KONGU ENGINEERING COLLEGE

CAMPUS R&D NEWS

Transform Yourself

VOL 04 MARCH 2023 ISSUE 03

PH.D VIVA-VOCE COMPLETED

1. B.S.Hari, Research Scholar, Department of Mechanical Engineering defended his thesis entitled "Specific investigations on analyzing the reinforcement effect of several particulates in characteristics of nylon" on 06.03.2023 under the guidance of Dr.R.Rajasekar / EEE.
2. S.Poorani, Research Scholar, Department of CSE defended her thesis entitled "A study on deep learning approach based detection of seizures from EEG data" on 03.03.2023 under the guidance of Dr.P.Balasubramanie / CT-PG.
3. S.Malathy, Research Scholar, Department of CSE defended her thesis entitled "Certain investigations on node deployment and clustering techniques in wireless sensor networks" on 13.03.2023 under the guidance of Dr.K.Sangeetha / CSE.
4. R.Bharathi, Research Scholar, Department of CSE defended her thesis entitled "Energy aware clustering with compressive detection in medical data classification for IoT environment" on 24.03.2023 under the guidance of Dr.T.Abirami / IT.

R&D PROJECTS SACTIONED (2022-2023)

1. Mr.M.S.Kamalesh / EEE received research grant of Rs.17,39,024/- for the project entitled "Design of a paddle based auxiliary charging circuit for E-bikes in left-out situation" under SERB-SIRE scheme on 23.08.2022, Ref. SIR/2022/000778.
2. Dr.R.Parameshwaran/MTS, Dr.S.M.Senthil/Mechanical and Dr.S.Praveenkumar /MTS received research grant of Rs.1,27,84,315/- for the project entitled "Development of intelligent powder-based 3D metal printer with integrated post-processing unit and industry 4.0 features" under DST-TDT-AMT scheme on 04.10.2022, Ref. DST/TDT/AMT/2021/013(G).
3. Dr.A.Santhoshkumar / Mechanical received research grant of Rs.18,30,000/- for the project entitled "Effective conversion of medical and municipal plastic wastes into value added products through integrated thermo-chemical reactors and its kinematic study and life cycle assessment" under SERB-TARE scheme on 24.11.2022, Ref. TAR/2022/000608.
4. Dr.S.V.Kogilavani/AI, Dr.S.Malliga/CSE, Dr.C.S.Kanimozhiselvi/AI and Ms.P.Jayadharshini/AI, received research grant of Rs.19,66,880/- for the project entitled "Study and development of a tool for Alzheimer's dementia detection from impulsive emotions, speech and language using transfer learning based deep neural network techniques" under ICMR-DHR scheme on 01.02.2023, Ref. F.No.R.11012/03/2023-GIA/HR.
5. Dr.S.Shankar/MTS, Dr.R.Naveenkumar/Mechanical and Dr.R.Nithyaprakash/MTS, received research grant of Rs.14,81,880/- for the project entitled "Investigating the impacts of chronic noise exposure on cognitive neuro-ergonomics on the performance and hearing impairments among the various power loom industry workers of Tamilnadu" under ICMR-DHR scheme on 23.02.2023, Ref. F.No.11013/17/2023-GIA/HR.
6. Dr.K.Dinesh/CSE, Dr.K.Kousalya/CSE and Mr.B.Krishnakumar/CSE received research grant of Rs.4,27,000/- for the project entitled "Impact of mobile phone and internet on education in terms of academic performance of students: Detailed study" under ICSSR-MRP scheme on 10.03.2023, File No.02/58/2022-23/RP/MN.
7. Dr.C.Maheswari/MTS, received research grant of Rs.85,000/- for the project entitled "Design and fabrication of light weight wearable upper limb assistive device for children with autism" under IE(I) – R&D Project scheme on 23.03.2023, File No. R.6/2/DR/2022-23/DR2023007.

REFERRED JOURNAL PUBLICATIONS

1. Ezhilarasi Murugesan., Senthilkumar Shanmugamoorthy., Senthilkumar Veerasamy., and Sampathkumar Velusamy., (2023). Groundwater hydrochemistry and its appropriateness for consumption and irrigation: Geographic and temporal variation: Integrated approach. *Urban Climate*, Vol.49, p.101482.
2. Lokesh, S., and Chandrasekaran, P., (2023). Mechanical and durability performance of sustainable concrete with the inclusion of alternative fine aggregate. *Materials Express*, Vol.13(1), pp.147-158.
3. Ambika, D., Vanathi, V., Sasikumaran, K.B., and Vijay, R., (2023). Effective Parking System Design for Market Area at Perundurai City. *AIP Conference proceedings*, Vol.2690.

4. Ambika, D., Vaishnavi, T., Shivabalan, S., and Vivek, S., (2023). Study on Effective Utilization of C&D Debris as light weight material. *AIP conference proceedings*, Vol.2690.
5. Venkatachalam, S., Naveen Kumar, R., Pavadharani, J., Vishnuvardhan, K., Maniarasan, S.K., and Saravanan, M.M., (2023). Effect of occupational exposure to ergonomic risk factors on musculoskeletal diseases among the construction workers - A review. *AIP Conference proceedings*, Vol.2690, p.020014.
6. Venkatachalam, S., Naveen Kumar, R., Dhivya Priya, T., Maniarasan, S.K., and Saravanan, M.M., (2023). Ergonomics assessment of critical work posture in construction industries - A state of art review. *AIP Conference proceedings*, Vol.2690, p.020015.
7. Thangavelu Arumugam., Sapna Kinattinkara., Sampathkumar Velusamy., Manoj Shanmugamoorthy., and Sakthivel Murugan., (2023). GIS based landslide susceptibility mapping and assessment using weighted overlay method in Wayanad: A part of Western Ghats, Kerala. *Urban Climate*, Vol.49, p.101508.
8. Tamilvanan, A., Mohanraj, T., Ashok, B., and Santhoshkumar, A., (2023). Enhancement of energy conversion and emission reduction of Calophyllum inophyllum biodiesel in diesel engine using reactivity controlled compression ignition strategy and TOPSIS optimization. *Energy*, Vol.264, p.126168.
9. Srinivas, T.A., Mohamed, M.J.S., Saravanan, A., Sukania, P., Pathani, A., and Sekar, K., (2023). Smart Highway Technique using Wind Turbine with Vertical Axis (VAWT). *International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*, pp.1-5, IEEE.
10. Jeevanantham, Y.A., Saravanan, A., Vanitha, V., Boopathi, S., and Kumar, D.P., (2023). Implementation of Internet-of Things (IoT) in Soil Irrigation System. *International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)*, pp.1-5, IEEE.
11. Patnaik, R.K., Saravanan, A., Patidar, K., Jeeva, C., Prasad, E.S., and Dharmaraj, G., (2023). Transformer less high step-up DC–DC converter with voltage multiplier concept. *AIP Conference Proceedings*, Vol.2690(1), p.020043.
12. Bhuvanesh Kumar, M., Antony, J., Cudney, E., Furterer, S.L., Garza-Reyes, J.A., and Senthil, S.M., (2023). Decision-making through fuzzy TOPSIS and COPRAS approaches for lean tools selection: A case study of automotive accessories manufacturing industry. *International Journal of Management Science and Engineering Management*, Vol.18(1), pp.26-35.
13. Bhuvanesh Kumar, M., Sathiya, P., and Senthil, S.M., (2023). A critical review of wire arc additive manufacturing of nickel-based alloys: principles, process parameters, microstructure, mechanical properties, heat treatment effects, and defects. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, Vol.45(3), p.164.
14. Santhoshkumar, A., Thangarasu, V., and Ramanathan, A., (2023). Experimental and empirical analysis of performance, combustion and emission characteristics of diesel engine fueled with pyrolysis waste engine oil under single and split injection strategy. *Sustainable Energy Technologies and Assessments*, Vol.55, p.102893.
15. Dharmalingam, B., Santhoshkumar, A., Areeya, S., Rattanaporn, K., Katam, K., Show, P.L., and Sriariyanun, M., (2023). Bayesian Regularization Neural Network-Based Machine Learning Approach on Optimization of CRDI-Split Injection with Waste Cooking Oil Biodiesel to Improve Diesel Engine Performance. *Energies*, Vol.16(6), p.2805.
16. Dharmalingam, B., Ramalingam, S., Santhoshkumar, A., Gundupalli, M.P., and Sriariyanun, M., (2023). A review on different additives and advanced injection strategy on diesel engine characteristics fuelled with first, second and third generation biodiesel. *Materials Today: Proceedings*, Vol.72, pp.2909-2914.
17. Deepa, D., Raj, M.S., Gowthami, S., Hemalatha, K., Poongodi, C., and Thangavel, P., (2023). Identification and Analysis of Alzheimer's Disease using DenseNet Architecture with Minimum Path Length Between Input and Output Layers. *Smart Technologies, Communication and Robotics (STCR)*, pp.1-5, IEEE.
18. Kuppusamy Vellingiri, S.K., Dharmaraj. M., Ponnusamy, S., Kettimuthu Ramadass, U., and Dhanabalaselvan, V., (2023). Assessment of welding fume impacts in a confined workplace by two extraction patterns - a case study of small-scale manufacturing industries. *Environmental Science and Pollution Research*, Vol.30(4), pp.10037-10051.
19. Jagadeeswaria R., Rathika G., Satheesh Kumar, K.V., and Selvakumar, P., (2023). Electrochemical, structural, optical, and morphological characteristics of Cu-loaded ZnO nanostructures synthesized from bio-waste (maize) using a green synthesis technique. *Digest Journal of Nanomaterials and Biostructures*, Vol.18(1), p.291-298.
20. Ramalingam, D., Balusamy, V., and Rangaswamy, S., (2023). Thermomechanical Simulation of Heat-Affected Zones in Nickel-Free High Nitrogen Stainless Steel:

Microstructural Evolution and Mechanical Property Studies. *Materials Research*, Vol.26, p.e20220401.

21. Suganeswaran, K., Muthukumar, P., Parameshwaran, R., Nithyavathy, N., Mohanraj, T., and Deepandurai, K., (2023). Optimization of FSP parameters to fabricate AA7075-based surface composites using Taguchi technique and TOPSIS approach. *Journal of Adhesion Science and Technology*, Vol.37(5), pp.817-841.
22. Chappell, B., Pramanik, A., Basak, A.K., Sarker, P.K., Prakash, C., Debnath, S., and Shankar, S., (2022). Processing household plastics for recycling–A review. *Cleaner Materials*, Vol.6, p.100158.
23. Harding, A., Pramanik, A., Basak, A. K., Prakash, C., and Shankar, S., (2023). Application of additive manufacturing in the biomedical field-A review. *Annals of 3D Printed Medicine*, Vol.10, p.100110.
24. Ze, G.K., Pramanik, A., Basak, A.K., Prakash, C., Shankar, S., and Radhika, N., (2023). Challenges associated with drilling of carbon fiber reinforced polymer (CFRP) composites-A review. *Composites Part C: Open Access*, Vol.11, p.100356.
25. Basak, A.K., Pramanik, A., Prakash, C., Shankar, S., and Sehgal, S.S., (2023). Microstructure and micro-mechanical properties of friction stir processed Al 5086-based surface composite. *Materials Today Communications*, Vol.35, p.105830.
26. Shankar, S., Manikandan, M., Karupannasamy, D.K., Jagadeesh, C., Pramanik, A., and Basak, A.K., (2023). Investigations on the tribological behaviour, toxicity, and biodegradability of kapok oil bio-lubricant blended with (SAE20W40) mineral oil. *Biomass Conversion and Biorefinery*, Vol.13(5), pp.3669-3681.
27. Santhosh Sivaraj., Rajasekar Rathanasamy., Gobinath Velu Kaliyannan., and Manivasakan Palanisamy., (2023). Employing zinc oxide–tantalum pentoxide blend coatings as eminent light harvester for improving performance of silicon solar cell. *Bulletin of Materials Science*, Vol. 46(1), Article ID:16.
28. Rajasekar Rathanasamy., Gobinath Velu Kaliyannan., Santhosh Sivaraj., Essakkiappan Muthiah., Abdul Azeem Ajmal Khaan., Dharmaprakash Ravichandran., and Md Uddin., (2023). Effect of Molybdenum Disulphide Thin Films on Enhancing the Performance of Polycrystalline Silicon Solar Cells. *International Journal of Photoenergy*, Vol.2023, Article ID: 12.
29. Thakur, A.K., Sathyamurthy, R., Velraj, R., Saidur, R., Pandey, A.K., Ma, Z., Prabhakaran, R., and Ali, M. H. (2023). A state-of-the art review on advancing battery thermal management systems for fast-charging. *Applied Thermal Engineering*, Vol.226, p.120303.
30. Thakur, A.K., Ahmed, M.S., Kang, H., Prabakaran, R., Said, Z., Rahman, S., and Hwang, J.Y., (2023). Critical Review on Internal and External Battery Thermal Management Systems for Fast Charging Applications. *Advanced Energy Materials*, Vol.13(11), p.2202944.
31. Annamalai Alagappan., Leo John Baptist Andrews., Sampath Kumar, V., Raymon Antony Raj., and Sarathkumar, D., (2022). Cybersecurity Risks Quantification in the Internet of Things. *7th International Conference on Recent Advances and Innovations in Engineering (ICRAIE)*, pp.154-159.
32. Sarathkumar, D., Srinivasan, M., and Raymon Antony Raj., (2023). An extensive critique on transformer oil reclamation techniques. *7th International Conference on Recent Advances and Innovations in Engineering (ICRAIE)*, pp.438-443.
33. Leo John Baptist Andrews., Raymon Antony Raj., Sampath Kumar, V., and Sarathkumar, D., (2023). Air quality improvement by employing smart traffic management system controlled by internet of things for Botswana in the sub Saharan region of Africa. *3rd International Conference on Communication, Computing and Industry 4.0 (C2I4)*.
34. Meivel, S., Maheswari, S., and Faridha Banu, D., (2023). Design and development of human temperature measuring system using drone based multispectral and thermal images. *Springer Lecture Notes in Civil Engineering*, Vol.304, pp.67-85.
35. Meivel, S., Maheswari, S., and Faridha Banu, D., (2023). Design and method of an agricultural drone system using biomass vegetation indices and multispectral images. *Springer Lecture Notes in Civil Engineering*, Vol.304, pp.343-373.
36. Raymon Antony Raj., Srinivasan Murugesan., Sarathkumar, D., and Sampath Kumar, V., (2023). A Strategy to Reduce the Importation of Petroleum Oils in Vietnam by Transforming Rice Bran Waste to Vegetable Oil-Based Transformer Liquid Insulation. *IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)*.
37. Sarathkumar Duraisamy., Srinivasan Murugesan., Karthikeyan Murugan., and Raymon Antony Raj., (2023). Reclamation of Aged Transformer Oil Employing Combined Adsorbents Techniques using Response Surface for Transformer Applications. *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol.30(2), pp.769-776.

38. Jagadeeshwaran, A., Vetrivel, M., Chockalingam Aravind Vaithilingam., Karthikeyan, B., and Sheela, A., (2023). Implementation of a Smart Meter with Independent Load Monitoring using IoT. *Third International Conference on Artificial Intelligence and Smart Energy (ICAIS)*.
39. Baluprithviraj, K.N., Monesh, M.S, PraneshRaj, C., and Varuna, S., (2023). Enhancement of Yarn Quality by Controlling the Humidity and Temperature. *International Conference on Automation, Computing and Renewable Systems (ICACRS)*.
40. Mahesh, N., Sathiyaseelan, L., Sharanya, T., and Shedhu, M., (2023). IOT Based Performance and Power Monitoring System for Autolooms. *Third International Conference on Artificial Intelligence and Smart Energy (ICAIS)*.
41. Santaji Krishna Shinde., Frank Vijay, J., Gomathi Meena, S., Roopa, H., Suji Prasad, S.J., and Ramesh, S., (2023). IoT based smart intruder system for baby monitoring. *AIP Conference Proceedings*, Vol.2690, p.020041.
42. Basha, A.J., Devi, M.R., Sivaranjani, P., Hussain, D.M., and Padhy, V., (2023). Pso-dbnet for peak-to-average power ratio reduction using deep belief network. *Computer Systems Science and Engineering*, Vol.45(2), pp.1483-1493.
43. Gavaskar, K., Sivaranjani, P., and Elango, S., (2023). Low-Power SRAM Cell and Array Structure in Aerospace Applications: Single-Event Upset Impact Analysis. *Wireless Personal Communications*, Vol.129, pp.37-55.
44. Chandrasekaran, A., Senthil Kumar, K., and Tamilselvan, K.S., (2023). Enhancing Supercapacitor Performance using ZnO Embedded on GO/PPy Composite as Versatile Electrodes. *High Energy Chemistry*, Vol.57, pp.69-76.
45. Diniesh, V.C., and Murugesan, G., (2023). EEM-MAC: Enhanced energy efficient mobility aware MAC protocol for mobile internet of things. *Peer-to-Peer Networking and Applications*, Vol.16(1), pp.87-106.
46. KavinKumar, K., Dinesh, P.M., Rayavel, P., Vijayaraja, L., Dhanasekar, R., Rupa Kesavan., Kannadasan Raju., Arfat Ahmad Khan., Chitapong Wechtaisong., Mohd Anul Haq., Zamil, S., and Alzamil, Ahmed Alhussen., (2023). Brain Tumor Identification using Data Augmentation and Transfer Learning Approach. *Computer Systems Science and Engineering*, Vol.46(2), pp.1845-1861.
47. Kalaiselvi. T.C., Dinesh, A., Arjun Karuppusamy., and Bharath Sumathy., (2023). Detection and Classification of Disease in Poultry farm. *Journal of Survey in Fisheries Sciences*, Vol.10(2S), pp.368-382.
48. Kalaiselvi, T.C., Palanivel, P., Niventhra, R., and Praneshkumar, R., (2023). Covid-19 Indoor safety Monitoring System using Machine Learning. *Second International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE)*.
49. Vara Lakshmi, T., Naveen, S.M., Raja, Sudhir Ramadass., Sreekumar Narayanan., Velagapudi Sreenivas., and Balambigai, S., (2023). Block Chain Technology Implementations for Secured Financial Transactions using Cloud Environment. *International Interdisciplinary Humanitarian Conference for Sustainability (IIHC)*, pp.1397-1401, IEEE.
50. Sundar, R., Ramadass, S., Meeha, D., Balambigai, S., Shankar, S.S., and Parasa, G., (2023). Evaluating the Solutions to Predict the Impact of Lung Cancer with an Advanced Intelligent Computing Method. *5th International Conference on Smart Systems and Inventive Technology (ICSSIT)*, pp.1733-1737, IEEE.
51. Malini, P., Vasantharaj, A., Preethi, S., Karpakam, S., Sasikala, U. and Basha, S.I., (2022). Soft Computing based Machine Learning Techniques for Optical Communication Networks. *International Conference on Automation, Computing and Renewable Systems (ICACRS)*, pp.526-531, IEEE.
52. Suthagar, S., Mageshkumar, G., Ayyadurai, M., Snegha, C., Sureka, M. and Velmurugan, S., (2023). Faecal Image-Based Chicken Disease Classification using Deep Learning Techniques. *Inventive Computation and Information Technologies: Proceedings of ICICIT*, pp.903-917.
53. Dr.T.C.Kalaiselvi and C.N.Vanitha (2023). IoTSG in Maintenance Management. Smart Grids And Internet Of Things (Book chapter)
54. Suthagar, S., Mageshkumar, G., Hemalatha, K., Prabhakara Rao, S., Mahesh, R. and Kural Eniyavan, S.M., (2023). Identification of Respiratory Diseases and Diabetes by Non-invasive Method using IoT. *Inventive Computation and Information Technologies: Proceedings of ICICIT*, pp.425-440.
55. Mageshkumar, G., Saggurthi Prabhakara Rao., Suthagar, S., Hemalatha, K., Gowtham, K., and Hariharan, T., (2023). Design and Implementation of a Solar Powered Floating Device for Water Quality Monitoring in Inland Aquaculture Farms using LoRa Wireless Communication. *Inventive Computation and Information Technologies: Proceedings of ICICIT*, pp.687-705.

56. Mageshkumar, G., Suthagar, S., Maher Shalal, D., Murugananthan, S. and Manoji, T., (2023). Flexi-Pay System for Public Transport Based on Passenger Comfort using Global Positioning System. *Inventive Computation and Information Technologies: Proceedings of ICICIT*, pp.593-605.
57. Maheswaran, S., Sivapriya, G., Gowri, P., Indhumathi, N. and Gomathi, R.D., (2023). Diagnosis of COVID-19 from CT Images and Respiratory Sound Signals using Deep Learning Strategies. *System Design for Epidemics using Machine Learning and Deep Learning*, pp.185-205.
58. Renugadevi, A.S., (2023). Introduction: Deep Learning and Computer Vision. *In Object Detection with Deep Learning Models, CRC press*, pp.1-22.
59. Gopal, S.B., Poongodi, C., and Nanthiya, D., (2023). Chapter-11-Blockchain-based secured payment in IoE. *In Smart Energy and Electric Power Systems*, pp.185-200.
60. Gopinath, B., Shanthi, N., and Santhi, R., (2023). Identification of Malignant Patterns in FNAC Digital Images of Thyroid Nodules through Cascaded Segmentation Stages. *International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)*, pp.302-306, IEEE.
61. Brindha, D.V., Prabavathi, R., Subha, P. and Saranya, M.S., (2022). Women Safety App for Detecting the Stalkers behavior. *International Conference on Computer, Power and Communications (ICCPC)*, pp.627-631, IEEE.
62. Saranya, S.M., Prabavathi, R., Brindha, V.D., Subha, P., Mohanapriya, S. and Deepa, B., (2022). Auto encoder Based Tomato Leaf Disease Identification. *International Conference on Computer, Power and Communications (ICCPC)*, pp.537-540, IEEE.
63. Sathishkumar, V.E., Sharmila, C., Santhiya, S., Poongundran, M., Sanjeeth, S. and Pranesh, S., (2023). Convolutional Neural Networks for Traffic Sign Classification using Enhanced Colours. *In Deep Sciences for Computing and Communications: First International Conference, IconDeepCom 2022*, pp.34-43.
64. Gunasekar, M., and Thilagamani, S., (2023). Improved Feature Representation using Collaborative Network for Cross-Domain Sentiment Analysis. *Information Technology and Control*, Vol.52(1), pp.100-110.
65. Selvarathi, C., and Varadhaganapathy, S., (2023). Deep Learning Based Cardiovascular Disease Risk Factor Prediction Among Type 2 Diabetes Mellitus Patients. *Information Technology and Control*, Vol.52(1), pp.215-227.
66. Shanthakumari, R., Devi, E.R., Vinothkumar, S., Sathya, S., and Keerthi, S., (2023). Deep Convolutional Neural Network Model for Classifying Alzheimer's Disease. *14th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2022)*, pp.285-295.
67. Anitha, N., Priya, D., Baskar, C., and Devisurya, V., (2023). An Effective Logistics Network Design using Donkey-Smugglers Optimization (DSO) Algorithm. *14th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2022)*, pp.616-623.
68. Jenisha, J.J., Sandhiya, R., Gunanithi, M., and Hariraj, S., (2022). Employing Deep Learning Algorithm to Identify Diabetic Retinopathy. 5th International Conference on Contemporary Computing and Informatics (IC3I), pp.1944-1948, IEEE.
69. Logeswaran, K., Suresh, P., and Anandamurugan, S., (2023). Particle Swarm Optimization Method Combined with off Pollicy Reinforcement Learning Algorithm for the Discovery of High Utility Itemset. *Information Technology and Control*, Vol.52(1), pp.25-36.
70. Kanimozhiselvi, C.S., Jayaprakash, D., and Poonguzhali, S., (2023). Early Diagnosis of autism using Indian autism grading tool. *Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology*, Vol.44(3), pp.3459-3474.
71. Subalalitha Chinnaudayar Navaneethakrishnan., Bharathi Raja Chakravarthi., Kogilavani Shanmugavadivel., Malliga Subramanian., Prasanna Kumar Kumaresan., Bharathi, Lavanya Sambath Kumar., and Rahul Ponnusamy., (2023). Findings of shared task on Sentiment Analysis and Homophobia Detection of YouTube Comments in Code-Mixed Dravidian Languages, FIRE '22. *14th Annual Meeting of the Forum for Information Retrieval Evaluation*, pp.18-21.
72. Boomashri, M., Perumal, P., Gunavathy, K.V., Alkallas, F.H., Trabelsi, A.B.G., Shkir, M., and AlFaify, S., (2023). Detection of ammonia gas at room temperature through Sb doped SnO2 thin films: Improvement in sensing performance of SnO2. *Ceramics International*, Vol.49(6), pp.10096–10106.
73. Gunavathy, K.V., Vinoth, S., Isaac, R.S.R., Prakash, B., Valanarasu, S., Ben Gouider Trabelsi, A., Shkir, M., and AlFaify, S., (2023). Highly improved photo-sensing ability of In2S3 thin films through cerium doping. *Optical Materials*, Vol.137, p.13612.
74. Arulanantham, A.M.S., Gunavathy, K.V., Mohan Raj, P., Rigana Begam, M., Ganesh, V., Yahia, I.S., Rex Rosario, S., and Thomas, R., (2023). Noticeable gas sensing properties of ZnO nano-crystallites using two-step preparation technique. *Applied Physics A*, Vol.129, pp.290.

75. Gunasekaran, M., Srinivasan, P., Zulfareen, N., and Venugopal, T., (2023). A case study on expired drugs: The potential corrosion inhibitory activity of expired labetalol drug in 1M HC1 for plain carbon steel. *Indian Journal of Chemical Technology*, Vol.30, pp.180-186.
76. Mohammed, S., Krishna, S.H., Mudalkar, P.K., Verma, N., Karthikeyan, P., and Yadav, A.S., (2023). Stock Market Price Prediction using Machine Learning. *5th International Conference on Smart Systems and Inventive Technology (ICSSIT)*, pp.823-828, IEEE.
77. Veeraiah, Vivek., Pankajam, A., Ela Vashishtha., Dharmesh Dhabliya., Karthikeyan, P., and Radha Raman Chandan., (2023). Efficient COVID-19 Identification using Deep Learning for IoT. *5th International Conference on Contemporary Computing and Informatics (IC3I)*, pp.128-133, IEEE.
78. Nanthini, K., Sivabalaselvamani, D., Chitra, K., Mohideen, P.A., and Raja, R.D., (2023). Cardiac Arrhythmia Detection and Prediction using Deep Learning Technique. In: Bindhu, V., Tavares, J.M.R.S., Vuppalapati, C. (eds) Proceedings of Fourth International Conference on Communication, Computing and Electronics Systems. *Lecture Notes in Electrical Engineering*, Vol 977, pp.983-1003.
79. Vanitha, C.N., Malathy, S., Krishna, S.A., Manikantan, M., Kumar, P.D., and Cibi, M.G., (2023). Detection of Ripe and Raw Tomatoes using Internet of Things. *7th International Conference on Computing Methodologies and Communication (ICCMC)*, pp.1255-1260.
80. Vanitha, S., and Balasubramanie, P., (2023). Improved ant colony optimization and machine learning based ensemble intrusion detection model. *Intelligent Automation & Soft Computing*, Vol.36(1), pp.849–864.
81. Dhivyaa, C.R., and Anbukkarasi, S., (2023). Video Matting, Watermarking and Forensics. *Computational Intelligence in Image and Video Processing*, pp. 245-257.

EDITOR(S)	ADDRESS FOR COMMUNICATION
Dr.S.Shankar Dr.C.Maheswari	Research & Development Cell Kongu Engineering College Perundurai 638060, TamilNadu, INDIA rnd@kongu.ac.in