



# KONGU ENGINEERING COLLEGE

## CAMPUS R&D NEWS



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### PH.D VIVA-VOCE COMPLETED

1. Mr.K.Kavinkumar, Research Scholar, Department of Electronics and Communication Engineering defended his thesis entitled “Certain investigations on the performance analysis of MRI brain tumour classification using machine learning and deep learning models” on 22.03.2024 under the guidance of Dr.T.Meeradevi / ECE.
2. Ms.K.Chitra, Research Scholar, Department of Computer Applications defended her thesis entitled “Community detection in social networks using machine learning and heuristics approaches” on 28.03.2024 under the guidance of Dr.A.Tamilarasi / MCA.
3. Mr.S.Palpandi, Research Scholar, Department of Electronics and Communication Engineering defended her thesis entitled “Certain investigations on skin cancer detection using machine learning and deep learning models” on 22.03.2024 under the guidance of Dr.T.Meeradevi / ECE.

### R&D PROJECTS SACTIONED (2023-2024)

1. Dr.S.Anandakumar/Civil, received research grant of Rs.3,00,000/- for the project entitled “Development of track maintenance model for metro rail system” under TNSCST-RFRS scheme on 27.04.2023, File No.TNSCST/RFRS/E&T/VR/05/2020-21.
2. Dr.N.Muralidharan/MTS, Dr.S.K.Thangarasu/MTS, Dr.A.Shanmugam/MTS received research grant of Rs.18,19,000/- for the project entitled “Machinability and surface integrity investigation in CNC-wire cut electrical discharge turning (WEDT)” under CSIR-R&D scheme on 14.07.2023, File No. 22/0871/23/EMR-II.
3. Dr.M.Mohanasundari/MBA, Dr.P.Vidhya Priya/MBA, Dr.P.Sudharesalingam/MBA, Ms.M.Dharshne/MBA received research grant of Rs.8,06,250/- for the project entitled "Entrepreneurial Ecosystem-The Effectiveness of Stand-up India in promoting women and SC/ST owned Business in Tamil Nadu" under ICSSR–Collaborative Research Grant Scheme on 29.09.2023, F.No.226/CRP-2023-2122/SUI/SCD.
4. Dr.S.Padmavathy/MBA, Dr.S.Maheswari/EEE, Dr.M.Sivachitra/EEE, Mr.S.K.Logesh /EEE received research grant of Rs.6,45,000/- for the project entitled "An Empirical

Study on Jan Aushadhi Yojanas Reach and Socio-Economic Impact in selected areas of Tamilnadu" under ICSSR – Collaborative Research Grant Scheme on 03.10.2023, F.No.188/CRP-2023-2120/AB/SCD.

5. Dr.T.Logeswaran/EEE, Dr.A.Sheela/EEE, Dr.V.Krishnamoorthy/MBA received research grant of Rs.8,83,000/- for the project entitled "Environmental impacts of FASTAG adoption: A comprehensive analysis of fuel conservation and carbon emission reduction at toll plazas in India" under ICSSR Minor Research Project Scheme on 22.12.2023, F.No. ICSSR/RPD/MN/2023-24/OBC/43.
6. Dr.A.Tamilvanan/Mechanical received research grant of Rs.18,30,000/- for the project entitled "Investigation on the feasibility of human faces biogas as a secondary fuel for biodiesel fuelled diesel engine under the RCCI strategy" under SERB-TARE Scheme on 09.01.2024, F.No. TAR/2023/000388.
7. Dr.K.Nirmaladevi/CSE, Dr.Vani Rajasekar/CSE, Dr.S.Shanthi/CSE received research grant of Rs.8,64,000/- for the project entitled "Development of AI-enabled deep learning models for cyberbullying detection in online social media and its impact on the quality of life among students" under ICSSR Minor Research Project Scheme on 02.02.2024, F.No. ICSSR/RPD/MN/2023-24/OBC/80.

### REFERRED JOURNAL PUBLICATIONS

1. Karthikeyan, S., and Ramgughan, B., (2024). Experimental investigation of effect of waste PET fibres on the impact behaviour of PET fibre reinforced concrete. *Global Nest Journal*, Vol.26(3), pp.1-5.
2. Raghava Rao, N., Sree Pokkuluri Kiran., Tamboli Amena, I., Senthilkumar, A., Sivakumar, R., Ashok Kumar, M., and Sampathkumar, V., (2024). Enhancing rainwater harvesting and groundwater recharge efficiency with multi-dimensional LSTM and clonal selection algorithm. *Groundwater for Sustainable Development*, Vol.25, p.101167.
3. Eswaramoorthi, P., Suthaviji, S., Manoj, S., Jothi Lakshmi, N., and Sampathkumar, V., (2024). Combustion Analysis of Solid Biomass Derived from Turmeric and Onion, using Nanoclay as a Binding Material, for a Sustainable Environment. *Journal of Environmental Nanotechnology*, Vol.13(1), pp.26-31.
4. Anandaraj, S., Sakthi Sowmya, S., Krishnaraja, A.R., and Mithun, T., (2024). Development of Green Engineered Cementitious Composite using Fly Ash and Nanosilica for 3D Printing. *Journal of Environmental Nanotechnology*, Vol.13(1), pp.117-124.

5. Vinodhkumar Shanmugasundaram., Aravind Eswaran Arulraj Pandiyan., and Shreeramsundhar Ramakrishnan., (2024). Utilization of waste face masks to reinforce magnesite mine tailings for sustainable subgrade construction. *Journal of Engineering and Applied Science*, Vol.71, Article Number 72.
6. Vinodhkumar Shanmugasundaram., Balaji Shanmugam., Ponnusamy Kulanthavel., and Mukesh Thottipalayam Shakthivel., (2024). A reliability-based mechanical-empirical design method for flexible pavements containing cement-treated magnesite mine tailings as subgrade. *Journal of Engineering and Applied Science*, Vol.71, Article Number 64.
7. Jagadeeswari, R., Rathika, G., Satheeshkumar, K.V., and Selvakumar, P., (2024). Surface parametric influences on the photocatalytic behaviour of zinc oxide nanoparticles. *Journal of Ovonic Research*, Vol.20(1), pp.115-124.
8. Mohankumar, A., Rathanasamy, R., Rathinasamy, P., Muthusamy, S., Siddiqui, M.I.H., Giri, J., and Shah, M.A. (2024). Investigation of viscoelastic behavior of Abaca-reinforced epoxy composites. *AIP Advances*, Vol.14(3).
9. Kuppusamy, M., Abdullah, S.K., Gowindasamy, M., Padmavathy, P., Loganathan, K., and Saravanan, A., (2023). Design and Implementation of Automated Inspection System for Manufacturing Machinery Based on Internet of Things. *Second International Conference on Smart Technologies for Smart Nation (SmartTechCon)*, pp.1323-1328, IEEE.
10. Sivashankar, G., Prasad, S.K., Saravanan, A., Ghamande, M.V., Aravind, A.R., and Sharma, M., (2023). Influence of Unbalance on Tyre Pressure Monitoring System Based on C-GRU Approach. *7<sup>th</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, pp.565-570, IEEE.
11. Subramaniam, S., Naveenkumar, R., Ganesan, A., Rajavel, N., Chenniappan, M., Stonier, A.A., and Basak, A.K., (2024). Impact of cotton dust, endotoxin exposure, and other occupational health risk due to indoor pollutants on textile industry workers in low and middle-income countries. *Journal of Air Pollution and Health*, Vol.9(1), pp.75-96.
12. Bommy, M., Bhargavi, V.S., Banu, A.H., Makesh Kumar, M., and Reddy, R.V.K., (2023). Prediction of Agricultural Surplus Labor Transfer Trend Based on Big Data Fuzzy Clustering Algorithm. *Second International Conference on Smart Technologies for Smart Nation (SmartTechCon)*, pp.570-574, IEEE.
13. Thangavel, S., Maheswari, C., Priyanka, E.B., Stonier, A.A., Peter, G., and Ganji, V., (2024). Analysis and optimization of the automated TIG welding process parameters on SS304 incorporating Taguchi optimization technique. *The Journal of Engineering*, Vol.2024(3), p.e12373.
14. Priyanka, E.B., Thangavel, S., Kuricil, V.S., Hameed, A.T.A. and Gamaliel, L.S., (2024). Low-Cost Power Generating and Discharge Brick. *ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETISIS)*, pp.1953-1957, IEEE.
15. Priyanka, E.B., Thangavel, S., Thirunavukarasu, S., Hameed, A.T.A., Kumar, P.R., and Sivasankar, J., (2024). Online Gui Based Frequency Response Analysis of First Order BLDC Motor. *ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETISIS)*, pp.1713-1719, IEEE.
16. Nancharaiiah, B., Sakthivel, B., Kumar, A.A., Kalpana, P.E., Venu, N., and Anbu, C., (2023). Analysis of Visual Expression of Light and Color in Movies Based on Wavelet Neural Network. *Second International Conference on Smart Technologies for Smart Nation (SmartTechCon)*, pp.245-249, IEEE.
17. Udhayakumar, M., Hamad, A.A., Jeyasimman, D., Reddy, G.N. and Anbu, C., (2023). Research on Quality Control of Core Process of Hydraulic Engineering Materials Based on Improved Particle Swarm Optimization. *Second International Conference on Smart Technologies for Smart Nation (SmartTechCon)*, pp.383-388, IEEE.
18. Sangeetha, M., Ravichandran, P., Kaliappan, S., Diana, I.E., Raja, S., and Sagar, B.S., (2023). Particle Swarm Algorithm-Based Integrated Tax and Finance Control Platform Construction. *Second International Conference on Smart Technologies for Smart Nation (SmartTechCon)*, pp.205-209, IEEE.
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20. Suresh, M., Srinivasan, M., Sarathi, R., and Raymon, A., (2024). Development of Neem Oil Ester Modified with Reduced Graphene Oxide and TiO<sub>2</sub> for Distribution Transformers. *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol.31(2), pp.937-946.

21. Suresh Muthusamy., Sarathkumar Duraisamy., Meenakumari Ramachandran., Jamunadevi Karthikeyan., James Israel David., Harish Kumar Settu., and Ajith Rathinasamy., (2024). A Novel Method for Design and Development of Hybrid Land and Water Buoyancy Trash Collecting Robot. *International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE)*, Vol.2024, pp.1-5.
22. Kamalesh, M.S., Palanivel, S., Senthilnathan, N., Yogananth, P., and Sarath, J., (2024). Machine Learning Approach for Mode Selection and Control of Multiport DC-DC Converters In PV-Battery Applications. *3<sup>rd</sup> International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET)*, pp.1-6, IEEE.
23. Loganathan, N., Selvanayakam, M., Anbarasu, P., and Logeswaran, T., (2024). IoT based energy meter monitoring system for sustainable development. *Journal of Environmental Protection and Ecology*, Vol.25(1), pp.182-191.
24. Chandrika, V.S., Kumar, N.M.G., Kamesh, V.V., Shobanadevi, A., Maheswari, V., Sekar, K., Logeswaran, T., and Rajaram, A., (2024). Advanced LSTM-Based Time Series Forecasting for Enhanced Energy Consumption Management in Electric Power Systems. *International Journal of Renewable Energy Research (IJRER)*, Vol.14(1), pp.127-139.
25. Kamalesh, M.S., Bharatiraja, C., Cherukupalli, K., Sanal Kumar, S., and Chandrasekar, S., (2024). Coupled Inductor Based SIDO-Buck Converter with Self-Adaptive Digital PWM Control for 12V/24V On-Board Lighting and Dashboard System for 48V-EV. *IEEE International Transportation Electrification Conference (ITEC-India)*, pp.1-6.
26. Kamalesh, M.S., Sanal Kumar, S., Saravana Ilango, G., Sabarimuthu, M., Santhosh, V.G., and Siddharth Akilesh, B., (2024). A Machine Learning Approach for Mitigating Cross-Regulation in SIDO Buck Converter. *3<sup>rd</sup> International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET)*, pp.1-6, IEEE.
27. Mahesh, N., Jagan Babu, J., Nithya, K., and Arunmozhi, S.A., (2024). Water quality prediction using LSTM with combined normalizer for efficient water management. *Desalination and Water Treatment*, Vol.317, p.100183.
28. Mahesh, N., Prabhu, K., Sozhaventhana, A., Sreekanth, S., and Vishnupriya, M., (2024). A Novel Technique for Implementation of Threaded Rod Based System for Sunflower Seed Extraction. *2<sup>nd</sup> International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)*, pp.1589-1594.
29. Vidhyalakshmi, P., Sasireka, M., Barathkumaran, K.S., Anuritha, K.V., and Harisankar, K., (2024). PLC Based Automatic Paper Cutting Machine. *International Conference on Energy, Materials and Communication Engineering (ICEMCE)*.
30. Mouleeshwarappabu, R., Mrunalini, T., Surya, K., Sathanandhan, K., Sri Priyangka, S.P., and Chinnasamy, R., (2024). Design and Development of Biogas Purifier. *International Conference on Energy, Materials and Communication Engineering (ICEMCE)*, pp.1-5.
31. Premendra, J., Bansod, R., Usharani, A., Sheryl Oliver., Suji Prasad, S.J., Durgesh, M. Sharma., and Sureshkumar Myilsamy., (2024). Quantum Computing-Powered Agricultural Transformation: Optimizing Performance in Farming. *GI Global Journal*, pp.357.
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33. Prabhu, K., Mahesh, N., Keshav Muthu, P., Karthikeyan, G., and Abarna Bhuvaneshwari, C., (2024). Enhanced Color Blending System for Dyeing Industry using PIC Microcontroller. *2<sup>nd</sup> International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)*.
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35. Kalavathidevi, T., Mouleeshwarappabu, R., Umadevi, S., Shubhashree, V.K., Srihariramana, K., and Thilochan, T.G., (2024). Design of Mini Spiral Turbine for Optimum Power Generation in Water Supply. *International Conference on Energy, Materials and Communication Engineering (ICEMCE)*, pp.1-6.
36. Thamizharasan, V., and Kasthuri, N., (2023). Design of Proficient Two Operand Adder using Hybrid Carry Select Adder with FPGA Implementation. *IETE Journal of Research*, Vol.69(12), pp.9152-9165.
37. Sundar, R., Ziaul Haque Choudhury., Chiranjivi, M., Gayatri Parasa., Praseeda Ravuri., Sivaram, M., Balambigai Subramanian., and Kireet Muppavaram., (2024). Future directions of artificial intelligence integration: Managing strategies and opportunities. *Journal of Intelligent & Fuzzy Systems*, Vol.46(30), pp.7109-7122.



38. Muthulakshmi, K., Prakash Balaji, S., Stephe, S., and Vijayalakshmi, J., (2024). Adaptive Wind Driven Optimization based Energy Aware Clustering Scheme for Wireless Sensor Networks. *Technical gazette*, Vol.31(2), pp.466-473.
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40. Ravindaran, Ramyea., Kasthuri, N., Senthil Kumar Kandasamy., Adhithya, B., Gunaranjan, S.P., and Karthik Kumar., (2024). Performance Analysis of a Polymer Based Antenna for Cognitive Radio Applications. *Innovations in Power and Advanced Computing Technologies (i-PACT)*, pp.1-6, IEEE.
41. Ramyea, R., Kasthuri, N., Kandasamy Senthil Kumar., Kavivarman, J., Keerthana, K., and Keerthana, R., (2024). Predictive analysis of pulmonary fibrosis progression using gradient boosting classifier and DICOM images. *AIP Conference Proceedings*, Vol.2966(1), p.030007.
42. Ruba, M., Girinath, V.P., Ponkarthika, M., Santhini, C., and Hemalatha, R., (2024). Design and Implementation of Smart Internet-Based Real-Time Control of Rover with Artificial Intelligence. *International Conference on Energy, Materials and Communication Engineering (ICEMCE)*, pp.1-5, IEEE.
43. Kumaravel, T., and Natesan, P., (2024). Deep residual network with Pelican cuckoo search for traffic sign detection. *International Journal of Pattern Recognition and Artificial Intelligence*, Vol.38(1), p.2355017.
44. Nagarajan, S., Kumaravel, T., Natesan, P., Nagul, K.S., Naveen, A.M., and Sakthisundaram, A., (2023). Cotton Boll Detection through Deep Learning Techniques. *2<sup>nd</sup> International Conference on Automation, Computing and Renewable Systems (ICACRS)*, pp.1357-1362, IEEE.
45. Malliga, S., Vadivel, K.S., Akash, M., Danushraj, K.S., and Gowtham, V., (2023). Leveraging AI-Based Approaches to Forecast Bike Demand in Smart Cities. *7<sup>th</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, pp.1069-1074, IEEE.
46. Subramanian, J.A., Asirvadam, V.S., Zulkifli, S.A.B., Lagisetty, R.K., and Shanthi, N., (2024). AAV Landing Area 3D Reconstruction using Photogrammetric Approach. *IEEE Sensors Letters*, Vol.99, pp.1-4.
47. Arthi, A., Kapil Aggarwal., Karthikeyan, R., Kayalvili, S., Srimathi, S., and Aviral Srivastava., (2024). Hybrid Multimodal Machine Learning Driven Android Malware Recognition and Classification Model, IEEE.
48. Abinaya, N., Priyanka, S., Pavithra, E., Archanaa, S., Dharunhaja, S.R., and Vignes, R., (2024). Forecasting Student Achievement through Machine Learning Models. *7<sup>th</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, IEEE.
49. Priyanka, S., Jayadharshini, P., Santhiya, S., Divyadharshini, B., Samyuktha, K., and Madan, P., (2024). Machine Learning Applications in Traffic Safety: Assessing Accident Severity Automatically. *7<sup>th</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, IEEE.
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51. Keerthika, S., Priyanka, S., Jayadharshini, P., Kowshika, V.L., Shalini, M., and Dinesh Suriya, N., (2024). Machine Learning-Based Alzheimer's Disease Prediction using Textual Data. *7<sup>th</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, IEEE.
52. Benil Jeniffer, S., Sathya, D., Yogeshwari, R., Santhosh Kumar, S., Suganth Krishna, E., and Pranesh, M.P., (2024). Machine Learning Assisted Experimental Investigation on Carbon Emissions of Diverse Fuels. *7<sup>th</sup> IEEE International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, IEEE.
53. Vimaladevi, M., Selvi, S., Prakasham, V., and Vidhya, R., (2024). Map Reduce Based K-Means Genetic and C- Means Fuzzy Clustering Formation for Community Detection and Community Validation. *7<sup>th</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, IEEE.
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55. Thangamani, R., Sathya, D., Sreeka, G., Kavila, V., Nithish, K., and Santhosh, S., (2024). Unveiling Novel Techniques for Human Activity Recognition with Smartphone Sensors. *7<sup>th</sup> International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, IEEE.

56. Meenalochini. M., and Amudha, P., (2024). GNN Based Cauliflower Plant Disease Prediction using Deep Learning Techniques. *International Journal of Intelligent System and Applications in Engineering*, Vol.12, pp.859-869.
57. Chitra Devi Venkatachalam., Devanampriyan Rajan., and Sangeetha Arunachalam., (2024). Optimization of Legume Based Meat Alternative using Freeze Structuring and Evaluation of its Quality Indices. *Suranaree Journal of Science and Technology*, Vol.31(1), pp.1-14.
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59. Shetty, D.K., Malarout, N., Naik, N., Kamath, R., Duhan, A., and Karthikeyan, P., (2024). Development of a scorecard to measure the satisfaction and happiness in higher education. *International Journal of Business Information Systems*, Vol.45(2), pp.143-171.
60. Devadhasan, B.D., and Vetrivel. S.C., (2023). Soft work and fiscal well-being in green work-life balance. *AIP Conference Proceedings*, Vol.2857(1). p.020002.
61. Nanthini, K., Tamilarasi, A., and Sivabalaselvamani, D., (2024). Automated classification of Alzheimer's disease based on deep belief neural networks. *Neural Comput & Applic*, Vol.36, pp.7405-7419.
62. Sathyamoorthy, M., Dhanaraj, R.K., Vanitha, C.N., and Krishnasamy, L., (2024). Augmented Reality Based Medical Education. *Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)*, pp.1-6.
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66. Saraswathi, K., Renukadevi, N.T., Akshaya, K.G., and Kanishka, S., (2024). Prediction of Road accidents using machine and deep learning techniques. *The International Journal of Interdisciplinary Organizational Studies*, Vol.19(1), pp.648-668.
67. Maragatham, T., Chandru Vignesh, C., Sathya, S., and Yokesh, R., (2024). Air Sense: Empowering Air Quality Prediction through Machine Learning Algorithms. *6<sup>th</sup> International Conference on Recent Trends in Advance Computing (ICRTAC)*, pp.617-631, IEEE.

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