KONGU ENGINEERING COLLEGE
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VOL 05	APRIL 2024	ISSUE 04

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 intergrity 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. Kulanthaivel Ponnusamy., Krishnaraja Ammapalyam Ramasamy., Soundara Balu., Vinodhkumar Shanmugasundaram., Selvakumar Subburaj., Mukesh, T.S., and Rini Prathishtha Rajaram., (2024). Sustainable Reuse of Shredded Face Mask in Biopolymer Treated Expansive Soil. *International Journal of Environmental Research*, Vol.18, Article Number: 15, pp.1-14.

2. Yuvaraj, K., Sakthivel, M., Dhivakar Karthick, M., Pradeep, T., Veerapathran, M., and Gowtham, S., (2024). Mechanical performance of mono and hybrid synthetic fibers engineered cementitious composites with silica fume. *Journal of Ceramic Processing Research*, Vol.25(2), pp.254-260.

3. Subashree, P., Sampathkumar, V., Gowtham, S., Abeer A. AlObaid., and Ismail Warad., (2024). Unleashing the potential of ceramic discards as a green marvel in self-compacting concrete. *Journal of Ceramic Processing Research*, Vol.25(2), pp.220-227.

4. Karthikeyan, S., Inbaraj, J.A., Thangavel, P., Deepa, D., Saravanan, N., and Karthikeyan, R., (2024). Selection of Containment System for Handling Cytotoxic Drugs in Pharmaceutical Industry. *Educational Administration: Theory and Practice*, Vol.30(4), pp.6806-6811.

5. Karthikeyan, S., Yuvaraj, R., Prabhakaran, A., Thangavel, P., Karthikeyan, R., and Deepa, D., (2024). Safe Rail Lifting in Construction Industries. *Educational Administration: Theory and Practice*, Vol.30(4), pp.6788-6794.

6. Sangeetha, M., Ravichandran, P., Kaliappan, S., Diana, I.E., Raja, S., and Sagar, B.S., (2024). 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.

7. Raja Gunasekaran., Gobinath Velu Kaliyannan., Uma Gandhi., and Santhosh Sivaraj., (2024). Application of gahnite-reinforced cyclic olefin copolymer cover sheets on Si solar cell for augmenting the power conversion efficiency. *Journal of Materials Science: Materials in Electronics*, Vol.3(10), pp.684.

8. Sivaraju, S.S., Senthilkumar, T., Sankar, R., Anuradha, T., Usha, S., and Ismail Bin Musirin., (2024). Improving the efficiency of induction motor drive by flux and torque control: A hybrid LSE-RERNN approach. *ISA transactions*, Vol.147, pp.215-226.

9. Logeswaran, T., Gopi, M., Manoj Kumar, M., Manoj, P., Navaneethan, G., and Surendar, V., (2024). Automatic Power Supply Availability Indicator through SMS. *Third International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)*, pp.345-349.

10. Surendar, V., Logeswaran, T., Satheeshkumar, G., Sivamani, R., Suresh, P., and Deepakkumar, P., (2024). Comparative Analysis on the Single Phase Five-Level Inverters. *3rd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)*, pp.1465-1469.

11. Karthikeyan, P., Karthik, M., Lakshmi Narayanan, N., Supraja, A., Suruthika, S., and Hari Prasath, S.N., (2024). Design and Implementation of Automatic Cloth Measuring System. *7th International Conference on Electronics, Communication and Aerospace Technology (ICECA)*, pp.969-974.

12. Karthikeyan, P., Karthik, M., Gautham, MN., Gokul, S.K., Jayaram, C.L., and Ganesh, B., (2024). IoT Based Poultry Farm Automation. *2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)*, pp.78-82.

13. Sarathkumar, D., Raymon Antony Raj., Srinivasan Murugesan., Leo John Baptist Andrews., Annamalai Alagappan., and Sivadasan, J., (2024). Unlocking Power Transformer Reliability: DGA in Mineral Oil and Natural Esters. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-5.

14. Sarathkumar, D., Raymon Antony Raj., Suresh Muthusamy., Logesh, B., Praveenkumar, K., Ratchagan, P., and Santhosh Kumar, K., (2024). PV Based Multilevel Inverter using Reduced Number of Switches with Modified H-Bridge. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-6.

15. Sarathkumar, D., Raymon Antony Raj., Sheik Sidthik Akbar., Rajesh Kanna, R., Leo John Baptist Andrews., and Annamalai Alagappan., (2024). IoT Based Motor Control and Line Detection for Smart Agriculture. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-6.

16. Sheik Sidthik, A., Sarathkumar, D., Sivadasan, J., Sampath Kumar, V., Leo John Baptist, A., Annamalai, A., Rajeshkanna, R., and Raymon, A., (2024). Mathematical Design and Numerical Optimization of additives in Transformer Oil using RSM CCD. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-6.

17. Raymon Antony Raj., Sampath Kumar Venkatachary., Sheik Sidthik, A., Sarathkumar, D., Leo John Baptist Andrews., Annamalai, A., Sivadasan, J., and Rajeshkanna, R., (2024). Tracing the transition of Insulating Oil application in Transformers. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-5.

18. Raymon Antony Raj., Sarathkumar, D., Leo John Baptist Andrews., Annamalai, A., Sheik Sidthik, A., and Sampath Kumar Venkatachary., (2024). Extensive Review on Influence of Additive Addition in Insulating Oil for Transformers. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-6.

19. Raymon Antony Raj., Sarathkumar, D., Sheik Sidthik, A., Annamalai, A., Sampath Kumar Venkatachary., and Leo John Baptist Andrews., (2024). A Short Review on the Key Indicators of Ageing Studies Conducted on Insulating Oil. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-6.

20. Raymon Antony Raj., Sarathkumar, D., Leo John Baptist Andrews., Sheik Sidthik, A., Annamalai, A., Sampath Kumar Venkatachary., and Sivadasan, J., (2024). Developing a framework to conduct ageing studies in Insulating Oil for Power and Distribution Transformers. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-5.

21. Leo John Baptist Andrews., Annamalai Alagappan., Sarathkumar, D., Fathima, M., Sampath Kumar Venkatachary., Rajeshkanna, R., and Raymon Antony Raj., (2024). Investigations on Cyber Security Vulnerability using Distribution Analysis. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-6.

22. Raymon Antony Raj., Sampath Kumar Venkatachary., Sarathkumar, D., Sheik Sidthik, A., Leo John Baptist Andrews., and Annamalai, A., (2024). Extensive Critique on Blending Studies Conducted in Insulating Fluids for Transformer Applications. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*, pp.1-6.

23. Gomathy, S., Raja, T., Akash Kumar, C., Abinaya Sri, R.S., and Arjun, M., (2024). Design and Implementation of SEPIC Converter for Wind Energy System. *Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE)*, pp.1-9, IEEE.

24. Revathi, P., Mouleeshuwarapprabu, R., Namitha, K., Prabhuraam, P.R., and Praveenkumar, V., (2024). Development of IoT-enabled smart shoe for gait prediction and abnormality analysis. *IET Conference Proceedings. International Conference on Computer Vision and Internet of Things*, pp.67-72.

25. Kalavathi Devi, T., Renuka Devi, K.S., Umadevi, S., Sakthivel, P., and Seokbum Ko., (2024). Low power adders using asynchronous pipelined modified low voltage MCML for signal processing and communication applications. *Analog Integrated Circuits and Signal Processing*, Vol.118, pp.343-35.

26. Baluprithviraj, K.N., Kalavathi Devi, T., Madhan Mohan, M., AngusamyJeeva, M., Ashik, C., Midhunashri, V.S., (2024). Design and Implementation Secured Automatic Roller Cleaning and Ink Refilling in Printing Industries. *International Conference on Intelligent Data Communication Technologies and Internet of Things*, IEEE.

27. Balambigai, S., Suresh Muthusamy., Kokilavani Thangaraj., Hitesh Panchal., Elavarasi Kasirajan., Abarna Marimuthu., and Abinaya Ravi., (2024). A Novel Approach using Transfer Learning Architectural Models Based Deep Learning Techniques for Identification and Classification of Malignant Skin Cancer. *Wireless Personal Communications*, Vol.134, pp.2183-2201.

28. Maheswaran, S., Gomathi, R.D., Sathesh, S., Poovizhi, S., Ridhish, R., Nanthakkumaran, S., Chinnadurai, M., (2024). Intelligent Cold Chain Security: Nano Power Temperature Sensors, ESP32 and Telegram Bot Integration for Temperature Assurance and Environmental Harm Prevention. *J. Environ. Nanotechnol*, Vol.13(1), pp.17-25.

29. Suthagar, S., Shriganth, R.A., Subash, S., and Vasanth, M., (2024). Performance Analysis of Velostat, Conductive Fabric and Force Sensing Resistor for Incorporating Safety in Women's Jacket. *International Conference on Emerging Smart Computing and Informatics (ESCI)*, pp.1-7, IEEE.

30. Malliga, S., Jayanthjr, J.R., Keerthibala, T., and Shanmugavadivel, K., (2024). KEC_HAWKS@ DravidianLangTech 2024: Detecting Malayalam Fake News using Machine Learning Models. *In Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp.266-270.

31. Malliga, S., Chakravarthi, B.R., Shanmugavadivel, K., Pandiyan, S., Kumaresan, P.K., Palani, B., Premjith, B., Vanaja, K., Mithunja, S., Devika, K., and Haripriya, B., (2024). Overview of the Second Shared Task on Fake News Detection in Dravidian Languages: DravidianLangTech@ EACL 2024. *In Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp.71-78.

32. Sharath, S., Jayanthi, P., and Nirmaladevi, K., (2024). Enhanced Tea Leaf Disease Detection using Deep Learning. *Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE)*, pp.1-7, IEEE.

33. Viveha, C., Rajasekar, V., Sowmiya, S., Nirmala Devi, K., Dhivyanchali, M.N., and Varshni, M., (2024). Point of Care Noninvasive Screening Tool for Early Detection of Anemia using Smartphone. *Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE)*, pp.1-5, IEEE.

34. Ravuri, A., Garg, S., Dondapati, A., Sharma, P., Kalaivaani, P.C.D., and Saxena, K., (2024). Revolutionizing Supply Chain Management: A Comprehensive Review of AI and Machine Learning Impacts. *Utilization of AI Technology in Supply Chain Management*, pp.95-112.

35. Kumar, K.N., Somaiah, A., Lakhanpal, S., Ambilwade, R.P., Maran, P., and Kalaivaani, P.C.D., (2024). Computational Biology Meets Swarm Intelligence: Implications for Supply Chain Management. In Utilization of AI Technology in Supply Chain Management, pp.143-158, IGI Global.

36. Nandhini, P.S., Krishnan, V.N., Raguram, P., and Jebadurai, T.S., (2024). Enhancing Network Security for Kr00k Attack Detection using Binary Grasshopper Optimization (BGO). Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE), pp.1-6, IEEE.

37. Subha, P., Prabavathi, R., Deepa, B., Mohana Saranya, S., Annie, T.A., and Leelavathi, E., (2024). Biometric Authentication on Finger Vein Recognition. Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), pp.1-5, IEEE.

38. Venu, K., and Natesan, P., (2024). Hybrid optimization assisted channel selection of EEG for deep learning model-based classification of motor imagery task. Biomedical Engineering / Biomedizinische Technik, Vol.69(2), pp.125-140.

39. Kavitha, S., Shudapreyaa, R.S., Prakash, P., Vaibhav, S., Viswa, V., and Yogavarshan, S., (2024). Classification of Lung Diseases using Transfer Learning with Chest X-Ray Images. Second International Conference on Emerging Trends in Information Technology and Engineering (ICETITE), pp.1-6, IEEE.

40. Muthuraja, M., Shanthi, N., Manimaran, V., Kumar, M., and Vivekanandhan, D., (2024). An Explainable Approach for Detecting Potato Leaf Disease using Ensemble Model. Third International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS), pp.70-76, IEEE.

41. Sheela, M.S., Shanthi, T., Kumar, T.A., and Muthuraja, M., (2024). Raspberry Pi Pico Based Real Time Patient Health Monitoring System. Intelligent Computing and Control for Engineering and Business Systems (ICCEBS), pp.1-5, IEEE.

42. Anbalagan, N., and Perumal, I., (2024). Envisioning India's Energy Future: Predictive Models for Power Generation Trends. International Conference on Emerging Smart Computing and Informatics (ESCI), pp.1-6, IEEE.

43. Perumal, I., Kalaivani, P., Nandhini, P., Mouliraj, V., and Anbalagan, N., (2024). Crop Yield Forecasting for A Resilient Food System: The Role of AI and Green Principles. International Conference on Emerging Smart Computing and Informatics (ESCI), pp.1-7, IEEE.

44. Nagamani, T., and Logeswari, S., (2024). Hybrid classification of XGBoost-based ADAM optimization for coronary artery disease diagnosis. *Journal of Intelligent & Fuzzy Systems*, Vol.46(4), pp. 10035-10044.

45. Nagamani, T., Jaikanth, S., Jayakumar, S., and Manikandan, V., (2024). Enhancing Diagnostic Accuracy in Echocardiography with Deep Learning Techniques. *3rd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)*, pp.941-948, IEEE.

46. Roopa Devi, E.M., Hemalatha, T., Usha, D., and Nanda, A.K., (2024). An optimal multipath routing protocol using hybrid gravitational search particle swarm optimization for secure communication. *International Journal of Communication Systems*, p.e5731.

47. Thangaraj, R., Pandiyan, P., Anandamurugan, S., and Rajendar, S., (2024). A deep convolution neural network model based on feature concatenation approach for classification of tomato leaf disease. *Multimedia Tools and Applications*, Vol.83(7), pp.18803-18827.

48. Roopa Devi, E.M., and Kayethri, D., (2024). Blockchain-Integrated Edge Computing for IoT-Based Cloud Applications. *In International Conference on Data Science and Big Data Analysis*, pp.289-301.

49. Sruthi, K., Rajalaxmi, R.R., Thangarajan, R., and Roopa, C., (2024). Optimizing CNN architecture using whale optimization algorithm for lung cancer detection. *In Handbook of Whale Optimization Algorithm*, pp.365-372.

50. Abirami, T., Mapari, S., Jayadharshini, P., Krishnasamy, L., and Vigneshwaran, R.R., (2024). Streamlined Deployment and Monitoring of Cloud-Native Applications on AWS with Kubernetes Prometheus Grafana. *International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)*, pp.1149-1155.

51. Santhiya, S., Priyanka, S., and Keerthika, S., (2024). Early Detection and Support for Learning Disabilities: A Machine Learning Approach Empowering Educators. *Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)*, pp.1-4.

52. Santhiya, S., Mapari, S., Abinaya, N., Jayadharshini, P., Priyanka, S., and Krishnasamy, L., (2024). Early Detection of Cervical Cancer using Machine Learning Classifiers for Improved Diagnosis in Underserved Regions. *International Conference*

on Advances in Computation, Communication and Information Technology (ICAICCIT), pp.582-587.

53. Santhiya. S., Uma. S,N., Abinaya, J.P., and Priyanka, S., (20240. A Comparative Exploration in Text Classification for Hate Speech and Offensive Language Detection using BERT-Based and GloVe Embeddings. *2nd International Conference on Disruptive Technologies (ICDT)*, pp.1506-1509.

54. Santhiya, S., Keerthika, S., Sharmila, C., Sruthi, K., and Naveen, B., (2024). Enhancing Epilepsy Diagnosis through EEG-Based Machine Learning: A Comparative Analysis of Classification Algorithms. *IEEE International Conference on ICT in Business Industry & Government (ICTBIG)*, pp.1-4.

55. Abinaya, N., Santhiya, S., Snehavarshini, S., Bhuvaneswari, C., Harini, M., and Soundharya, M., (2024). A Restful Night's Sleep: Predicting Stress with Machine Learning. *2nd International Conference on Disruptive Technologies (ICDT)*, pp.1497-1500.

56. Priyanka, S., Abinaya, N., Keerthika, S., Santhiya, S., Jayadharshini, P., and Vinothini, B., (2024). Product Recommendation System using Machine Learning. *2nd International Conference on Disruptive Technologies (ICDT)*, pp.1515-1518.

57. Priyanka, S., Keerthika, S., Arunesh, J., Priyadharshini, S., Sanjay, S., and Anudeep, C., (2024). Alertness Anticipation Innovations in Driver Safety Predictions. *IEEE International Conference on ICT in Business Industry & Government (ICTBIG)*, pp.1-5.

58. Abinaya, N., Jayadharshini, P., Priyanka, S., Keerthika, S., Santhiya, S., (2024). Online News Article Classification using Machine Learning Approaches. *2nd International Conference on Disruptive Technologies (ICDT)*, pp.1494-1496.

59. Kogilavani S.V., Malliga Subramanian., Shri, R., Srigha, S., Samyuktha, K., and Nithika, K., (2024). KEC-AI-NLP@ LT-EDI-2024: Homophobia and Transphobia Detection in Social Media Comments using Machine Learning. *Proceedings of the Fourth Workshop on Language Technology for Equality, Diversity, Inclusion*, pp.200-205.

60. Kogilavani, S.V., Malliga Subramanian., Aiswarya, M., Aruna, T., and Jeevaananth, S., (2024). KEC AI DSNLP@ LT-EDI-2024: Caste and Migration Hate Speech Detection using Machine Learning Techniques. *Proceedings of the Fourth Workshop on Language Technology for Equality, Diversity, Inclusion*, pp.206-210.

61. Kogilavani, S.V., Malliga Subramanian., Monika, J., Monishaa, S., and Rishibalan, B., (2024). KEC_AI_MIRACLE_MAKERS@ LT-EDI-2024: Stress Identification in Dravidian Languages using Machine Learning Techniques. *Proceedings of the Fourth Workshop on Language Technology for Equality, Diversity, Inclusion*, pp.277-281.

62. Kogilavani, S.V., Sowbharanika, J.S., Navbila, K., and Malliga Subramanian., (2024). Code_Makers@ DravidianLangTech-EACL 2024: Sentiment Analysis in Code-Mixed Tamil using Machine Learning Techniques. *Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp. 129-133.

63. Kogilavani, S.V., Malliga Subramanian., Sanjai, R., and Motheeswaran, K., (2024). Beyond Tech@ DravidianLangTech2024: Fake News Detection in Dravidian Languages using Machine Learning. *Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp.124-128.

64. Kogilavani, S.V., Malliga Subramanian., and Palanimurugan, V., (2024). Innovation Engineers@ DravidianLangTech-EACL 2024: Sentimental Analysis of YouTube Comments in Tamil by using Machine Learning. *Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp.262-265.

65. Kogilavani, S.V., Sowbarnigaa, K.S., Mehal Sakthi., Subhadevi, K., and Malliga Subramanian., (2024). MIT-KEC-NLP@ DravidianLangTech-EACL 2024: Offensive Content Detection in Kannada and Kannada-English Mixed Text using Deep Learning Techniques. *Proceedings of the Fourth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages*, pp.146-150.

66. Jayadharshini, P., Sharon Roji, P.C., Lalitha, K., Santhiya, S., Keerthika, S., and Abinaya, N., (2024). Enhancing Retailer Auctions and Analyzing the Impact of Coupon Offers on Customer Engagement and Sales through Machine Learning. *Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)*, pp.1-6.

67. Jayadharshini, P., Santhiya, S., Rakshitaa, J., Nithika, K., Kannan, N., and Tharun, P., (2024). Advancing COPD Diagnosis through Deep Learning, GANs, and Chest X-Ray Analysis for Precise Detection and Severity. *Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)*, pp.1-6.

68. Jayadharshini, P., Abinaya, N., Rithanya, G., Bhavatharini, N., Balaji, V., and Madhavan, T., (2024). Advancing Brain Tumor Diagnosis through Machine Learning and the Power of Combined CNN and RNN in Medical Imaging. *IEEE International Conference on ICT in Business Industry & Government (ICTBIG)*, pp.1-8.

69. Abirami, T., Mapari, S., Jayadharshini, P., Kavipriya, M., Kavin, T., and Kanagasubramaniyan, V.S., (2024). A Machine Learning Techniques for Early Autism Spectrum Disorder Detection through Comparative Analysis of Feature Engineering and Classification Models. *International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT)*, pp.577-581.

70. Mothil Sengottian., Chitra Devi Venkatachalam., Sathish Raam Ravichandran., and Sarath Sekar., (2023). Hydrothermal Carbonization of Deciduous Woody Biomass: Path to Energy Intensification and Fine Chemicals. *STUDIA UBB CHEMIA, LXIX*, Vol.1, pp.17-34.

71. Manoj Kumar Patley., Ashutosh Tiwari., Kireet Kumar., Thangavelu Arumugam., Sapna Kinattinkara., and Manimaran Arumugam., (2024). Study of mountain ecosystem accounting in lower Himalaya range in Uttarkhand, India using geospatial technology. *Results in Engineering*, Vol.21, p.101811.

72. Rajalashmi, K., Dharineesh, S., Hemachandira, V.S., Sheela, A., (2024). Single Source Switched Capacitor Based Multilevel Inverter with Reduced Number of Components. *J.Electrical Systems*, pp.1887-1897.

73. Sathishkumar, S., Karthik, M., Boopathiraja, R., Nirmaladevi, S., Mohamed Ouladsmane., Theophile Niyitanga., Haekyoung Kim., and Bimetal., (2024). Pyrophosphate of CoNiP2O7@polypyrrole Nanocomposite - Based Electrode for Hybrid supercapacitor applications. *Energy Technology*, p.2301589.

74. Prabhuswamy, M., Tripathi, R., Vijayakumar, M., Thulasimani, T., Sundharesalingam, P., and Sampath, B., (2024). A Study on the Complex Nature of Higher Education Leadership: An Innovative Approach. *In Challenges of Globalization and Inclusivity in Academic Research*, pp.202-223, IGI Global.

75. Ravisankar, A., Shanthi, A.L., Lavanya, S., Ramaratnam, M.S., Krishnamoorthy, V., and Boopathi, S., (2024). Harnessing 6G for Consumer-Centric Business Strategies Across Electronic Industries. *In AI Impacts in Digital Consumer Behavior*, pp.241-270, IGI Global.

76. Naveeenkumar, N., Rallapalli, S., Sasikala, K., Vidhya Priya, P., Husain, J., and Boopathi, S., (2024). Enhancing Consumer Behavior and Experience Through AI-Driven Insights Optimization. *In AI Impacts in Digital Consumer Behavior*, pp.1-35, IGI Global.

77. Vetrivel, S.C., Maheswari, R., and Saravanan, T.P., (2024). Industrial IOT: Security Threats and Counter Measures. *In Communication Technologies and Security Challenges in IoT: Present and Future*, pp.403-425.

78. Vetrivel, S.C., and Mohanasundaram, T., (2024). Beyond the Blackboard: Embracing Hybrid Learning Spaces. *In Global Perspectives on Micro-Learning and Micro-Credentials in Higher Education*, pp.10-28, IGI Global.

79. Rajkumar, R., Valluru, D., Ramshankar, N., Sujatha, S., Somasundaram, R., Sudha, M., and Navaneethan, S., (2024). Enhanced Jaya Optimization Algorithm with Deep Learning Assisted Oral Cancer Diagnosis on IoT Healthcare Systems. *Journal of Intelligent Systems and Internet of Things*, Vol.11(2), 97-110.

80. Vanitha, C.N., Sathyamoorthy, M., Dhanaraj, R.K., Rai, P., Geetha, V., and Manikantan, M., (2023). Exploration of Ripe Raw and Defective Tomatoes with Deep Learning Techniques. *Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS)*, pp.528-533, IEEE.

81. Priya, P.K., Suguna, R.K., Sujitha, S., Devi, G., Nandhini, D., and Kalyan, G.R., (2023). Enhancing Online Learning: A Comparative Analysis of Machine Learning Models and Data Visualization Techniques for Predicting Learner Flexibility. *International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)*, pp.1-6, IEEE.

82. Saraswathi, K., Renukadevi, N.T., and Nandhinidevi, S., (2024). Performance Evaluation of Deep Learning and Machine Learning Techniques for Opinion Mining. *In Intelligent Decision Making Through Bio-Inspired Optimization*, pp.1-17, IGI Global.