

S.A. ENGINEERING COLLEGE, CHENNAI-77

(An Autonomous Institution, Affiliated to Anna University)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Research paper publication

Academic Year -2023-2024

S.No	Title of the Paper	Authors of the Paper	Specify Int. Conf/ Int. Journal	Name of the Conference/ Journal with Vol. Issue No, Page No., Impact Factor	DOI	Referred Indexing
1.	Identification of High Energy Gamma Particles from the Cherenkov Gamma Telescope Data using a Deep Learning Approach	K. Karthick , S. Akila Agnes, S. Sendil Kumar, Sultan Alfarhood, And Mejdil Safran	Int. Journal	IEEE Access, Vol. 12, pg. 16741-16752, 2024	10.1109/ ACCESS S.2024.3 359533	WOS indexed https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10415380
2.	An Integrated Economic and Emissions Dispatch Problem using the Sparrow Search Algorithm	V. Mahesh Kumar Reddy, P. Venkatesh, R. Dharmaprakash, S. Sendil Kumar	Int. Journal	SSRG International Journal of Electrical and Electronics Engineering, vol. 10, no. 8, pp. 206-214, 2023	10.1444 5/23488 379/IJE EE-V10I 8P120	Scopus indexed https://doi.org/10.14445/23488379/IJEEE-V10I8P120
3.	Predictive Modeling of Power System Contingencies with SVMs	S. Muthukaruppasamy, Suresh Babu Daram, S. Sendil Kumar ,	Int. Journal	SSRG International Journal of Electrical and Electronics	10.1444 5/23488 379/IJE EE-V10I 9P111	Scopus indexed https://doi.org/10.14445/23488379/IJEEE-V10I9P111

	and FACTS Devices for Enhanced Stability	R. Dharmaprakash		Engineering, vol. 10, no. 9, pp. 112-123, 2023		
4.	Creating a deep learning model using a Swin Transformer and tree growth optimization to classify brain tumour	K.Sankar V GokulaKrishnan S. Sendilkumar P Pushpa B Prathusha Laxmi	Int. Journal	Review of Computer Engineering Research, vol. 10, no. 3, 110-121, 2023	10.1848/8/76.v10i3.3500	Scopus indexed https://doi.org/10.18488/76.v10i3.3500
5.	Performance Analysis of Autoregressive Integrated Moving Average (ARIMA) and 'early R' Statistical Models for Predicting Epidemic Outbreaks: A Case Study on COVID-19 Data in India	K. Karthick, G. Ponkumar, S. Sendil Kumar	Int. Journal	Trends in Sciences, vol. 10, pg. 1-13, 2023	10.4804/8/tis.2024.7246	Scopus indexed https://doi.org/10.48048/tis.2024.7246
6.	SONAR Based Under Water Mine Detection Using Machine Learning Algorithms	B. Nikhil Krishna Reddy, Rashmi M. R, Chockalingam Aravind Vaithilingam, S. Kamalakkannan	Int. Conf	IEEE – ICIPMTM 2024	10.1109/ICIPMTM59628.2024.10563616	Scopus indexed https://doi.org/10.1109/ICIPMTM59628.2024.10563616

7.	fMRI-Based Alzheimer's Disease Detection Using the SAS Method with Multi-Layer Perceptron Network	Aarthi Chelladurai, Dayanand Lal Narayan, Parameshachari Bidare Divakarachari, Umasankar L	Int. Journal	Brain Science, vol.13, no. 6, pg. 1-17, 2023	10.3390/brainsci13060893	WOS indexed https://doi.org/10.3390/brainsci13060893
8.	Novel and Optimized Efficient Transmission Using Dynamic Routing Technique for Underwater Acoustic Sensor Networks	Swapna Babu, Bhuvaneshwari S , Sujitha Madhavadas, Kavitha Ganesan	Int. Journal	Engineering Proceedings, vol. 59, no. 89, pg. 1-10, 2023	10.3390/engproc2023059089	Scopus indexed https://doi.org/10.3390/engproc2023059089
9.	Designing and Performance analysis of a concentrated solar power system in cold arid high DNI area	C. Vennila, G. Muralikrishnan , G. Malathi, D. R. Srinivasan, Ravinaik Banoth, J. Immanuel Durai Raj	Int. Journal	International Journal of intelligent systems and applications in Engineering, vol. 12, no. 2s, pg.475–486, 2023.	-	Scopus indexed https://ijisae.org/index.php/IJISAE/article/view/3647
10.	Design of Intelligent Home Security Handling System based on Face Recognition and IoT	P. Nirmala, J. Megala , P.Kalpana Devi, CB Venkatramanan, F. Antony Xavier Bronson	Int. Journal	IEEE –RMKMATE 2023	10.1109/RMKMATE59243.2023.10369600	Scopus indexed https://doi.org/10.1109/RMKMATE59243.2023.10369600

	Assisted Technology					
11.	Predictive Modeling of Energy Consumption in the Steel Industry Using Cat Boost Regression: A Data-Driven Approach for Sustainable Energy Management	K. Karthick, R. Dharmaprakash, S. Sathya	Int. Journal	International Journal of Robotics and Control Systems. Vol. 4, no. 1, pg. 33-49, 2024.	10.31763/ijrcs.v4i1.1234	Scopus indexed https://doi.org/10.31763/ijrcs.v4i1.1234
12.	Machine learning applications for predicting system production in renewable energy	S. Deepa, R. Muthukumar, N. Rajavinu , R. Kalavani, P. Kavitha	Int. Journal	International Journal of Power Electronics and Drive Systems, vol. 15, no. 3, pg. 1925-1933, 2024.	10.11591/ijpeds.v15.i3.pp1925-1933	Scopus indexed https://doi.org/10.11591/ijpeds.v15.i3.pp1925-1933
13.	Machine learning algorithms-based decision support model for diabetes	K. Karthick, R. Manikandan, T. Sathishkumar	Int. Journal	Review of Computer Engineering, vol.11, no.1, pg. 16-29, 2024.	10.18488/76.v11i1.3598	Scopus indexed https://doi.org/10.18488/76.v11i1.3598
14.	Optimizing Electric Vehicle Battery Life: A machine learning Approach for sustainable Transportation	K. Karthick, S. Ravivarman, R. Priyanka	Int. Journal	World Electric Vehicle Journal. Vol. 15, no. 2, pg. 1-18, 2024	10.3390/wevj15020060	Scopus indexed https://doi.org/10.3390/wevj15020060

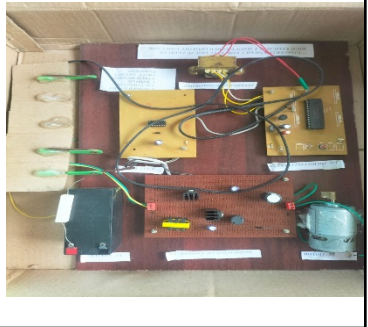

15.	A Deep Learning. Techniques With An Effective Optimization Algorithm Based On Novel Signal Conducting	V. Divya, S. Sendilkumar, V GokulaKrishnan, Manoj Kumar	Int. Journ al	Computer Systems Science and Engineering, Vol.45, No.2 pg.1869-1886 ,2023	10.32604/csse.2023.029762	WOS indexed https://doi.org/10.32604/csse.2023.029762
16.	IoT for Agriculture System-Weather Prediction & Smart Irrigation System for Single Plot, Multiple Crops	S. Kamalakannan	Int. Conf	International conference on Electrical Energy Systems	10.1109/ICEES57979.2023.10110045	Scopus indexed https://doi.org/10.1109/ICEES57979.2023.10110045
17.	Biofuel production, bioremediation, and the frontier of synthetic cell-free processes: IOT-AI integration	N.B. Teja, S. Karthikeyan, S.Bharathi	Int. Journ al	Applications of Synthetic Biology in Health, Energy, and Environment,	10.4018/978-1-6684-6577-6.ch013	Scopus indexed https://doi.org/10.4018/978-1-6684-6577-6.ch013
18.	Neuro AI-Driven Advanced Deep Brain Stimulation for Precision Management of Movement Disorders	V. Balaji, T.S. Karthik, S.Sathya	Int. Journ al	ICACRS 2023 - Proceedings	10.1109/ICACRS58579.2023.10404966	Scopus indexed https://doi.org/10.1109/ICACRS58579.2023.10404966

19	Seasonal Performance Analysis and Comparative Evaluation of Wind Power Prediction Models Using Machine Learning Techniques	K Karthick · S Krishnan, N. Rajavinu, B Muthuraj	Int. Journ al	Journal of Sustainability Research, Vol. 6, No.2, e240029	10.20900/jsr20240029	Scopus indexed https://doi.org/10.20900/jsr20240029
20	Wireless Sensor Networks For Improved Garbage Monitoring And Environmental Sustainability Using Leach Protocol Based	Ramesh, G. Babitha Thangamalar, J. Pachiappan, K. Megala, J.	Int. Journ al	Journal of Environmental Protection and Ecology, 2023, 24(5), pp. 1669–1679		Scopus indexed https://scibulcom.net/en/journal/1311-5065
21	Enhancing System Stability with FACTS Devices Using Least Mean Square Based Neural Network Algorithm	T.Sathish Kumar; K. Sathiyasekar	Int. Journ al	ICOSEC 2023	10.1109/ICOSEC58147.2023.10276121	Scopus indexed https://doi.org/10.1109/ICOSEC58147.2023.10276121
22	A Real-time Food Image Recognition System to Predict the Calories by Using Intelligent	G. Ramkumar Venkatramanan C B V. Manonmani S.Palanivel Sakthisaravanan. N	Int. Journ al	RKMMATE	10.1109/RMKMATE59243.2023.10369431	Scopus indexed https://doi.org/10.1109/RMKMATE59243.2023.10369431

	Deep Learning Strategy					
23	Environmental Impacts and Remediation in Soil Analysis Techniques	Syed Musthafa. A; Megha Kulkarni; R. Kamalakannan; S.Balasubramaniyan	Int. Journal	ICSCNA 2023	10.1109/ICSCNA58489.2023.10370485	Scopus indexed https://doi.org/10.1109/ICSCNA58489.2023.10370485
24	An Efficient Learning Assisted Malaria Parasites Identification Methodology based on Blood Smear Images	S. D. Lalitha; P. Remya; R. Priyanka; N. Rajendran; N. Sivakamasundari	Int. Journal	ICES 2023	10.1109/ICES60034.2023.10465510	Scopus indexed https://doi.org/10.1109/ICES60034.2023.10465510
25	Derivation of chitosan based composite material with root extracts of Calotropis gigantea accelerating wound healing	Rajaram A Ismail Y, Meena M, Megala J, Sathyaseelan P, Kumar S	Int. Journal	Oxidation Communication, Vol. 46, no. 4, pp.958–965		Scopus indexed https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8198538/
26	Improving Photothermal conversion efficiency to paraffin with cu-cuo hybrid nano fluids	K. Srinivasulu Reddy N. Krishnamoorthy P. Nithish Reddy G. Srimathy	Int. Journal	Nano World Journal,	10.17756/nwj.2024-s1-036	Scopus indexed https://doi.org/10.17756/nwj.2024-s1-036

Product Development

Academic Year -2023-2024

S. No	Title of the Project	Name of student & Register number	Name of the guide	Industry/ In house	Justification	Details of the project
1.	High Efficiency Single Ended Primary Inductor Converter for E-Vehicle	R. Dhanushree 111920EE 01004	Dr.G.Rohini	In house	Received grant from TNSCST Received best paper award	
2.	Pneumatic Ventilator	V. Logabi Chandran 111920EE 01304	Dr.S.Sendil Kumar	In house	Best paper award Project published in patent Application Number : 202441059750	
3.	Design and Implementation of Automated Switching and real time monitoring of Hybrid Solar System	S. Siva Santhosh 111920EE 01314	Mrs.J.Megala	In house	Received best paper award Project published in patent Application Number: 202441048754	