

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 -2022-2023

S. No	Title of the Paper	Authors of the Paper	Specify Int.Con f/ Int. Journal	Name of the Conference/ Journal with Vol. Issue No., Page No., Impact Factor	DOI	Referred Indexing
1.	IOT based smart surgical management platform for hospital to enhance safety in medical treatment	K. Kalaivani; G. Rohini ; V.Selvakumar; N Bharathiraja; R.Thiagarajan; B.V.Venkateswaral u;	Int. Journal	International Journal of Health Sciences Vol.6, Issue. S4 pg.8470-8478	https://doi.org/10.53730/ijhs.v6nS4.11084	Scopus indexed https://sciencescholar.us/journal/index.php/ijhs/article/view/11084
2.	Synthesis and Development of Phosphazene Nano- Fiber Reinforced Composite Material for Weight Reduction in DC Motor Body	A.Saraswathi; K.Kanimozhli; S.Rajasekaran; G.Rohini	Int. Journal	PERIODICO di MINERALOGIA Vol.91, No. 5, 2022	https://doi.org/10.37896/pd91.5/91555	WOS indexed https://periodicodimineralogia.it/wp-content/uploads/2022/10/202291555.pdf
3.	Signal Conducting System with Effective Optimization Using Deep Learning for	V. Divya; S. Sendil Kumar , V. Gokula Krishnan Manoj Kumar	Int. Journal	Computer Systems Science and Engineering, Vol.45, No.2 pg.1869-1886,2022	https://doi.org/10.32604/csse.2023.029762	Scopus Indexed https://www.techscience.com/csse/v45n2/50393/pdf

	Schizophrenia Classification					
4.	Improving EEG Electrode Sensitivity with Graphene Nano Powder and Neural Network for schizophrenia Diagnosis”	V. Divya, S. Sendil Kumar , S. Usha, S. Hemamalini, V. Gokula Krishnan;	Int. Journal	Tikrit Journal of Engineering Sciences Vol.30, No.1, pg.84- 93,2023	https://doi.org/10.25130/tjes.30.1.8	Scopus Indexed https://tjes.com/ojs/index.php/tjes/article/view/975
5.	A hybrid technique for grid connected solar-wind hybrid system with electric vehicles	Bhanu P , K.Lakshmikhandan , Kannan Palanisamy, Muthukumaran Sithambaram	Int. Journal	Energy & Environment Online first	DOI: 10.1177/ 0958305 X23115 3933	Scopus and WOS Indexed https://journals.sagepub.com/doi/10.1177/0958305X231153933
6.	An Efficient Liver Disease Prediction based on Deep Convolutional Neural Network using Biopsy Images	S. Bharathi ; A. Balaji; J.Dolly Irene; C. Kalaivanan; R. Anusuya	Int. Conf	2022 3rd International Conference on Smart Electronics and Communication (ICOSEC) pg.1141- 1147,Nov 2022	DOI: 10.1109/ ICOSEC 54921.2 022.995 1870	Scopus Indexed https://ieeexplore.ieee.org/document/9951870
7.	IoT-based Battery Management System by Deploying an Machine Learning Model	A. Prabha ; S. Saravanan; S. Balaji; Malini K V; Kaushalya Thopate; T. Sivakami; M.Siva Ramkuma	Int. Conf	2022 3rd International Conference on Smart Electronics and Communication (ICOSEC) Nov 2022,pg.439- 445	DOI: 10.1109/ ICOSEC 54921.2 022.995 2044	Scopus Indexed https://ieeexplore.ieee.org/document/9952044/
8.	Performance Improvement of	Anna Devi; J. Megala ;	Int. Conf	2022 International	DOI: 10.1109/	Scopus Indexed

	Partially-Shaded PV Modules Connected DC Micro grid Systems	D. Gururaj; A. Karunakaran; R. Radhika; S. Gomathii		Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES) 15-16 July 2022,pg. 1-5	ICSES5 5317.20 22.9914 241	https://ieeexplore.ieee.org/document/9914241/
9.	Deep Learning based Fault Detection in Power Transmission Lines	T. Sathish Kumar; RadheyShyam Meena; P.K Mani; S. Ramya; K. Lakshmi Khandan; Arshad Mohammed M Siva Ramkumar	Int. Conf	2022 4th International Conference on Inventive Research in Computing Applications (ICIRCA) 21-23, Sep.2022 pg. 861-867	DOI: 10.1109/ICIRCA54612.2022.9985700	Scopus Indexed https://ieeexplore.ieee.org/document/9985700/
10	Design and Implementation of Advanced Controller for Aircraft Control	S. Sathya; K N Karthick; Hemachandra Gudimindla; Akshada Kulkarni M. Deivakani; Arshad Mohammed M Siva Ramkumar	Int. Conf	2022 International Conference on Inventive Computation Technologies (ICICT) pg. 805-811 20-22 July 2022	DOI: 10.1109/ICICT54344.2022.9850945	Scopus Indexed https://ieeexplore.ieee.org/document/9850945/
11	A Deep Learning-based Approach on Vehicle Detection, Tracking, and Counting System	N. Rajavinu; B. Swaminathan; A P Shameer; Dwaitha Jagadish; Debarati Ghosal; Pramit Brata Chand	Int. Conf	2022 International Conference on Inventive Computation Technologies (ICICT) pg. 831-836	Doi: 10.1109/ICICT54344.2022.9850538	Scopus Indexed https://ieeexplore.ieee.org/document/9850538/




12	Fault Diagnosis of Electric Vehicle's Battery by Deploying Neural Network	Suwarna Shete; Pranjal Jog; R. Kamalakannan ; J. T. Arun Raghesh; S.Manikandan; R. K. Kumawat	Int. Conf	2022 Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), 10-12 Nov.2022 pg. 346-351	DOI: 10.1109/I-SMAC55078.2022.9987277	Scopus Indexed https://ieeexplore.ieee.org/document/9987277/
13	Integration of Microgrid with Power for Supplying Quality Power of High Reliability and Efficiency	C. Kalaivanan; G Kalyan Kumar; N. Sakthisaravanan ; Hemavathi; G Sajiv; V. Mohanavel	Int. Conf	2022 6th International Conference on Electronics, Communication and Aerospace Technology	DOI: 10.1109/ICECA55336.2022.10009514	Scopus Indexed` https://ieeexplore.ieee.org/document/10009514/
14	Optimization of Battery Energy Storage System in Active Distribution Networks	S. P. Alexprabu K. Sathiyasekar	Int. Journal	Electric Power Components and Systems Vol.51, No.16 pg.1697-1709	https://doi.org/10.1080/15325008.2023.2202672	Scopus & WOS Indexed https://www.tandfonline.com/doi/full/10.1080/15325008.2023.2202672
15	Development of Embedded safety system for an electric vehicle	S.Deepa S.P.Alexprabhu D.Karthik Prabhu Mallikarjun G Hudedmani Govindarajulu Eedara	Int. Journal	Journal of Pharmaceutical Negative Results pg.1813-1824 Vol. 13, Special issue 09, Nov.2022	DOI: https://doi.org/10.47750/pnr.2022.13.S09.218	Scopus Indexed` https://www.pnrjournal.com/index.php/home/article/view/3664/3735


16	Communication Technologies And Difficulties On 6g Networks For The Internet: Iot- Based Personalized Healthcare	Thayyaba Khatoon Mohammed, Mallikarjuna Reddy Chinthaparthi, R.Priyanka , E. Krishnaveni Reddy	Int. Journal	Journal of Pharmaceutical Negative Results Vol. 13 Special issue .09 (2022) pg.1265-1271	https://doi.org/10.47750/pnr.2022.13.S09.149	Scopus Indexed https://www.pnrjournal.com/index.php/home/article/view/3498/3526
17	Economical Systematic Approach For OnBoard Processing And Control, In Remote Sensing Equipment	Vasudhevan.V, D.Naveen Raju, A.Prabha , Dr.R. Manikandan	Int. Journal	Journal of Pharmaceutical Negative Results Vol. 14 Regular Issue .03 (2023) pg.2533-2540	https://doi.org/10.47750/pnr.2023.14.03.322	Scopus Indexed https://www.pnrjournal.com/index.php/home/article/view/8874/12134
18	Decision-Making Methodology In The Outbreak Of Vectors Transmitting Tropical Diseases, Using Heterogeneous Geospatial Information	B. Priyadharshini S. Sathya Anju Asokan, R.Shalini	Int. Journal	Journal of Pharmaceutical Negative Results Vol. 14 Regular Issue .02 (2023) pg.1813-1822	https://doi.org/10.47750/pnr.2023.14.02.226	Scopus Indexed https://www.pnrjournal.com/index.php/home/article/view/7628/10089
19	Neural Network Predictive Controller For Temperature Process Station	V Nagaraju, T. Sathish Kumar , Narige Kiran, Pappula Ashok	Int. Journal	Journal of Pharmaceutical Negative Results Vol. 13 SPECIAL ISSUE 09 (2022) pg. 8112-8122.	https://doi.org/10.47750/pnr.2022.13.S09.948	Scopus Indexed https://www.pnrjournal.com/index.php/home/article/view/6223/7917

20	Face-To-Face with AI and the Digital Revolution are the Global Financial Exchanges	Dr.K.Sandhyarani R. Dharmaprakash S.Sathya Naveenkumar Anbalagan	Int. Journal	Eur. Chem. Bull. Vol.12 (Special Issue 7), pg.5424-5432	doi: 10.4804 7/ecb/20 23.12.si 7.475	Scopus Indexed https://www.eurchembull.com/issue-content/face-to-face-with-ai-and-the-digital-revolution-are-the-global-financial-exchanges-10111
21	An outline of the use of AI Technology and the Technologies it Powers in the Indian Financial Services Sector	N.Rajavinu, R. Dharmaprakash, Naveenkumar Anbalagan	Int. Journal	Eur. Chem. Bull Vol.12, No.8 pg.5601-5614	doi: 10.4804 7/ecb/20 23.12.8. 445	Scopus Indexed https://www.eurchembull.com/issue-content/an-outline-of-the-use-of-ai-technology-and-the-technologies-it-powers-in-the-indian-financial-services-sector-9891
22	Angular Stability Enhancement of Grid Integrated Wind Energy Using PSO to Optimize PSS	S. Kamalakannan	Int. Conf	International Engineering research Conference 2022	doi: 10.1088/1742-6596/25 23/1/012 017	Scopus Indexed https://iopscience.iop.org/article/10.1088/1742-6596/2523/1/012017

Product Development

Academic Year -2022-2023

S. No	Title of the Project	Name of student & Register number	Name of the guide	Industry / In house	Justification	Details of the project
1.	Borewell rescue bot	B.Gokul 11191910 5003	Dr.G.Rohini	In house	Received grant from TNSCST Received best paper award	
2.	Voice Recognized Keyless Electric bike	S.Keerthikumar	Dr.S.Sendil Kumar	In house	best paper award Project published in patent Application Number : 202341049750	
3.	E-Bike With Regenerative Charging	P.Dinesh Kumar P 11191910 5002	Mrs.J.Megala	In house	Received best paper award Project published in patent Application Number: 202341049764	

4.	Smart Oxygen Ventilator For Covid Patients	M.Magesh & 11191910 5305	Mr.S.P.Alex prabu	In house	Published in Patent Application Number : 2023410528 42	 A photograph showing two men in a laboratory or workshop setting. They are looking at a prototype of a smart oxygen ventilator. The device consists of a white, bulb-like reservoir connected to a wooden frame with various electronic components and tubes. One man is holding a smartphone, possibly displaying data or a control interface related to the device.
----	--	--------------------------	--------------------------	----------	---	---