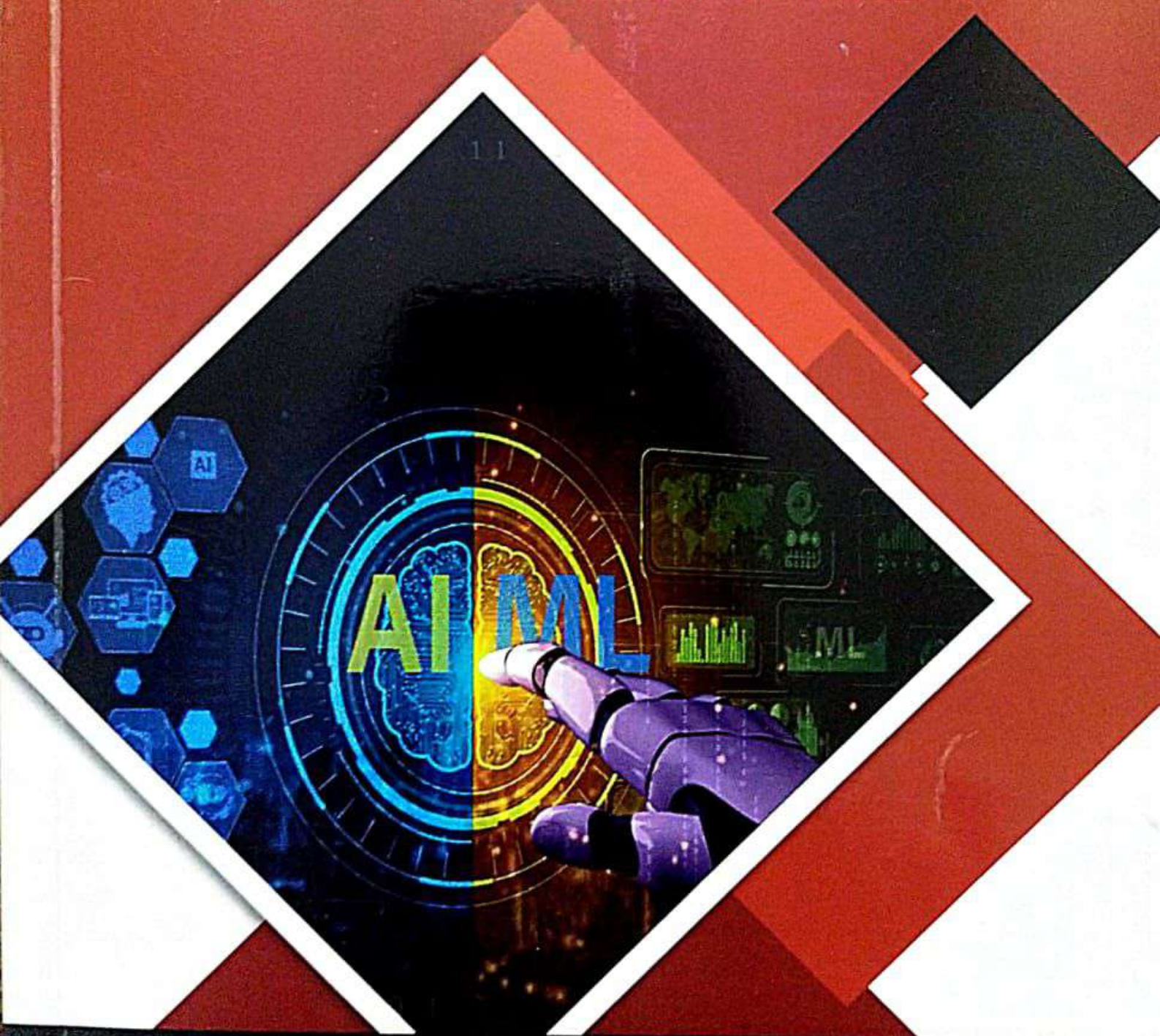
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PUBLISHED A BOOK ENTITLED

**Artificial Intelligence and Machine Learning**

ISBN:978-81-978058-8-2 e-ISBN:978-81-978058-6-8

DOI: <https://doi.org/10.5281/zenodo.13291897>



<https://icappublishers.com/>

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## About College

Reading the signs of the times, the Congregation of the Sisters of St. Anne, Tiruchirapali has vowed to place the thrust on opting for the poor. It has been working for the cause of the education and the upliftment of the poor and the downtrodden. After a thorough study, reflection, prayer and discernment, we have proposed to extend our mission by establishing the professional bachelor degree programmes (B.E - Mechanical Engineering, B.E - Computer Science and Engineering, B.E. - CSE (Artificial Intelligence & Machine Learning), B.E - Electrical and Electronics Engineering, B.E - Electronics and Communication Engineering) in the name and style of St. Anne's College of Engineering and Technology, chiefly focusing on the option for the economically challenged people in the academic year 2009-2010.

Our aim is to give hope and dignity to the student community through education by means of which character is moulded, strength of mind is increased, intellect is enhanced and also by means of which one can stand on one's own feet. We train the youth to see the good in every human being and to take the best out of each individual, to inculcate a strong sense of values in every student and to help every person promote love, peace and justice in the society.

## About Conference

Eighth National Conference on Emerging Trends in Engineering, Science and Technology 2025 (NCETEST'25) serves as a platform for researchers, academicians and industry experts to come together and discuss the latest innovations and advancements in engineering and technology. This conference aims to explore emerging trends in fields like artificial intelligence, robotics, renewable energy and materials science, offering a comprehensive overview of cutting-edge technologies shaping the future.

Through keynote speeches, technical sessions and panel discussions, participants gain valuable insights into current research, potential challenges and practical applications of these technologies in real-world scenarios. The event fosters collaboration, knowledge sharing, and networking, empowering professionals to drive progress and innovation in engineering, science and technology.

## Contact

**ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Anguchettyalayam, Panruti,  
Cuddalore District, Tamilnadu- 607 106.  
Website : [www.stannescet.ac.in](http://www.stannescet.ac.in)  
Email : [stannescet@gmail.com](mailto:stannescet@gmail.com)  
Phone : 04142 - 241661, 242661

ISBN: 978-81-972378-2-9



9 788197 237829

## Proceedings of the

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on

Emerging Trends in  
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NCETEST'25



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# INDEX

| S. No. | Article Title  | Page No. |
|--------|--|----------|
|        | <b>Department of Computer Science and Engineering &amp; AIML</b>   |          |
| 1      | <b>Driver Drowsiness Detection System Using Eye and Mouth Monitoring with Dlib and Opencv</b><br><i>T.Gayathri, Charumathi. and R.poovizhi.K</i>                                   | 1        |
| 2      | <b>Vision Powered Computing: A Virtual Mouse via Eye tracking</b><br><i>R.Manickavasgan , S. Bhagyasri, A.Pioshalbi and B.Jayasri.</i>   | 2        |
| 3      | <b>Tire crack detection using ResNet model</b><br><i>S.Manavalan, M.Ishwarya, A.Jeeva,B. Parkavi, and C.Sargunadevi</i>  | 3        |
| 4      | <b>Doctor Appointment Booking Website using Cloudinary and Next.js</b><br><i>K. Kayalvizhi, K. Vidhya, R.Ragavinothini ,R.Kamali and R.Kaviyapriya</i>                             | 4        |
| 5      | <b>Multi cancer predection using deep learning</b><br><i>A. Punitha Jilt, L. Jenisha, A. Sushmitha, S. Vijayalakshmi and S. Ashika</i>   | 5        |
| 6      | <b>Diabetic Retinopathy prediction using dianet</b><br><i>T.Gayathri, M.AgnesMaria, R.Geetha, A.Karthika and V. Vishnupriya</i>  | 6        |
| 7      | <b>Rensic evidence management system</b><br><i>Ms. V. Keerthana1, Abinaya.M, Kaniha.M, Susi.J , Suwathi.D.N</i>  | 7        |
| 8      | <b>Smart Complaint Tracking and Escalation System</b><br><i>M. Subathiradevi, G.Sowmiya, S.kaviya, and D.Nathiya</i>   | 8        |
| 9      | <b>AI - Powered Resume Screening and Interview Question Generation</b><br><i>S. Abinaya, I. Abilash, M.Mohamed Ali, S. Muhammad Anas and P. Shanmugapriyan.</i>                    | 9        |
| 10     | <b>Virtual Mirror: AI-Powered Size Detection and Virtual Garment Fitting in Physical Stores</b><br><i>Guani A Sabi, K. Rajkumar , R .Sathishkumar,V. Jagadeesh and S. Dinesh .</i> | 10       |
| 11     | <b>Real-Time Indian Sign Language Recognition Using Mediapipe And Deep Learning</b><br><i>Dr. Sasidhar A , Mohamed Ashraf Ali M</i>  | 11       |
| 12     | <b>Enhancing road safety with AI Driven traffic accident and analysis</b><br><i>Kayalvizhi. K, Dharani. J, Asin. A, Devika.G And Bhavani.M</i>                                     | 12       |
| 13     | <b>Predicting air quality using advanced machine learning algorithm for environmental insights</b><br><i>V.Keerthana,M. Janani and M. Arunthathi Ray</i>                           | 13       |
| 14     | <b>Decoding emotional analysis through social media</b><br><i>M.subathiradevi, S. Logeshwari, .S.Nivedha and D.Melodina</i>  | 15       |
| 15     | <b>Transforming Healthcare with AI-Powered Disease Prediction Based on Patient Data</b><br><i>T. Gayathri, D. Loyala Misra Rayen, S. Angel, R. Shrawanika</i>                      | 16       |
| 16     | <b>Empowering Workers &amp; Homeowners Through Seamless Job Solutions</b><br><i>S. Manavalan, R. Arunpandi, B. Jeyorgis Aliston, P. Sujan and U. Udhayakumar.</i>                  | 17       |

| S. No. | Article Title  | Page No. |
|--------|--|----------|
| 17     | <b>Smart Animal Detection &amp; Crop Protection</b><br><i>Sr. A. Punitha Jilt, V. Roshanwillson, Mr. V.Kamaleeshwaran , M A. Gopinath, V.Kaviyarasan</i>   | 18       |
| 18     | <b>Enhancing Road Safety with AI-Driven Traffic Accident Analysis and Prediction</b><br><i>S.Abinaya, M.G. Bhuvaneshwari, R. Abinayaa, J. Kalki A and M. Sivapriya</i>   | 19       |
| 19     | <b>Road Crack Detection Using Yolo Algorithm</b><br><i>Deepalakshmi E , Kalpana G</i>  | 20       |
| 20     | <b>Automated Helmet Detection For Motorcyclist Using Deep Learning</b><br><i>Dr. Sasidhar A *<sup>1</sup>, Monisha R K *<sup>2</sup>, Ashika Angel J *<sup>3</sup></i>   | 21       |
| 21     | <b>Ai Powered Accessibility For Enabling Effective Communication For Hearing And Speech Impaired In Virtual Platforms</b><br><i>S.Kokila<sup>1</sup>, K.Pradeep Kumar <sup>2</sup>, J.Arockia Jaya Surya <sup>3</sup>, M.Anbumani <sup>4</sup>, S.Kabilan <sup>5</sup></i> | 22       |
| 22     | <b>Ai-Driven Healthcare System For Doctor Recommendation And Video Consultation Based On Facial Expression And Speech Analysis</b><br><i>Mrs. Santhi.S<sup>1</sup>, Ms.Mahalakshmi.S<sup>2</sup>, Ms.Queensiamary.S<sup>3</sup>, Ms.Sowmiyabharathi.S<sup>4</sup></i>      | 23       |
| 23     | <b>Smart Phone Based Women Safety Application With Location Tracking And Emergency Response</b><br><i>Mr. Suriya Prakash.S<sup>1</sup>, Ms. Nithya.S<sup>2</sup>, Ms. Rithika.S<sup>3</sup>, Ms. Sangavi.S<sup>4</sup></i>   | 25       |
| 24     | <b>Consumer Electricity Consumption Prediction Using Machine Learning</b><br><i>Silambarasan M*<sup>1</sup>, Immaculate Mercy A<sup>2</sup></i>  | 26       |
| 25     | <b>Predicting Neighborhood-Level Residential Carbon Emissions From Street View Images Using Computer Vision And Machine Learning</b><br><i>Mrs. M.B.Sanjay Raam Kumar <sup>1</sup></i>   | 27       |
| 26     | <b>Dineflow – Restaurant Management With Smart Order Protection</b><br><i>Mrs. K. Devika *<sup>1</sup>, Mr. A. Asath *<sup>2</sup>, Mr. A. Ashok Naveen Kumar *<sup>3</sup>, Mr. V. Chandrakumar *<sup>4</sup>, Mr. K. Thamaraiselvan *<sup>5</sup></i>                    | 28       |
| 27     | <b>E-Ration Shop With Web Application Using MI</b><br><i>Ragamyndan G*<sup>1</sup></i>   | 29       |
| 28     | <b>Real time Air quality monitoring using iot and machine learning</b><br><i>B.Siva,</i>   | 30       |
| 29     | <b>Smart Queueless Shopping Generation With Qr In Super Market</b><br><i>Jagannathan R, Ms.J.Anandavalli</i>   | 31       |
| 30     | <b>Smart block chain contract on post office account portal</b><br><i>Ajay K, Pragadeesh .R</i>  | 32       |
| 31     | <b>Visual Search Engine for E-Commerce with Deep Convolution</b><br><i>Vignesh R, Immaculate mercy.A</i>   | 33       |

| S. No.  | Article Title  | Page No. |
|---|--|----------|
| 32  | <b>Government Exam Candidate Authentication Using Artificial Intelligence</b><br><i>Hariharan.R, Dr.Swetha</i>   | 35       |
| 33  | <b>Implementing A Cloud Based Disaster Recovery Solution for Businesses</b><br><i>G.Balaji,</i>  | 36       |
| <b>Department of Electrical and Electronics Engineering</b> |  |          |
| 34  | <b>Design of Efficient Energy Storage System to Integrate Renewable Energy Source to Support in Grid</b><br><i>Keerthana V, Santhi K</i>   | 37       |
| 35  | <b>Wireless Power Transfer for Energy Efficient Brushless DC Motor Pump in Isolated Environment</b><br><i>Richard Pravin A, Pongiannan R K</i>   | 38       |
| 36  | <b>Impact of Dead-Time on Inverters in Wireless Power Transfer Systems using a Hybrid FOA-MHFAN Approach</b><br><i>Mr. Franklin J, Dr. Pongiannan R K</i>  | 39       |
| 37  | <b>Smart Lightning Arrester with Energy Harvesting and Early Warning System for Enhanced Safety in Firework Industry</b><br><i>Mr. J. Ramesh, V. Adhirai, A. Asraf Ali, S. Jeganathan, M. Vinoth</i>           | 40       |
| 38  | <b>Smart Energy Harvesting System Using EMI and Thermal Energy from Transmission Lines with IoT Monitoring</b><br><i>Dr. V. Yogambari, A. Jegatheswari, G. Elumalai, B. Michael Aasic, S. Sowmiya</i>          | 41       |
| 39  | <b>Optimal Reconfiguration of Distribution Network Considering Load Variation Using Chameleon Swarm Optimization Algorithm</b><br><i>Dr. K. Sriram, A. Abitha, T. Udhayalakshmi, K. Praveen, M.Manivasagan</i> | 42       |
| 40  | <b>Driving–Charging Integrated Controller for Electric Vehicles</b><br><i>Mr.V.Balaji , S.Denis , M.Dishan, M.Jana, A.Anbu</i>   | 43       |
| 41  | <b>Smart enhancement of electric V2V communication system using IoT in ITS</b><br><i>Mr. A. Sundarapandiyan, B.L. Sivabalan, S. Megharjun, M.Umar Bin Hussain</i>  | 44       |
| 42  | <b>Optimal Allocation of EV Charging Stations in Distribution Networks</b><br><i>Mrs. J. Arul Martinal, S. Chithiraiselvan, K. Sivaraj, A. Agash</i>   | 45       |
| 43  | <b>Optimal Power Flow of Power System with Location Marginal Price Using Brown Bear Optimisation</b><br><i>Dr. K. Sriram, S. Gananaraj, P. Santhosh, E. Elavarasan, D.Dhanush</i>                              | 46       |
| 44  | <b>Grey Wolf Optimization Algorithm based Economic Dispatch</b><br><i>Mr. J.Ramesh, Dr. R. Arokiadass, S.Prem , S.Premkumar, S.Sureshkumar, T.Vishnuchandhiran</i>   | 47       |

| S. No.   | Article Title  | Page No. |
|--|--|----------|
| 45   | <b>Hybridization of Internal Combustion Engine Motorcycle with Electric Vehicle Technology</b><br><i>Mrs. Anuja Prashant Diwan, Mrs. Mehjabeen Usman, M. Arun Kumar, S. Hariharan, M Monisha</i>   | 48       |
| 46   | <b>Solar Ion Propulsion Harnessing Electric Fields for Deep Space Travel</b><br><i>Mrs. T. Arthi, R. Praveen kumar, S. Raguraman, M.Dhivagar</i>   | 49       |
| 47   | <b>A Novel Index Based Congestion Mitigation and Voltage Stability Enhancement in Power System Line Outages Using Facts Devices in Hybrid Elephant Herding Optimization - Marine Predators Algorithm</b><br><i>S.P. Mangaiyarkarasi, M.Gnanaprakash, M. Sumanraj, D.Periyazhagar</i> | 50       |
| 48   | <b>Multi-Objective Planning Model of Wind Solar PV Battery Storage-Based Ders in Smart Grid Distribution System</b><br><i>Mr. S. Prabakaran, V. Mohamed Irfan, A. Balamurugan, S. Sumanraj, M. Praveen</i>   | 51       |
| 49   | <b>Second-Order Power Factor Correction in BLDC Motor Using a Buck-Boost Converter</b><br><i>Mr Kumarasaravanan K, Mr. Sridhar R</i>   | 53       |
| 50   | <b>A Module-Integrated Isolated Solar Micro Inverter</b><br><i>M. Dhivya, R.Vinoth Kumar</i>   | 54       |
| 51   | <b>Dc–Dc Converter for PV Transformer less DVRS with Coupled Three-Winding Inductor/ Switching Capacitor in Hybrid Renewable Energy Grid Systems</b><br><i>Dr. A.Alaudeen, V.Vignesh Kumar</i>   | 55       |
| 52   | <b>An Integrated Charger of Wireless Power Transfer, Onboard Charger, and Auxiliary Power Module for Electric Vehicles</b><br><i>Mr. A. Sundarapandiyam, K. Mohanraj, V. Hariharan, A. Akash, D. Nijanth Kumar</i>   | 57       |
| <b>Department of Electronics and Communication Engineering</b> |  |          |
| 53   | <b>Optimized Transmission Design for Power-Efficient IRS-Assisted Uplink NOMA Systems</b><br><i>Mrs.K.Mayavady<sup>1</sup>, Mr. D.Devanathan<sup>2</sup>, Mr.K.Kishor<sup>3</sup>, Ms. V.Nivetha<sup>4</sup>, Ms.V.Suvetha</i>   | 58       |
| 54   | <b>Secure and Low-Cost Authentication for IOMT-Enabled Remote Healthcare System</b><br><i>Mrs. Baby Joice<sup>1</sup>, Mr. P.Yathees Waran<sup>*2</sup></i>  | 59       |
| 55   | <b>Dual Wash Pro: A Modular Dual-Drum Washing Machine for Smart, Sustainable Laundry Solutions</b><br><i>Mr. D. Devanathan* 1 , K. Rupika<sup>2</sup> , R. Srinithy<sup>3</sup> , V. Hariharan</i>   | 60       |
| 56   | <b>Smart Pen and Digital Pad for Students With Specific Learning Disabilities (SLD)</b><br><i>Mr. V. Nagaraj 1 , D. Vaishnavi 2 , A.Vanathi 3 , A. Thilakesvar 4</i>   | 61       |

| S. No.                                      | Article Title  | Page No. |
|---|--|----------|
| 57  | <b>THAWF SENSE: Artificial intelligence for poultry management System</b><br><i>Mr. A. Ashwin<sup>1</sup>, Mr. S. Sanjai<sup>2</sup>, Mr. A. Ragunath<sup>3</sup>, Mr. R. Suriya<sup>4</sup>,<br/>Mr. S. Balabasker</i>            | 62       |
| 58  | <b>Smart Crop Protection And Alert System For Detecting Wild Animals</b><br><i>V.Gopinath<sup>1</sup>, D.Inbaraj<sup>2</sup>, A.Sunrendhar<sup>3</sup>,Mr.R.Radhakrishnan<sup>4</sup></i>  | 63       |
| 59  | <b>Automated Irrigation System For Paddy Utilizing Sensors</b><br><i>Mrs. A. Archana<sup>1</sup>, Mrs. A. Dhivya<sup>2</sup>, Mrs. E. Prithisha<sup>3</sup>, Mr.<br/>J.Mohan<sup>4</sup> Mrs. B. Mary Amala Jenni<sup>5</sup></i>  | 64       |
| 60  | <b>Automated and decentralized cloud based water level and quality audit system using IoT</b><br><i>B. Arun Kumar<sup>1</sup>, N. Viswanath<sup>2</sup>, P. Rajamohan<sup>3</sup>, U.<br/>Mangaleshwar<sup>4</sup></i>             | 65       |
| 61  | <b>Integrated Train Safety System with Obstacle Detection and SOS Alerts</b><br><i>Srilatha A<sup>1</sup>, Sivaraj R<sup>2</sup>, Ruthradharini S<sup>3</sup>, K.Sujatha, M.E.,Ph.D<sup>4</sup></i>                                | 66       |
| 62  | <b>GPS Tracking System for Government Bus</b><br><i>Ms. Vaishali.S<sup>1</sup>, Ms. Deepika.K<sup>2</sup>,Ms Anitha.R<sup>3</sup>, Mr. S. Durairaj<sup>4</sup></i>   | 67       |
| 63  | <b>IoT and ML-Based Fire Accident Prevention System for Electric Vehicle Using Supercapacitor and Thermogel Cooling.</b><br><i>P.Mohana ,E.Abi ,V.Senthamizh nila , Mrs. A.Samadhana priya</i>                                     | 68       |
| 64  | <b>Public Toilet Maintenance Using IoT</b><br><i>Duraimurugan . A<sup>1</sup> Immanvel . T<sup>2</sup> Karthikeyan . U<sup>3</sup> Srihari. K,<br/>Mrs. D. Umamaheshwari</i>   | 69       |
| 65  | <b>Effective Image Pre Processing Through Hybridization Approach</b><br><i>Mr. B. Theeban Chakkaravarthy, B.Tech., M.E., Ph.D. Scholar</i>   | 70       |
| 66  | <b>Railway Track Monitoring System Using Computer Vision and Image Processing</b><br><i>Dr.M.Phemina Selvi Aakash D ,Mohammed Aslam A,Mounika S M</i>  | 71       |
| 67  | <b>Smart Vegetable Price Monitoring: Data Collection, Analysis, Visualization and Insights for Farmers</b><br><i>P sathishkumar<sup>1</sup>, S selvakumar<sup>2</sup>, P Balaguru<sup>3</sup><br/>Mr. V Venkatesan<sup>4</sup></i> | 72       |
| 68  | <b>Emergency Alert System</b><br><i>Archana<sup>1</sup>, S.Subashini<sup>2</sup>, V. Jeevitha<sup>3</sup>, S. Srimathi<sup>4</sup>,<br/>Mrs.B. Mary Amala Jenni<sup>5</sup></i>  | 73       |
| <b>Department of Mechanical Engineering</b> |  |          |
| 69  | <b>Prospect of Moringa seed oil as a sustainable biodiesel fuel in India</b><br><i>R.Sasikumar, D.Kamalakannan, G.Premkumar, S.Ahamedashif ,<br/>S.Hariharan</i>   | 74       |
| 70  | <b>Principle Studies on Nanostructures</b><br><i>D. Kamalakanna, T.Elangovan, K. Shanmuga Elango,<br/>T.Harikrishnakumar,V. Chandru</i>  | 75       |

| S. No. | Article Title  | Page No. |
|--------|--|----------|
| 71     | <b>Numerical Modeling of Micromechanical Finite Element Analysis of Rubber-CNT Composites</b><br><i>D.Kamalakannan, K. Shanmuga Elango, R.Arokiadass,S. Akash , A. Abishek</i>   | 76       |
| 72     | <b>Fe analysis of thin laminated composite plate with cutout under axial compression</b><br><i>D. Kamalakanna, K. Shanmuga Elango, R. Sasikumar, P. Manibharathi, S. Mohamed Ismail</i>  | 77       |
| 73     | <b>Machinability studies on stainless steel (SS304) under negative polarity of electrical discharge machining process</b><br><i>T.Elangovan, M.Kaviprasath, T.Dhivakar, T.Vishnuiraj</i>   | 78       |
| 74     | <b>Automated effective solar tracking system</b><br><i>Panjamoorthy S , Rajesh A , Kaviarasan K , Adhavan R , Ommurugadhasan D</i>   | 80       |
| 75     | <b>Performance Evaluation of Biomass Dryer for Drying Amla</b><br><i>P.Murugan, S.Dhanushkodi, Muthazhagan</i>   | 81       |
| 76     | <b>Effect of process parameters on deposition rate and surface roughness of electro discharge coating on AA7075 aluminium alloy</b><br><i>K. Shanmuga Elango, R.Arokiadass P. Bharath, D.Velpandiyan, R.Vishwa</i>                         | 83       |
| 77     | <b>IoT Based Water Leak Detection System for Smart Cities</b><br><i>G. Hariharan, K. Nelsia Priyadharshini, A.Senthilkumar, A.Sibikumaran</i>  | 85       |
| 78     | <b>A Critical Review of Technology Readiness Levels and Commercialization</b><br><i>N. Muthazhagan, Sr. A. Josephine Mary, D. Kamalakannan</i>   | 86       |
| 79     | <b>Future Trends of 3D Printing Technologies in Aerospace and Defense: Advanced Materials</b><br><i>Vignesh V, Vijayakumar S, Naveen N , Sivakumar V</i>   | 87       |
| 80     | <b>Smart Pipeline Water Leak Detection System Using IoT for a Sustainable Future</b><br><i>G. Hariharan, A. Senthilkumar, E. Wiselin Kiruba, S. Arokiasamy, A. Mahendiran</i>  | 88       |
| 81     | <b>Nano - composite Materials: An Introduction to Their Types and Applications</b><br><i>S.Aanandhakumar<sup>1*</sup>,R.Ramasamy<sup>2</sup>, V.Ganesamoorthi<sup>3</sup>, K.Desik<sup>4</sup></i>   | 89       |
| 82     | <b>Detecting Wild Life with Android and IoT</b><br><i>Mr.N. Durairaj<sup>1*</sup>, Mr.M.S.Praveen<sup>2</sup>Mr.A.K.Karthikeyan<sup>3</sup></i>  | 90       |
| 83     | <b>Enhancement of Mechanical Properties of EPDM Rubber Composites through Partial Replacement of Carbon Black with Nanocellulose</b><br><i>D. Kamalakannan<sup>1</sup> and Dr. B. Prabu,<sup>2</sup> Ragupathy Danusuraman<sup>3</sup></i> | 91       |
| 84     | <b>Floating Offshore Wind Turbine</b><br><i>Mr. J. Prasath1, Mr. S. Harish2,</i>   | 92       |

| S. No.  | Article Title  | Page No. |
|---|--|----------|
| 85  | <b>Examine The Mechanical Properties and Immersion Corrosion Behavior of Aluminum 8011 Hybrid Nano Composites</b><br><i>K. Saravanan * 1, R. Desigan 2, M. Ignocrossly 3, M. Kathiravan 4</i>                              | 93       |
| 86  | <b>Fuel Production From Non-Recyclable Plastics Through Thermal Treatment</b><br><i>Sathesh Kumar.D , Abinesh.M , Balanathinish.B</i>  | 94       |
| <b>Department of Science &amp; Humanities</b> |  |          |
| 87  | <b>Long-Term Analysis and Forecast of Monsoonal Rainfall Correlation between Northeast Monsoons and Southwest Monsoons over Karaikal, Puducherry (UT), India</b><br><i>Mehanathan Thirumarran and Nagaraj Vaithilingam</i> | 96       |
| 88  | <b>MnO<sub>2</sub>/Porous Nanorods for Supercapacitor Applications</b><br><i>K. Ashokkumar, S. Visweswaran and P. Pugazhendiran</i>  | 97       |
| 89  | <b>Investigation of Spectral and Optical Properties on Dopant Concentration of Ni Based BaTiO<sub>3</sub> Ceramics</b><br><i>R. Rajalakshmi and S. Chandra</i>   | 98       |

## **DRIVER DROWSINESS DETECTION SYSTEM USING EYE AND MOUTH MONITORING WITH DLIB AND OPENCV**

**Ms. T.Gayathri<sup>\*1</sup>, Ms. Charumathi<sup>2</sup>, R , Ms.Poovizhi.K<sup>3</sup>**

<sup>1</sup> *Assistant Professor, Department of CSE, St. Anne's CET, Anguchettpalayam, Panruti, India,*

<sup>2</sup> *Student, Department of CSE, St. Anne's CET, Anguchettpalayam Panruti, India,*

<sup>3</sup> *Student, Department of CSE, St. Anne's CET, Anguchettpalayam, Panruti, India*

### **Abstract**

Drowsy driving is a major factor contributing to road accidents, especially during long- distance travel or extended driving periods. This project proposes a real-time driver drowsiness detection system based on facial landmark analysis. The system utilizes Dlib's 68-point facial landmark detector, OpenCV, and face recognition to track facial features and identify signs of fatigue. Two primary indicators are monitored: the Eye Aspect Ratio (EAR) to detect prolonged eye closure, and mouth aspect ratio to detect yawning. Threshold values are defined for both metrics, and alerts are triggered when the values remain beyond the thresholds for a specific duration. This approach offers a lightweight, efficient, and accurate solution for identifying early signs of drowsiness without the need for complex models. The system can be integrated into vehicles to improve driver safety and prevent potential accidents.

## **VISION POWERED COMPUTING: A VIRTUAL MOUSE VIA EYE TRACKING**

**Mr. R. Manickavasgan <sup>\*1</sup>, Ms. S. Bhagyasri<sup>2</sup>, A.Pioshalbi<sup>3</sup>, B.Jayasri<sup>4</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

“Vision-Powered Computing: A Virtual Mouse via Eye Tracking,” an AI-based hands-free interface enabling users to control the cursor using only their eye movements. Built using Python, OpenCV, and MediaPipe, the system replaces traditional input devices and enhances accessibility for people with motor disabilities. Unlike existing systems requiring expensive hardware, this low-cost implementation utilizes standard webcams and real-time computer vision algorithms to perform cursor movements, clicks, and scrolling. Experimental results confirm high accuracy and responsive interaction on both PC and Android devices, making the system ideal for inclusive and accessible human-computer interaction.

## **TIRE CRACK DETECTION USING RESNET MODEL**

**Mr. S. Manavalan<sup>1</sup>, M. Ishwarya<sup>2</sup>, A. Jeeva<sup>3</sup>, B. Parkavi<sup>4</sup>, C. Sargunadevi<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St. Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>5</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

In the evolving landscape of automotive safety and maintenance, the assessment of tire health stands as a crucial component, influencing not only vehicle performance but also passenger safety. This project introduces a comprehensive machine learning model designed to classify tire health by leveraging the robust capabilities of deep convolutional neural networks (CNNs), specifically ResNet34 and ResNet50 architectures. These networks, renowned for their depth and ability to learn from residual mappings, have been adapted to analyze and interpret tire tread images, enabling the accurate classification of tire conditions into categories such as 'good' and 'defective'.

## **DOCTOR APPOINTMENT BOOKING WEBSITE USING CLOUDINARY AND NEXT.JS**

**Mrs. K. KAYALVIZHI<sup>1</sup>, Ms. K. VIDHYA<sup>2</sup>, Ms.R.RAGAVINOTHINI<sup>3</sup>, Ms.R.KAMALI<sup>4</sup>,  
Ms.R.KAVIYAPRIYA<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>5</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

This is a simple website that helps people book doctor appointments online. It is made with Next.js, so it's fast and works well on phones and computers. Cloudinary is used to store images like doctor photos and patient records safely. Users can sign up, see doctor profiles, and book appointments easily. This makes seeing a and doctor quicker more convenient.

## MULTI CANCER PREDICTION USING DEEP LEARNING

Sr. A. Punitha Jilt <sup>1</sup>, L. Jenisha<sup>2</sup>, A. Sushmitha<sup>3</sup>, S. Vijayalakshmi<sup>4</sup>, S. Ashika<sup>5</sup>

<sup>1</sup> Assistant Professor, Department of CSE, St. Anne's CET,  
Anguchettypalayam, Panruti, India

<sup>2</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India

<sup>3</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India

<sup>4</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India

<sup>5</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India

### Abstract

Deep learning approach is used to predict the chance of acquiring several types of malignancies, including breast, lung and skin cancer. To find patterns and risk factors linked to each kind of cancer, deep learning algorithms, such as convolutional neural networks and recurrent neural networks, are trained on enormous databases of patient data, including genetic markers, lifestyle variables, and medical history. Deep learning algorithms can accurately forecast an individual's risk of acquiring lung, Skin, breast cancer by evaluating these intricate datasets. Results indicate varied performance across cancer types, with breast, lung, and skin cancer models exhibiting high accuracy (>98%) and lower validation losses, suggesting strong generalization capabilities. These findings high lights the DL's potential in enhancing cancer detection, early diagnosis, and personalized treatment planning.

## **DIABETIC RETINOPATHY PREDICTION USING DIANET**

**Ms.T. Gayathri<sup>1</sup>, M. Agnes Maria<sup>2</sup>, R. Geetha<sup>3</sup>, A. Karthika<sup>4</sup>, V. Vishnupriya<sup>5</sup>**

*<sup>1</sup>Assistant Professor, Department of CSE, St.Anne's CET, Anguchettyalayam, Panruti, India*

*<sup>2</sup>UG Student, Department of CSE, St.Anne's CET, Anguchettyalayam, Panruti, India*

*<sup>3</sup>UG Student, Department of CSE, St.Anne's CET, Anguchettyalayam, Panruti, India <sup>4</sup>UG*

*Student, Department of CSE, St.Anne's CET, Anguchettyalayam, Panruti, India <sup>5</sup>UG*

*Student, Department of CSE, St.Anne's CET, Anguchettyalayam, Panruti, India*

### **Abstract**

Diabetes is a major global health concern, and early diagnosis is critical to reducing its impact. This study introduces DiaNet, a novel deep learning model based on a multi-stage convolutional neural network (CNN) that predicts diabetic retinopathy from retinal images with over accuracy. Using a relatively small dataset from the Qatari population, DiaNet effectively identifies retinal regions linked to diabetes, as validated by medical experts. The model outperforms traditional clinical data-based approaches, demonstrating that retinal images alone can distinguish diabetic individuals. Furthermore, findings suggest potential prognostic value of retinal images for related conditions such as hypertension and ischemic heart disease, advocating for their integration into future clinical diagnostic workflows.

## **RENSIC EVIDENCE MANAGEMENT SYSTEM**

**Ms.V. Keerthana<sup>1</sup>, Abinaya.M<sup>2</sup>, Kaniha.M<sup>3</sup>, Susi.J<sup>4</sup>, Suwathi.D.N<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

Forensic evidence management is a critical aspect of modern criminal investigations, requiring meticulous handling, secure storage, and accurate chain of custody documentation. Traditional evidence management systems face challenges such as data tampering, unauthorized access, and lack of transparency. To address these issues, this research project presents an innovative implementation of blockchain technology for the forensic evidence management system. The proposed system leverages the decentralized and immutable nature of blockchain to ensure the integrity, security, and transparency of forensic evidence throughout its lifecycle. Smart contracts are employed to automate the chain of custody process, enhancing efficiency and reducing the risk of human errors. In addition, the use of cryptographic hashing techniques enables the verification of evidence authenticity without revealing sensitive details.

Proceedings of the  
8<sup>th</sup> National Conference on Advancements in Engineering, Science and Technology (NCETEST '25)  
**SMART COMPLAINT TRACKING AND ESCALATION  
SYSTEM**

**Mrs. M. Subathiradevi<sup>1</sup>, G.Sowmiya<sup>2</sup>, S.kaviya<sup>3</sup>, D.Nathiya<sup>4</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

## **Abstract**

In today's fast-paced digital era, effective governance hinges on timely and transparent public grievance redressal. Traditional systems often fall short due to inefficiency and lack of visibility, leading to citizen dissatisfaction and delayed issue resolution. To overcome these challenges, this project proposes a digital petition management system that streamlines the process of lodging and addressing public grievances. Citizens can easily register complaints with detailed descriptions, attach images, and provide GPS-based location proof for authenticity. Once submitted, petitions are instantly forwarded to the Block Development Officer (BDO) and relevant officials, who are required to take action within three days. If unresolved, the system escalates the issue automatically to higher authorities. An integrated AI module classifies complaints, predicts resolution timelines, and generates insightful analytics for better decision-making. Built using the MERN stack (MongoDB, Express.js, React.js, and Node.js), the platform ensures scalability, security through JWT-based authentication, and efficient data handling. A dedicated admin dashboard offers real-time tracking of petitions, promoting transparency and accountability. Overall, this system bridges the gap between citizens and government, revolutionizing public grievance management through technology-driven governance.

## **AI – POWERED RESUME SCREENING AND INTERVIEW QUESTION GENERATION**

**Ms. S. Abinaya\*<sup>1</sup>, Mr. I. Abilash\*<sup>2</sup>, Mr. M. Mohamed Ali\*<sup>3</sup>, Mr. S. Muhammad  
Anas\*<sup>4</sup>, Mr. P. Shanmugapriyan\*<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St. Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

This project presents an AI-powered system that helps HR professionals automatically analyze resumes and generate interview questions. The system extracts technical and soft skills using NLP techniques. If technical skills are missing, it infers them from project descriptions. Based on the extracted skills, it uses the Gemini 1.5 Flash model to dynamically generate relevant and beginnerfriendly interview questions. This reduces HR workload, speeds up the hiring process, and ensures better interview preparation — all through a simple and interactive web interface.

## **VIRTUAL MIRROR: AI-POWERED SIZE DETECTION AND VIRTUAL GARMENT FITTING IN PHYSICAL STORES**

**Ms. Guani A Sabi <sup>\*1</sup>, Mr. K. Rajkumar <sup>2</sup>, Mr. R.Sathishkuma<sup>3</sup>, Mr. V. Jagadeesh <sup>4</sup>,  
Mr. S. Dinesh <sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>5</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

5

### **Abstract**

This project introduces a smart virtual try-on system for offline stores, combining real-time body measurement using MediaPipe, size prediction through machine learning, and realistic garment overlay using CP-VTON. The system recommends size-matching clothes and allows customers to visualize selected garments on themselves via a live camera, enhancing the fitting experience without the need for physical trials.

## **ENHANCING ROAD SAFETY WITH AI DRIVEN TRAFFIC ACCIDENT ANALYSIS AND PREDICTION**

**Mrs.K. Kayalvizhi\*<sup>1</sup>, J. Dharani<sup>2</sup>, A. Asin<sup>3</sup>, M. Bhavani<sup>4</sup>, G. Devika<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>5</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

Road traffic accidents remain one of the leading causes of injury and death globally, posing a significant challenge to public safety and urban mobility. Traditional approaches to accident prevention and analysis often fall short due to limitations in data processing, real-time response, and predictive capability. This presentation explores the integration of Artificial Intelligence (AI) in traffic accident analysis and prediction, highlighting how AI can enhance road safety through data-driven insights, real-time monitoring, and predictive modeling. By leveraging data from traffic cameras, sensors, GPS devices, and historical accident records, AI algorithms can detect patterns, predict high-risk zones, and assist in proactive traffic management. Techniques such as machine learning, deep learning, and natural language processing play a pivotal role in automating data analysis and generating actionable insights. This AI-driven approach not only improves the efficiency of traffic systems but also enables timely interventions that can prevent accidents before they occur. Through case studies, system workflows, and discussion of current challenges, this work underscores the transformative potential of AI in creating safer, smarter roads.

# **PREDICTING AIR QUALITY USING ADVANCED MACHINE LEARNING ALGORITHM FOR ENVIRONMENTAL INSIGHTS**

**Ms. V. Keerthana<sup>\*1</sup>, M. Janani<sup>2</sup>**

<sup>1</sup> *Assistant Professor, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India.*

<sup>2</sup> *Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India.*

## **Abstract**

Air pollution is a growing concern in many parts of the world, especially in rapidly developing countries like India. Poor air quality has serious effects on human health, contributing to respiratory diseases, heart problems, and reduced life expectancy. Monitoring and predicting air pollution levels can help individuals and governments take preventive actions and improve public health outcomes. This project focuses on predicting air quality levels using advanced machine learning algorithms. The data used in this study was collected from air quality monitoring stations managed by the Central Pollution Control Board (CPCB) and State Pollution Control Boards (SPCBs) in India. These datasets include various air pollutants such as PM<sub>2.5</sub>, PM<sub>10</sub>, NO<sub>2</sub>, SO<sub>2</sub>, CO, and more, along with meteorological data like temperature and humidity. We performed thorough data preprocessing, exploratory data analysis, and feature engineering to prepare the dataset for model training. Several machine learning algorithms were explored, including Linear Regression, Random Forest, and XGBoost, to determine which model offers the best performance in predicting pollution levels. The models were evaluated using standard metrics such as R<sup>2</sup> Score, Mean Absolute Error (MAE), and Root Mean Squared Error (RMSE). To make the model accessible and user-friendly, we developed a simple web application using Streamlit, allowing users to input environmental data and receive real-time predictions of air quality levels. This can be especially useful for the public, health organizations, and policymakers. The goal of this project is to provide a smart, data-driven tool

that helps raise awareness about pollution levels and enables proactive measures to protect public health. By combining environmental data and machine learning, this project demonstrates how technology can be used for impactful and meaningful solutions in environmental monitoring.

## **DECODING EMOTIONAL THROUGH SENTIMENT ANALYSIS SOCIAL MEDIA CONSERVATION**

**Ms. V. Keerthana<sup>\*1</sup>, Ms .S.Logeshwari<sup>2</sup>,Ms.S.Nivedha<sup>3</sup> ,Ms.D.Melodina<sup>4</sup>**

<sup>1</sup> *Assistant Professor, Department of CSE, St. Anne's CET, Anguchettpalayam, Panruti, India*

<sup>2</sup> *Department of CSE, St. Anne's CET, Anguchettpalayam, Panruti, India*

<sup>3</sup> *Department of CSE, St. Anne's CET, Anguchettpalayam, Panruti, India*

<sup>4</sup> *Department of CSE, St. Anne's CET, Anguchettpalayam, Panruti, India*

### **Abstract**

This study uses sentiment analysis to decode emotions in social media conversations. By applying natural language processing and machine learning, it identifies emotional trends such as joy, anger, or sadness across platforms like Twitter and Facebook. The findings help understand public reactions to events, brands, and policies, offering insights for fields like psychology, marketing, and social research.

## **TRANSFORMING HEALTHCARE WITH AI-POWERED DISEASE PREDICTION BASED ON PATIENT DATA**

Ms. T. Gayathri\*<sup>1</sup>, D. Loyala Misra Rayen<sup>2</sup>, S. Angel<sup>3</sup>, R. Shrawanika<sup>4</sup>

*<sup>1</sup>Assistant Professor, Department of CSE, St. Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2</sup>Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India <sup>3</sup> Student,  
Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India <sup>4</sup>Student,  
Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

Artificial intelligence (AI) is a powerful and disruptive Area of computer science, with the potential to Fundamentally transform the practice of medicineand The delivery of healthcare. In this review article, we Outline recent breakthroughs in the application of AI in Healthcare, describe a roadmap to building effective, Reliable and safe AI systems, and discuss the possible Future direction of AI augmented healthcare systems.

## **EMPOWERING WORKERS & HOMEOWNERS THROUGH SEAMLESS JOB SOLUTIONS**

**Mr. S. Manavalan <sup>\*1</sup>, Mr. R. Arunpandi <sup>\*2</sup>, Mr. B. Jeyorgis Aliston <sup>\*3</sup>, Mr. P. Sujan <sup>\*4</sup>, Mr. U. Udhayakumar <sup>\*5</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>5</sup> Student, Department of CSE, St. Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

Work Connect is a web-based platform that connects skilled blue-collar workers with homeowners in need of reliable household services. The platform offers an intuitive interface for job search and hiring, backed by secure payments, real-time notifications, and AI-powered matching. It improves employment access for workers and simplifies the hiring process for customers by ensuring trust, transparency, and efficiency. Work Connect is a smart platform connecting skilled blue-collar workers with homeowners needing reliable services. It enables job matching, secure payments, automated scheduling, and real-time communication benefiting both service providers and users.

## **SMART ANIMAL DETECTION & CROP PROTECTION**

**Sr. A. Punitha Jilt\*<sup>1</sup>, Mr. V. Roshanwillson\*<sup>2</sup>, Mr. V.Kamaleeshwaran \*<sup>3</sup>, Mr.  
A. Gopinath\*<sup>4</sup>, Mr. V.Kaviyarasan \*<sup>5</sup>**

<sup>1</sup> Head Of The Department, *Department of CSE, St.Anne's CET,  
Anguchettpalayam, Panruti, India*

<sup>2</sup> *Student, Department of CSE, St.Anne's CET, Anguchettpalayam, Panruti, India*

<sup>3</sup> *Student, Department of CSE, St.Anne's CET, Anguchettpalayam, Panruti, India*

<sup>4</sup> *Student, Department of CSE, St.Anne's CET, Anguchettpalayam, Panruti, India*

<sup>5</sup> *Student, Department of CSE, St.Anne's CET, Anguchettpalayam, Panruti, India*

### **Abstract**

Forensic evidence management is a critical aspect of modern criminal investigations, requiring meticulous handling, secure storage, and accurate chain of custody documentation. Traditional evidence management systems face challenges such as data tampering, unauthorized access, and lack of transparency. To address these issues, this research project presents an innovative implementation of blockchain technology for the forensic evidence management system. The proposed system leverages the decentralized and immutable nature of blockchain to ensure the integrity, security, and transparency of forensic evidence throughout its lifecycle. Smart contracts are employed to automate the chain of custody process, enhancing efficiency and reducing the risk of human errors. In addition, the use of cryptographic hashing techniques enables the verification of evidence authenticity without revealing sensitive details. A prototype of the blockchain-based forensic evidence management system was developed and tested in a controlled environment. The evaluation results demonstrate that the system provides enhanced data integrity, increased accountability, and improved accessibility while protecting sensitive information from unauthorized parties.

## ENHANCING ROAD SAFETY WITH AI-DRIVEN TRAFFIC ACCIDENT ANALYSIS AND PREDICTION

Ms. S.Abinaya\*<sup>1</sup>, Ms. M.G. Bhuvaneshwari\*<sup>2</sup>, Ms. R. Abinayaa\*<sup>3</sup>, Ms. J. Kalki\*<sup>4</sup>, Ms. M. Sivapriya\*<sup>5</sup>

<sup>1</sup> Assistant professor, Department of CSE, St. Anne's CET,  
Anguchettypalayam, Panruti, India

<sup>2</sup> 2<sup>ND</sup> YEAR, Department of AIML(CSE), St. Anne's CET,  
Anguchettypalayam, Panruti, India

<sup>3</sup> 2<sup>ND</sup> YEAR, Department of AIML(CSE), St. Anne's CET, Anguchettypalayam, Panruti, India

<sup>4</sup> 2<sup>ND</sup> YEAR, Department of AIML(CSE), St. Anne's CET, Anguchettypalayam, Panruti, India

<sup>5</sup> 2<sup>ND</sup> YEAR, Department of AIML(CSE), St. Anne's CET,  
Anguchettypalayam, Panruti, India

### Abstract

Road traffic accidents are a significant cause of death and injury globally. Traditional accident analysis methods are reactive and lack real-time prediction capabilities. This paper proposes an AI-driven system to analyze traffic accident data, predict potential accident hotspots, and provide proactive safety measures. By leveraging machine learning algorithms on historical traffic data, environmental conditions, and driver behavior, this system aims to enhance road safety and reduce accident rates. The proposed model not only predicts high-risk zones but also assists traffic authorities in making data-driven decisions.

## **DINEFLOW – RESTAURANT MANAGEMENT WITH SMART ORDER PROTECTION**

**Mrs. K. Devika \*<sup>1</sup>, Mr. A. Asath \*<sup>2</sup>, Mr. A. Ashok Naveen Kumar \*<sup>3</sup>,  
Mr. V. Chandrakumar \*<sup>4</sup>, Mr. K. Thamaraiselvan \*<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of CSE, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>5</sup> Student, Department of CSE, St.Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

The Pre-Food Booking Web Application is a smart solution designed to reduce food waste, manage crowd flow, and improve convenience in food ordering systems, especially in places like college canteens, corporate cafeterias, and event venues. Through this platform, users can pre-book their meals by selecting a suitable time slot and making an online payment in advance. The system ensures freshly prepared food, reserved exclusively for the user, and promotes timely pickup with an auto-cancellation mechanism.

## **SMART LIGHTNING ARRESTER WITH ENERGY HARVESTING AND EARLY WARNING SYSTEM FOR ENHANCED SAFETY IN FIREWORK INDUSTRY**

**Mr. J. Ramesh <sup>1</sup>, V. Adhirai <sup>2</sup>, A. Asraf Ali <sup>3</sup>, S. Jeganathan<sup>4</sup>, M. Vinoth<sup>4</sup>**

*<sup>1</sup> Assistant Professor, Department of EEE, St. Anne's CET,  
Anguchettyalayam, Panruti, India*

*<sup>2,3,4,5</sup> UG Student, Department of EEE, St. Anne's CET,  
Anguchettyalayam, Panruti, India*

### **Abstract**

This study presents a novel lightning protection and energy harvesting system tailored for fireworks facilities. Integrating an Early Streamer Emission (ESE) lightning arrester with a Slayer exciter, the system captures and regulates lightning energy, which is stored using supercapacitors and rechargeable batteries. Enhanced grounding techniques employing natural materials and real-time monitoring via Arduino Uno ensure system stability and safety. The solution not only mitigates lightning-induced hazards but also supports sustainable energy utilization in high-risk industrial environments.

# **SMART ENERGY HARVESTING SYSTEM USING EMI AND THERMAL ENERGY FROM TRANSMISSION LINES WITH IOT MONITORING**

**Dr. V. Yogambari<sup>1</sup>, A. Jegatheswari<sup>2</sup>, G. Elumalai<sup>3</sup>, B. Michael Aasic<sup>4</sup>, S. Sowmiya<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2,3,4,5</sup> UG Student, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India*

## **Abstract**

This project introduces a novel smart energy harvesting system that captures electromagnetic interference (EMI) and thermal energy from transmission lines, converting them into usable electrical power. It employs RF-to-DC converters and thermoelectric generators (TEGs) for energy capture, while DC-DC choppers regulate voltage for storage in supercapacitors and batteries. An Arduino microcontroller manages real-time monitoring, supported by an ESP8266 module for IoT-based remote data transmission. AI and machine learning algorithms predict energy output and optimize storage efficiency. This system offers a sustainable, data-driven solution for industrial environments, integrating renewable energy harvesting with intelligent energy management to enhance grid resilience and reduce power wastage.

## **OPTIMAL RECONFIGURATION OF DISTRIBUTION NETWORK CONSIDERING LOAD VARIATION USING CHAMELEON SWARM OPTIMIZATION ALGORITHM**

**Dr. K. Sriram<sup>1</sup>, A. Abitha<sup>2</sup>, T. Udhayalakshmi<sup>3</sup>, K. Praveen<sup>4</sup>, M. Manivasagan<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2,3,4,5</sup> UG Students, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

Efficient reconfiguration of power distribution networks plays a crucial role in enhancing reliability, minimizing losses, and improving overall system performance. This paper presents a novel approach for the optimal reconfiguration of distribution networks by considering dynamic load variations using the Chameleon Swarm Optimization (CSO) Algorithm. The proposed method leverages the adaptive nature of the CSO algorithm to intelligently search for optimal network configurations, ensuring minimized power losses and improved voltage profiles under varying load conditions. Comparative analyses with established optimization techniques demonstrate the superior performance of the CSO approach in achieving enhanced efficiency and stability. Simulation results validate the effectiveness of the proposed strategy, highlighting its potential application in modern power distribution systems.

## **DRIVING–CHARGING INTEGRATED CONTROLLER FOR ELECTRIC VEHICLES**

**Mr.V.Balaji <sup>1</sup>, Mr.S.Denis <sup>2</sup>, Mr.M.Dishan <sup>3</sup> Mr.M.Jana <sup>4</sup> Mr.A.Anbu <sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of EEE, St.Anne's CET, Anguchettyalayam, Panruti,  
India*

*<sup>2 3 4 5</sup> UG student, Department of EEE, St.Anne's CET, Anguchettyalayam, Panruti,India*

### **Abstract**

Motor driving technology and battery charging technology are the two core technologies of electric vehicles (EVs). They have a profound impact on the performance and mileage of EVs. Based on the topology of a traditional EV motor controller, this study employs the time-sharing multiplexing insulated gate bipolar transistor (IGBT) power module form to expand the functions of the motor controller. This paper proposes an integrated driving–charging controller structure that enables the controller to realize the motor driving and on-board charging simultaneously. A decoupling analysis was performed at the topology level, mathematical models of two bidirectional converters in the integrated topology were established, and a reasonable control strategy for the double-closed-loop control system was designed. The simulation system was built in Simulink, and the simulation results verified the effectiveness of the system topology control strategy. We made an integrated controller experimental platform based on TMS320F28335. A resistive load simulated the power battery to verify the charging mode, and a 5 kW permanent magnet synchronous motor (PMSM) was used to verify the driving mode. The experimental results demonstrated the driving–charging integrated controller's feasibility for electric vehicles.

## **SMART ENHANCEMENT OF ELECTRIC V2V COMMUNICATION SYSTEM USING IOT IN ITS**

**Mr. A. Sundarapandiyan <sup>\*1</sup>, Mr. B.L. Sivabalan <sup>2</sup>, Mr. S. Megharjun <sup>3</sup>,  
Mr. M. Umar Bin Hussain <sup>4</sup>**

*<sup>1</sup> Assistant Professor, Department of EEE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2</sup> UG Students, Department of EEE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> UG Students, Department of EEE, St.Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> UG Students, Department of EEE, St.Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

This project enhances electric Vehicle-to-Vehicle (V2V) communication using IoT within Intelligent Transportation Systems (ITS). It employs sensors like GPS, cameras, IR, and accelerometers to monitor vehicle status and surroundings in real time. A central controller processes the data and wirelessly transmits alerts to nearby vehicles via Wi-Fi. This setup improves road safety through collision avoidance, speed control, and obstacle detection. The system also optimizes traffic flow and energy usage using live data. It aims to support smart, connected, and sustainable mobility in urban environments.

## OPTIMAL ALLOCATION OF EV CHARGING STATIONS IN DISTRIBUTION NETWORKS

**Mrs. J. Arul Martinal\*<sup>1</sup>, Mr. S. Chithiraiselvan<sup>2</sup>, Mr. K. Sivaraj<sup>3</sup>, Mr. A. Agash<sup>4</sup>**

<sup>1</sup> Assistant Professor, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India

<sup>2</sup> UG Student, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India

<sup>3</sup> UG Student, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India

<sup>4</sup> UG Student, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India

### Abstract

The widespread spread of electric vehicles requires the establishment of charging stations (EVCSs), and this is considered a large load on the network. This gives priority to distributing the stations in a way that reduces the load on the network, and in parallel, re-planning the network and supplying it with the necessary energy to maintain energy efficiency and power quality. Total energy loss minimization, voltage deviation minimization, and voltage stability index improvement are the considered power quality indices in the multi-objective function. Vehicle to grid (V2G) feature, distributed generation units (DG), and capacitor banks are used for improving system performance, by injecting the required active and reactive power. In addition, the initial and running costs of V2G, DG units, and capacitor banks are considered in the multi-objective function. The optimal sizing and allocation of charging stations, V2G, DG units, and capacitor banks are performed using a proposed Self-Adaptive Multi-Population Elitist JAYA (SAMPE-JAYA) algorithm and checked using the genetic algorithm (GA). The proposed algorithm is tested using various scenarios, two standard IEEE test systems. To emphasize the effectiveness and applicability of the proposed algorithm, it is applied on a real-world distribution system. To accommodate the optimal allocation of EVCS, which constitute 80.7 % and 78.9 % of the base active load for the IEEE 33 and 69 bus systems, respectively.

## **OPTIMAL POWER FLOW OF POWER SYSTEM WITH LOCATION MARGINAL PRICE USING BROWN BEAR OPTIMISATION**

**Dr. K. Sriram <sup>\*1</sup>, Mr. S. Gananaraj<sup>2</sup>, Mr. P. Santhosh<sup>3</sup>, Mr. E. Elavarasan<sup>4</sup> Mr D  
Dhanush<sup>5</sup>**

<sup>1</sup> *Assistant Professor, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India*

<sup>2 3 4 5</sup> *UG Student, Department of EEE, St. Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

Consideration of transmission line capacity and the optimal power flow (OPF) determines the locational marginal price (LMP), which in turn determines the performance and profitability of a producing unit. Reducing the total cost of the generators can lead to a drop in the market price of electricity. It is recommended to use numerical and repetition based approaches for solving power flow equations due to their nonlinear nature. A novel optimizer named as brown-bear optimization algorithm (BOA) is introduced to solve economic dispatch problem (EDP) which is an important problem of optimal operation of power system.

## **GREY WOLF OPTIMIZATION ALGORITHM BASED ECONOMIC DISPATCH**

**Mr. J.Ramesh\*<sup>1</sup>, Dr . R Arokiadass<sup>2</sup>, Mr.S.Prem <sup>3</sup>, Mr.S.Premkumar <sup>4</sup>,  
Mr.S.Sureshkumar<sup>5</sup>, Mr.T.Vishnuchandhiran<sup>6</sup>**

<sup>1</sup> Assistant Professor, Department of EEE, St.Anne's CET, Anguchettyalayam, Panruti, India

<sup>2</sup> Professor, Department of Mechanical Engineer St.Anne's CET, Anguchettyalayam, Panruti, India

<sup>3,4,5 6</sup>UG Students, Department of EEE, St.Anne's CET, Anguchettyalayam, Panruti, India

### **Abstract**

Economic Load Dispatch is a problem of determining the output power of each generating unit of the power system such that the total fuel cost is minimum by considering all the system constraints like generation limits, valve point loading effects, etc. The problem of determining the outputs of the generating units at minimum cost is known as Optimal Power Flow (OPF) problem. The project is to obtain the feasible solution of optimal generation cost for the power system by using Whale Optimization Algorithm (WOA). WOA is most advanced and fastest method for optimization problem and can be implemented for any generated bus data in power system.

## **SOLAR ION PROPULSION HARNESSING ELECTRIC FIELDS FOR DEEP SPACE TRAVEL**

**Mrs. T. Arthi <sup>\*1</sup>, Mr. R. Praveen kumar <sup>2</sup>, Mr. S. Raguraman <sup>3</sup>, Mr. M.**

**Dhivagar**

*<sup>1</sup>Assistant Professor, Department of EEE, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2 3 4</sup>UG Students, Department of EEE, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

### **Abstract**

This project introduces a hybrid solar-powered ion propulsion system for deep space missions. It combines solar arrays, lithium-ion batteries, and RTGs for continuous energy supply. Ion thrusters accelerate charged particles to achieve high propellant efficiency. This allows faster interplanetary travel and supports heavier payloads. Future research will optimize thrust, power usage, and thermal control. The system is scalable and suited for missions like asteroid mining and outer planet exploration.

## **MULTI-OBJECTIVE PLANNING MODEL OF WIND SOLAR PV BATTERY STORAGE-BASED DERS IN SMART GRID DISTRIBUTION SYSTEM**

**Mr. S. Prabakaran<sup>1</sup>, V. Mohamed Irfan<sup>2</sup>, A. Balamurugan<sup>3</sup>, S. Sumanraj<sup>4</sup>, M.  
Praveen<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of EEE, St. Anne's CET,  
Anguchettyalayam, Panruti, India*

*<sup>2,3,4,5</sup> UG Student, Department of EEE, St. Anne's CET,  
Anguchettyalayam, Panruti, India*

### **Abstract**

The Bi-level Multi-Objective Planning Model of Solar PV-Battery Storage-Based DERS in Smart Grid Distribution System is a research paper that proposes a planning model for the implementation of distributed energy resources (DERs) in a smart grid distribution system. The model is designed to optimize the deployment of solar PV and battery storage systems in the grid, while taking into account various technical, economic, and environmental factors. The proposed planning model is based on a bi-level multi-objective optimization approach, which considers both the objectives of the utility and the objectives of the DER owners. The upper-level objective is to minimize the total cost of energy supply to the grid, while the lower-level objective is to maximize the revenue of the DER owners. The model is implemented using a genetic algorithm, which is used to search for the optimal solution. The model is also capable of considering the uncertainties associated with solar PV and battery storage systems, such as weather conditions and battery degradation. The results of the study show that the proposed planning model can effectively optimize the deployment of solar PV and battery storage systems in a smart grid distribution system. The model is also shown to be robust to various uncertainties associated with DERs, such as weather conditions and

## **AN INTEGRATED CHARGER OF WIRELESS POWER TRANSFER, ONBOARD CHARGER, AND AUXILIARY POWER MODULE FOR ELECTRIC VEHICLES**

**Mr. A. Sundarapandiyan<sup>1</sup>, K. Mohanraj<sup>2</sup>, V. Hariharan<sup>3</sup>, A. Akash,<sup>4</sup> D. Nijanth Kumar<sup>5</sup>**

*<sup>1</sup> Assistant Professor, Department of EEE, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2,3,4,5</sup> UG Student, Department of EEE, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

### **Abstract**

The rapidly developing electric vehicles (EVs) calls for improvement in the charging system for the high-voltage (HV) and low-voltage (LV) batteries in EVs. In the conventional EV charger, wireless power transfer (WPT), onboard charger (OBC), and auxiliary power module (APM) are three separate structures. This article proposes an integrated charger for WPT, OBC, and APM by sharing power conversion stages with the advantages of cost effectiveness and high-power density. The transformer of OBC can be seen as two strongly coupled coils, and the secondary-side coil can be loosely coupled with the transmitting coil of the WPT system, serving as a receiving coil. A transformer can be employed on the receiving side to integrate the APM with WPT. In this way, the receiving coil, the compensation network, and the power electronics converter can be shared. The integrated structure can work in three modes. In the first mode (wireless charging mode) and the second mode (conductive charging mode), the utility delivers power to the HV and LV batteries simultaneously. In the third mode (HV-LV mode), the LV battery is charged by the HV battery through APM.

## **THAWF SENSE: ARTIFICIAL INTELLIGENCE FOR POULTRY MANAGEMENT SYSTEM**

*A. Ashwin<sup>1</sup>, S. Sanjai<sup>2</sup>, A. Ragunath<sup>3</sup>, R. Suriya<sup>4</sup>, Mr. S. Balabasker<sup>5</sup>*

*<sup>1</sup>Student, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti, India*

*<sup>2</sup>Student, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti, India*

*<sup>3</sup>Student, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti, India*

*<sup>4</sup>Student, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti, India*

*<sup>5</sup>Assistant Professor, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti,  
India*

### **Abstract**

The poultry industry faces challenges in maintaining optimal environmental conditions and resource management, which directly affect animal productivity and well-being. Traditional monitoring methods are labour-intensive and prone to inefficiency. This article presents IoT-based poultry farming and automation systems to optimize environmental control and resource allocation. The system uses the Raspberry Pi Pico-W Microcontroller and integrates sensors into temperature, humidity, air quality, water level, supply level, and automatic control of heating, cooling, exhaust fan, water pump, and feeder. The real-time data is transferred to a Firebase database and visualized via a web dashboard. This allows remote monitoring and predicted temperature and humidity analysis. The system uses linear regression for environmental predictions to improve positive decision-making. Experimental results show improved environmental stability, reduced manual interventions, and improved resource efficiency targeting modern smart agricultural practices.

Keywords: IoT, Poultry Farming, Automation, Sensor Networks, Predictive Analytics, Firebase, Raspberry Pi Pico W, Environmental Monitoring, Smart Farming

## **SMART CROP PROTECTION AND ALERT SYSTEM FOR DETECTING WILD ANIMALS**

**V.Gopinath <sup>1</sup>, D.Inbaraj <sup>2</sup>, A. Sunrendhar<sup>3</sup>, Mr.R. Radhakrishnan<sup>4</sup>**

*<sup>1</sup>Student, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti, India*

*<sup>2</sup>Student, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti, India*

*<sup>3</sup>Student, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti, India*

*<sup>4</sup>Assistant Professor, Department of ECE, St. Anne's CET, Anguchettipalayam, Panruti,  
India*

### **Abstract**

In agricultural fields and residential areas, wild animal intrusions pose significant threats

Crops and property. The detection of these intrusions has traditionally relied on manual Observation, which is impractical and inefficient. To address this challenge, we propose a solution that utilizes the YOLOv8 algorithm for real-time detection of wild animals in agricultural fields and home environments. YOLOv8, known for its high accuracy and speed in object detection tasks, is applied to monitor areas, ensuring prompt identification of animals that could potentially cause damage. Our system not only detects the presence of wild animals but also classifies their type and tracks their movements in the monitored area. The system automatically triggers alert Messages, notifying the concerned parties through various communication channels. The integration of this intelligent surveillance system provides a proactive solution to safeguard crops from wild animal threats, ensuring better protection and minimizing potential damage.

## **AUTOMATED IRRIGATION SYSTEM FOR PADDY UTILIZING SENSORS**

**A. Archana<sup>1</sup>, A. Dhivya<sup>2</sup>, E. Prithisha<sup>3</sup>, J. Mohan<sup>4</sup> Mrs. B. Mary Amala Jenni<sup>5</sup>**

*<sup>1</sup> UG scholar, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2</sup> UG scholar, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> UG scholar, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> UG scholar, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>5</sup> Assistant Professor, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti,  
India*

### **Abstract**

The aim of our project is to develop a smart irrigation system specifically designed for paddy, flood irrigation crops using precision farming techniques. By incorporating advanced technologies, the system utilizing (water level sensor & Rain drop sensor) for accurately measuring the level of water in paddy field and rain drop sensor is used to find rainfall. The primary function of a raindrop sensor is to determine when it is raining and how much rainfall has occurred, helping automate systems like irrigation to avoid overflow in field. It is an innovative and efficient approach to make the specific water level need of paddy growth, it integrates and analyses sensors data to monitor the paddy water level and weather conditions. Automated irrigation controllers use real-time data to adjust water applications, it ensuring accurate distribution and reducing waste of water. The farmers can monitor/control the irrigation remotely through the mobile device. This innovative approach promotes sustainable agriculture, boosts crop growth, and conserves water resources.

## **AUTOMATED AND DECENTRALIZED CLOUD BASED WATER LEVEL AND QUALITY AUDIT SYSTEM USING IoT**

**Mr. B. Arun Kumar<sup>1</sup>, N. Viswanath<sup>2</sup>, P. Rajamohan<sup>3</sup>, U. Mangaleshwar<sup>4</sup>.**

<sup>1</sup> *Assistant professor, Department of ECE, St.Anne's CET, Anguchettypalayam, Panruti,  
India*

<sup>2</sup> *Student, Department of ECE, St.Anne's CET, Anguchettypalayam, Panruti, India*

<sup>3</sup> *Students, Department of ECE, St.Anne's CET, Anguchettypalayam, Panruti, India*

<sup>4</sup> *Student, Department of ECE, St.Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

This work proposes an IoT and Blockchain based, distributed system, for automated measuring and monitoring of water level and check the water quality in the rural area water tanks. The proposed water level audit system here is designed to be fully decentralized by using the Ethereum Block Chain to store and retrieve the data recorded by IoT sensors. Thus, data integrity is provided without the need for a Trusted Third Party (TTP) and data is collected and captured automatically without any manual operations needed. We use water level sensors and pH sensors to collect the real-time data for the audit. The system automatically monitors the water level and turn ON/OFF the water supply. If there is any change in pH value, Turbidity value, then the water supply will turn OFF automatically.

## **GPS TRACKING SYSTEM FOR GOVERNMENT BUS**

**Vaishali.S<sup>1</sup>, Deepika.K<sup>2</sup>, Anitha.R<sup>3</sup>, Mr. S. Durairaj<sup>4</sup>**

*<sup>1</sup> Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Assistant professor, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti,  
India*

### **Abstract**

Public transportation systems face challenges in providing real-time bus tracking, accurate passenger count, and seamless stop requests. This project proposes a Smart IOT-Based Bus Tracking and Passenger Management System using Arduino, GPS, and IOT to enhance commuter convenience and efficiency. A GPS module continuously tracks the bus location. Manually update the seat count. The system is connected to the IOT cloud, where passengers can access real-time bus location updates and availability status. Commuters can send a virtual stop request via a website, which is transmitted to the bus unit. The bus module consists of an Arduino Uno, ESP8266 (or another IOT module), and a display unit to show stop requests for the driver. When a request is received, the system calculates the nearest stop and alerts the driver. Additionally, it sends periodic updates on bus location, estimated arrival time, and passenger count to the cloud. This system improves transparency, efficiency, and accessibility in public transportation, reducing waiting times and enhancing passenger convenience. Future enhancements may include AI-based route optimization and predictive arrival time estimation based on traffic data. Smart IOT-Based Bus Tracking and Passenger Management System using Arduino, GPS, and IOT to enhance bus operations and passenger convenience. The GPS module continuously tracks the bus location.

## **IOT AND ML-BASED FIRE ACCIDENT PREVENTION SYSTEM FOR ELECTRIC VEHICLES USING SUPERCAPACITORS AND THERMOGEL COOLING**

**P. Mohana <sup>1</sup>, E. Abi <sup>2</sup>, V. Senthamizh Nila <sup>3</sup>, Mrs. A. Samadhana priya<sup>4</sup>**

<sup>1</sup> *Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

<sup>2</sup> *Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

<sup>3</sup> *Students, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

<sup>4</sup> *Assistant professor, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti,  
India*

### **Abstract**

This project presents an innovative safety system for electric vehicles (EVs) aimed at preventing battery fires caused by thermal runaway. The system leverages real-time monitoring through sensors that track critical battery parameters such as temperature, voltage, and current. When abnormal heating is detected, the system employs a machine learning model to predict potential fire hazards. In response to high temperatures, it switches the power source to supercapacitors, enabling the vehicle to reach a safe location. Simultaneously, it sends emergency alerts to users via a cloud-based IoT platform. If the battery continues to overheat beyond a critical threshold, an automated thermogel cooling mechanism is activated to suppress fire risks. This integrated approach enhances EV safety by combining IoT, AI, and advanced thermal management solutions, ensuring a proactive and cost-effective solution suitable for both personal and public EVs.

## **PUBLIC TOILET MAINTENANCE USING IOT**

**Duraimurugan. A<sup>1</sup>, Immanuel. T<sup>2</sup>, Karthikeyan. U<sup>3</sup>, Srihari. K<sup>4</sup>, Mrs. D.  
Umamaheshwari <sup>5</sup>**

<sup>1</sup> *Final year Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti,  
India*

<sup>2</sup> *Final year Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti,  
India*

<sup>3</sup> *Final year Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti,  
India*

<sup>4</sup> *Final year Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

<sup>5</sup> *Assistant Professor, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti,  
India*

### **Abstract**

Health Hub is a smart IoT-based healthcare and hygiene monitoring system designed to improve environmental cleanliness in public health facilities. Utilizing sensors such as the MQ-4 gas sensor for pollution detection and IR sensors for door activity, the system intelligently manages fan/light control and automates sanitation through a water cleaning module. Controlled by an Atmel microcontroller and connected to the cloud via NodeMCU, it enables real-time monitoring and remote alerts to municipal authorities. Key features include a mini servo motor for automated door operation and a mini water pump for cleaning purposes, making it a complete solution for maintaining hygiene in critical public spaces. This reduces maintenance costs, optimizes resource consumption, and enhances sanitation standards through real-time monitoring and predictive maintenance, providing a cost-effective and scalable solution for public restrooms.

# SMART VEGETABLE PRICE MONITORING: DATA COLLECTION, ANALYSIS, VISUALIZATION AND INSIGHTS FOR FARMERS

**P Sathishkumar<sup>1</sup>, S Selvakumar<sup>2</sup>, P Balaguru<sup>3</sup> Mr. V Venkatesan<sup>4</sup>**

*<sup>1</sup> final year student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India,*

*<sup>2</sup> final year student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> final year student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Assistant Professor, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

## **Abstract**

This paper presents a smart vegetable price monitoring system designed to support local farmers by providing real-time data collection, price trend analysis, visual insights, and demand-based suggestions. By leveraging data analytics and visualization tools, the system enables farmers to understand market dynamics, forecast future prices, and make better selling decisions. This project bridges the information gap in agricultural pricing and contributes to smarter, data-driven farming practices.

# EMERGENCY ALERT SYSTEM

**A. Archana<sup>1</sup>, S. Subashini<sup>2</sup>, V. Jeevitha<sup>3</sup>, S. Srimathi<sup>4</sup>, Mrs.B. Mary Amala Jenni<sup>5</sup>**

*<sup>1</sup> Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>2</sup> Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>3</sup> Students, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>4</sup> Student, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

*<sup>5</sup> Assistant Professor, Department of ECE, St. Anne's CET, Anguchettypalayam, Panruti, India*

## **Abstract**

Emergency alarms are critical safety systems designed to alert individuals to potential dangers such as fires, natural disasters, intrusions, or hazardous material leaks. These systems use audible, visual, or digital signals to prompt immediate evacuation, protective action, or response. Advanced emergency alarms often integrate sensors, control panels, and communication networks to detect threats automatically and relay real-time information to emergency responders. Their effectiveness depends on timely activation, reliability, and user awareness. As technology evolves, modern alarm systems increasingly incorporate smart features, such as remote monitoring and AI-based threat detection, enhancing public safety across various environments.

## **PROSPECT OF MORINGA SEED OIL AS A SUSTAINABLE BIODIESEL FUEL IN INDIA**

**R.Sasikumar<sup>1</sup>, D.Kamalakannan<sup>2</sup>, G.Premkumar<sup>3</sup>, Ahamed ashif S<sup>4</sup>, Hariharan S<sup>5</sup>**

*<sup>1,2</sup>Assistant Professor, <sup>3,4,5</sup>UG Student, Department of Mechanical Engineering,  
St. Anne's College of Engineering and Technology, Panruti.*

### **Abstract**

Drumstick is one of the most widely cultivated crops in tropical and sub-tropical areas in the world. The common name is drumstick which contains 6 to 10 seeds. The matured seeds yield 38 - 40% of colorless and odorless vegetable oil. The oil contains concentrated oleic acid which has the potential to be used as a biodiesel. The study reviewed the prospect of Drumstick seed oil as a source of alternative transport fuel in India. The distributions, habitat, growth, production, oil extraction and biodiesel conversion techniques are briefly discussed. The literatures available on engine performance test and emission studies are also summarized for better understanding of the prospect of the Drumstick as a sustainable and alternative source of transport fuel. A review of the literatures indicates that Drumstick oil could be one of the prospective sources of biodiesel in India. Further studies are recommended on issues such as engine combustion characteristics, emission parameters, environmental impact and economic analysis of the species before it can be considered for commercial application.

## PRINCIPLE STUDIES ON NANOSTRUCTURES

*D. Kamalakanna<sup>1</sup>, T.Elangovan<sup>2</sup> K. Shanmuga Elango<sup>3</sup>, T.Harikrishnakumar<sup>4</sup> and V. Chandru<sup>5</sup>*

*<sup>1,2,3</sup>Assistant Professor, <sup>3,4</sup>UG Student, Department of Mechanical Engineering,  
St. Anne's College of Engineering and Technology, Panruti-607106, India.*

*E-mail: [kamalmec85@gmail.com](mailto:kamalmec85@gmail.com)*

### **Abstract**

Nanostructures open new possibilities to mold the mechanical, chemical, magnetic and electronic properties of materials and, at present, there is strong demand for basic understanding of nanostructures. Nano objects are different from both atoms and bulk materials, thereby providing an interface between physics, chemistry, material sciences, engineering and biology. For example, the length scale of typical nanostructures allows a direct use in many systems, including the human body. Clusters containing a few atoms have been investigated for many decades, both theoretically and experimentally. The electronic structure of atomic clusters was traditionally treated by real-space methods based on various approaches from tight-binding (TB) to density-functional methods. The methods of calculations of electronic structure of bulk materials use periodic boundary condition and k-space representation. Nanostructures include 100–100000 atoms and do not exhibit periodicity, so that their first-principle study is a very challenging problem. Direct atomistic treatment of real nanodevices is very difficult due to the large number of atoms. The free-electron model, tight binding approaches and order density functional approach have all been applied to the Nanoscale geometries to study their electronic properties. The choice of an approach depends on the degree of compromise between numerical and conceptual tractability on the one hand and quantitative accuracy on the other.

## NUMERICAL MODELING OF MICROMECHANICAL FINITE ELEMENT ANALYSIS OF RUBBER-CNT COMPOSITES

***D.Kamalakannan<sup>1</sup>, K. Shanmuga Elango<sup>2</sup>, R.Arokiadass<sup>3</sup>, S. Akash<sup>4</sup> and A. Abishek<sup>5</sup>***

*<sup>1,2</sup>Assistant Professo, Prof <sup>3</sup>, <sup>4,5</sup>UG Student , Department of Mechanical Engineering,  
St. Anne's College of Engineering and Technology, Panruti-607106, India.*

*E-mail: [shanmugaelango1974@gmail.com](mailto:shanmugaelango1974@gmail.com)*

### **Abstract**

This study explores the multiscale modeling and mechanical characterization of synthetic rubber and its nanocomposites reinforced with single-walled carbon nanotubes (SWCNTs). Uniaxial tensile tests on ASTM D-412C specimens provided Mooney–Rivlin constants, validated via nonlinear FEA in ANSYS. A micromechanical RVE approach integrated SWCNTs with a hyperelastic rubber matrix, modeling interfaces using variable-stiffness spring elements. The SWCNTs, defined as nonlinear beams, exhibited a Young's modulus of 936 GPa. Simulation results revealed enhanced stiffness and toughness in the nanocomposites, with stress–strain behavior aligning with the rule of mixtures under ideal bonding. This work provides a robust framework for analyzing advanced rubber nanocomposites in engineering applications.

Keywords—SWCNTs; Micromechanical; RVE, FE-Analysis; rubber nanocomposites.

## **FE ANALYSIS OF THIN LAMINATED COMPOSITE PLATE WITH CUTOUT UNDER AXIAL COMPRESSION**

***D. Kamalakannan<sup>1</sup>, K. Shanmuga Elango<sup>2</sup>, R. Sasikumar<sup>3</sup>, P. Manibharathi<sup>4</sup> and S.  
Mohamed Ismail<sup>4</sup>***

*<sup>1,2,3</sup>Assistant Professor, <sup>4,5</sup>UG Student, Department of Mechanical Engineering,  
St. Anne's College of Engineering and Technology, Panruti-607106, India.*

*E-mail: [kamalmec85@gmail.com](mailto:kamalmec85@gmail.com)*

### **Abstract**

Fiber-reinforced laminated composite plates with cutouts are widely used in engineering applications for weight reduction and functionality, yet they are prone to buckling under axial compression. This study analyzes the buckling behavior of thin laminated FRP plates with central circular cutouts using linear eigenvalue buckling analysis via the finite element method in ANSYS, employing Shell181 elements. The model is validated against benchmark literature and shows strong agreement in critical load and mode shapes. A comprehensive parametric study examines the effects of boundary conditions, lay-up configuration and orientation, plate aspect ratio, and cutout size. Results indicate that clamped boundaries and anti-symmetric lay-ups enhance buckling resistance, while larger cutouts diminish it. The study provides insights for optimizing the structural design of composite plates to improve stability under compressive loads.

Key words: Laminated composite plates, FRP, Buckling and Axial Compression

## **MACHINABILITY STUDIES ON STAINLESS STEEL (SS304) UNDER NEGATIVE POLARITY OF ELECTRICAL DISCHARGE MACHINING PROCESS**

*T.Elangovan<sup>1</sup>, M.Kaviprasath<sup>2</sup>, T.Dhivakar<sup>3</sup>, T.Vishnuiraj<sup>4</sup>*

*<sup>1</sup>Assistant Professor, <sup>2,3,4</sup>UG Student, Department of Mechanical Engineering,  
St. Anne's College of Engineering and Technology, Panruti-607106, India.*

### **Abstract**

To improve machining qualities of the surface, non-traditional machining processes have been widely applied in diverse of application. Normally, the NTM processes are removed unwanted materials with aid of various energies such as mechanical, thermal, chemical and electrode chemical etc. At present scenario, electrical discharge machining (EDM) is extensively used to machine the hard material with application of electro chemical energy. Hence, in this investigation, the AISI 304 stainless steel is machined with help of copper electrode using EDM. Different machining parameters such as current, pulse on time and pulse off time are controlled to achieve better machining characteristics. The series of experiments is planned using central composite design of response surface methodology. The machining characteristics such as materials removal rate (MRR) and surface roughness (SR) are considered. Effect of machining parameters on MRR and SR are studied through surface plot constructed by RSM. Analysis of variance (ANOVA) is carried out to identify the dominating factors that affecting the MRR and SR. The regression values of MRR and SR are 96.89% and 97.56% respectively indicating an empirical relationship between the parameters and responses. F values of lack of fit for MRR and SR were 3.14 and 2.89 which are smaller than the standard values. Hence, both model MMR and SR were adequate. Current was found as a significant parameter on the response followed by pulse on time and pulse off time. It was observed that MRR and SR increased with increasing of current and pulse on time regardless

of pulse off time. Increased current and pulse on time generated strengthened ionization temperature that removed more quantity of materials from the workpiece. Due to ionization temperature, more craters and voids are formed that made surface irregular and hard. Hence, SR increased. At lower current and pulse on time, mild cracks and globules are formed due to its insufficient spark intensity.

Keywords: EDM, MRR, SR, RSM, ANOVA.

## **AUTOMATED EFFECTIVE SOLAR TRACKING SYSTEM**

***Panjamoorthy S<sup>1</sup>, Rajesh A<sup>2</sup>, Kaviarasan K<sup>3</sup>, Adhavan R<sup>4</sup>, Ommurugadhasan D<sup>5</sup>***

*<sup>1,2,3,4</sup> UG Student, Department of Mechanical, St.Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>5</sup> Professor, Department of Mechanical, St.Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

By ensuring that solar panels are always facing the sun, the automated Effective solar tracking system project seeks to improve solar panel efficiency. An automated solar tracking system can optimize the efficiency and output of solar panels by keeping them in continuous alignment with the sun's location throughout the day. By tracking the sun's trajectory across the sky, this technique enables solar panels to capture more of the sun's energy and produce more power. In order to maximize solar panel performance and more efficiently capture clean, renewable energy from the sun, the project integrates hardware and software components. It helps create a brighter future and is a step toward sustainable energy solutions.

Keywords: solar energy, power generation, solar tracking system, and use of renewable energy sources.

## **PERFORMANCE EVALUATION OF BIOMASS DRYER FOR DRYING AMLA**

**P.Murugan<sup>1</sup>, S.Dhanushkodi<sup>2</sup>Muthazhagan<sup>2</sup>**

*<sup>1</sup>Asst Prof, Mechanical, St.Anne's College of Engineering and Technology ,Panruti-  
Cuddalore,Tamilnadu, India*

*<sup>2</sup>Professor, Mechanical, RIST University, Vallam, Thanjavur – 613403, Tamilnadu, India*

*<sup>3</sup>UG Student, Mechanical, St.Anne's College of Engineering and Technology ,Panruti-  
Cuddalore,Tamilnadu, India*

### **Abstract**

The effective use of heat energy is the primary determinant of the drying process' quality. Due to its low running costs, solar drying has become a significant method for drying agricultural products. However, their utility is restricted when the sun isn't shining. Due to its ability to dry materials both during the day and at night, a biomass drier is among the most straightforward drying methods. This experimental study outlines the design and fabrication of a biomass dryer with a waste heat recovery unit suitable for the small-scale Amla drying. The setup incorporates a biomass heater for generating hot air, a waste heat recovery unit, a blower for air circulation, and a drying chamber to accommodate the products for drying. The various performance parameters of the biomass dryer, including overall system efficiency, were calculated based on the drying process involving 55 kg of Amla per batch. The dryer demonstrates the capability to consistently produce hot air within the temperature range of 70 to 75°C. Performance analysis revealed a notable reduction in moisture content from 87.1% to 4.5% within a 7-hour timeframe for biomass drying, compared to nearly 12 hours required for open sun drying, whereas it takes 9 hours in waste heat recovery dryer. By utilising the contributing factor to an appropriate overall system efficiency of 14.82%, it is possible to maintain a consistent

# **EFFECT OF PROCESS PARAMETERS ON DEPOSITION RATE AND SURFACE ROUGHNESS OF ELECTRO DISCHARGE COATING ON AA7075 ALUMINIUM ALLOY**

*K. Shanmuga Elango<sup>1</sup>, R.Arokiadass<sup>2</sup>, P. Bharath<sup>3</sup>, D.Velpandiyan<sup>4</sup> and R.Vishwa<sup>5</sup>*

*<sup>1</sup>Assistant Professor, Prof <sup>2, 3, 4, 5</sup>UG Student, Department of Mechanical Engineering,  
St. Anne's College of Engineering and Technology, Panruti-607106, India.*

*E-mail: [shanmugaelango1974@gmail.com](mailto:shanmugaelango1974@gmail.com)*

## **Abstract**

Nowadays, surface modification techniques are a big part of making metals and alloys better on the outside. Even though various metals and alloys are coated using surface modification techniques, improving the surface properties of the light alloys is difficult. To improve the surface properties of light alloys, electro-thermal techniques, namely electro discharge Coating (EDC), are suitable. Hence, in this investigation, a tungsten disulfide (WS<sub>2</sub>) copper (Cu) composite coating was developed on AA7075 using electro discharge deposition. The WS<sub>2</sub> Cu composite electrodes were manufactured by the powder metallurgy method. The effects of discharge current, pulse on time, and pulse off time on deposition rate (DR) and surface roughness (SR) have been studied. Tests were carried out according to the design matrix generated by central composite design in response surface methodology (RSM). An ANOVA was performed to determine the optimum parametric conditions for the responses. Pulse off time was the dominating parameter followed by discharge current and pulse on time for attaining the best response. Higher values of current, pulse on time, and pulse off time led to higher DR and SR values. Higher discharge current produced sufficient spark strength that melted both the tool electrode and the workpiece. The lower setting of parameters offered smooth roughness due to the even spark distribution. At a current of 4 A, bigger craters were

# **A CRITICAL REVIEW OF TECHNOLOGY READINESS LEVELS AND COMMERCIALIZATION PATHWAYS OF CCUS SYSTEMS FOR SUSTAINABLE CLIMATE MITIGATION**

*N. Muthazhagan<sup>1</sup>, Sr. A. Josephine Mary<sup>2</sup> and D. Kamalakannan<sup>3</sup>*

*<sup>1</sup>UG Student, <sup>2,3</sup>Assistant Professor, Department of Mechanical Engineering,  
St. Anne's College of Engineering & Technology, Panruti-607106, India.*

*Corresponding Authors E-mail: [muthunarayanan08@gmail.com](mailto:muthunarayanan08@gmail.com) & [kamalmec85@gmail.com](mailto:kamalmeec85@gmail.com)*

## **Abstract**

The rapid expansion of the energy and industrial sectors has significantly increased stationary CO<sub>2</sub> emissions, intensifying concerns about global warming and the urgent need to achieve climate mitigation goals by 2050. In this context, this paper presents a concise review of the current state of carbon capture, utilization, and storage (CCUS) technologies through a general technical assessment. Particular focus is given to identifying the technology readiness level (TRL) of each key component within the CCUS system, providing insights into their maturity and commercialization pathways. The study also emphasizes the various CO<sub>2</sub> capture types from flue gases and the separation methods employed. Additionally, valuable data from major R&D projects at different scales are analyzed to highlight progress and gaps. This critical review identifies the challenges hindering the advancement of low-TRL technologies and outlines strategies to facilitate their transition to commercial application. Ultimately, the paper aims to support the global scaling and implementation of effective CO<sub>2</sub> emission reduction initiatives.

## **EXAMINE THE MECHANICAL PROPERTIES AND IMMERSION CORROSION BEHAVIOR OF ALUMINUM 8011 HYBRID NANO COMPOSITES**

**K. Saravanan <sup>\*1</sup>, R. Desigan <sup>2</sup>, M. Ignocrossly <sup>3</sup>, M. Kathiravan <sup>4</sup>**

*<sup>1</sup> Assistant Professor, Department of MECH, St. Anne's CET,  
Anguchettypalayam, Panruti, India*

*<sup>2,3,4</sup> Student, Department of MECH, St. Anne's CET, Anguchettypalayam, Panruti, India*

### **Abstract**

The Study focuses on analyzing the mechanical properties of Al-8011 hybrid nanocomposites with Scandium (Sc) and Zinc Oxide (ZnO). The Composite material has been prepared by Stir Ultrasonic Assisted casting technique. Al-8011 as matrix, Scandium (Sc) rare earth as a alloying element Zinc Oxide (ZnO) As reinforcements. Scandium and Zinc Oxide both have been mixed in different proportions in the Aluminum matrix. Both reinforcement constituents were added in different combinations. Al-8011 was extensively applied in aircraft engine and wings. For further enhancement of properties for increasing its applicability.

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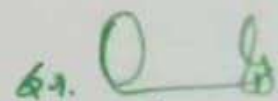
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**(NCETEST'25)**

organized by

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**on 30<sup>th</sup> April. 2025.**

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