E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

(Accredited by NAAC with 'A++' Grade)

Email: principal@egspec.orgwebsite: www.egspec.orgPh: 04365-251112

DEPARTMENT OF BIOMEDICAL ENGINEERING

List of Research Paper Publication

Year	SCI	SCOPUS	Total
2015	5	0	5
2017	0	1	1
2019	3	1	4
2020	3	1	4
2021	5	4	9
2022	0	4	4
2023	5	2	7
2024	1	5	6
2025	2	0	2
Grand Total	**24**	**18**	**42**

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List of Research Paper Publication

S. No	Name of the Authors	Title of the paper published	Journal	Volume Issue No	Impact factor/ Journal type	Online link	Year	ISBN No	Google Scholar ID
1.	Dr. R. Ganesan	A prompt CNN-FL model based on multi criteria for a smart vertical handoff in heterogeneous system	International Journal of Intelligent Unmanned Systems	8 & 4	SCI	doi: 10.1108/ijius-02-2019-0014 /full/htmlhttps://www.emerald.com /insight/content/	2020	2049-6427	https://scholar.google.com/citations?hl=en&user=zh04ntsAAAAJ
2.		Monitoring and sensing COVID-19 symptoms as a precaution using electronic wearable devices	International Journal of Pervasive Computing and Communications	16 & 4	SCI	https://www.emerald.com/insight/content/dor10.1108/yjpcc-06-2020-0067/full/html?skipTracking=true	2020	1742-7371	

3.		Automatic Facial Emotional Valence Detection System Modelling Using Crafted Features and Deep Neural Network	Journal of Medical Imaging and Health Informatics	11 & 6	SCI	https://www.ingentaconnect.com/contentone/asp/jmili/2021/00000011/00000006/art00007	2021	2156-7018	
4.		Experimental Investigation on Geo Polymer Concrete Cubes with Ambient and Sunlight Curing	Journal of Physics: Conference Series	19 & 7	SCOPUS	hittps://iopscience.iop.org/article/10.1088/1742-6596/1964/7/072001	2021	1742-6596	
5.		A general study of light gauge steel building–case study	Journal of Physics: Conference Series	19 & 7	SCOPUS	_hittps://iopscience.iop.org/article/10.1088/1742-6596/1964/7/072004	2021	1742-6596	
6.		Comparative studies on colour and COD removal of reactive dyes by a novel steel scrap as a catalyst with conventional fenton process	RevistaGeintec-Gestao Inovacao E Tecnologia	11 & 4	SCOPUS	https://pubs.aip.org/aip/acp/article-abstract/2822/1/020108/2921247/Comparative-studies-on-colour-and-COD-removal-of?	2021	223 7-0722	
7.		Design and Development of 3D Brain MRI System Using Deep Neural Networks	Journal of Medical Imaging and Health Informatics	11 & 10	SCI	https://www.ingentaconnect.com/contentone/asp/jmihi/2021/00000011/00000010/art00015	2021	2156-7018	
8.		Modified distributed energy efficient clustering protocol for	International journal of health sciences	6	SCOPUS	https://www.researchgate net/publication/363422729_Modified_distributed_	2022	2550-696X	

		lifetime maximization in wireless sensor networks				energy_efficient_clustering_protocol_for_lifetime_maximiza			
9.		Comparative study of organic coagulants in water treatment	ECS Transactions	107 & 1	SCOPUS	https://iopscience.iop.org/article/10.1149/10701.7997ecst/pdf	2022	1938-6737	
10.		A hybrid segmentation and classification techniques for detecting the neurodegenerative disorder from brain Magnetic Resonance Images	Multimedia Tools and Applications	81 & 20	SCOPUS	https://openurl.ebsco.com/EPDB%3Aged%3A5%3A12411749/detailv2?	2022	28801-28822	
11.		Segmentation of Mammogram Abnormalities Using Ant System based Contour Clustering Algorithm	Periodico di mineralogia	91&4	SCOPUS	DOI:10.34028/iajit/20/3/4	2023		
12.		The International Arab Journal of Information Technology	The International Arab Journal of Information Technology	44&3	SCOPUS	https://www.techscience.com/csse/v44n3/49161/pdf	2022	2382-2381	
13.		Design and Development of 3D Brain MRI System Using Deep Neural Networks	Journal of Medical Imaging and Health Informatics,	11&10	SCI	https://doi.org/10.1166/jmihi.2021.3855	2021	2653-2659(7)	

14.		Survey on compact dual – Band stop frequency selective surface for shielding application	Science Direct	47&1	SCI	https://doi.org/10.1016/j.matpr.2021.04.597	2021		
15.	Dr.M.Malathi	Glaucoma disease detection using stacked attention U-Net and deep convolutional neural network	Journal of Intelligent & Fuzzy systems	45 & 1	SCI	hittps://content.iospress.com/ articles/journal-of-intelligent-and-fuzzy-systems/ifs230659	2023	1875-8967	https://scholar.google.com/citations?hl=en&user=hpbrXvQAAAAJ
16.		Colon cancer stage detection in colonoscopy images using YOLOv3 MSF deep learning architecture	Biomedical Signal Processing and Control	80 & 72	SCI	ttps://www.sciencedirect.com/science/ article/abs/pu/S1 7468094220073 76	2023	1746-8108	
17.		Multimode Textile Array Antenna for Millimeter Wave Wearable Applications	Journal of Communications	17 & 11	SCI	https://www.jocm.us/show-2 78-1839-1.btml	2023	1796 - 2021	
18.	Dr. R. Venkatesan	Optimization of Double-Gate Carbon Nanotube FET Chaeacteristics for Short Channel Devices	Recent Patent on Nanotechnology, Bentham Science Publishers	ONLINE	SCI	https://pubmed.ncbi.nlm.nih.gow/ 37904555/	2023	2212-4020	https://scholar.google.com/citations?hl=en&user=7JU7Q6cAAAAJ
19.		Simulation studies on effect of CNT physical parameters on carbon nanotube thin-film transistors (CN-TFTS)	ISSS Journal of Micro and Smart Systems Springer nature		SCOPUS	https://doi.org/10.1007/s41683-019-00045-x(0123456789().,-volV)(0123456789().,-volV)	2019	2509-7989	
20.		Fabrication with	Recent	20&1	SCI	https://www.eurekasel	2025	2212-	

		Characterization of Single-Walled Carbon Nanotube Thin Film Transistor (CNT-TFT) by Spin Coating Method for Flat Panel Display	Patent on Nanotechnology ,Bentham Science Publishers			ect.com/article/146088		4020	
21.		Optimization of CNT and TFT Parameters for Maximum Transconductance and Safe Temperature Operation of Carbon Nanotube Thin-Film Transistors (CNT-TFTs) Employed in Flat Panel Displays	Transactions on Electrical and Electronic Materials Springer nature	22&47	SCI	https://doi.org/10.1007/s42341-020-00216-w	2020	2092-7592	
22.		A Potential Approach for Employer Depression Prediction Using Machine Learning Algorithms	Journal of Transportation Systems Engineering and Information	295-307	SCOPUS	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=EqX-5BgAAAAJ&sortby=pubdate&citation_for_view=EqX-5BgAAAAJ:UeHWp8X0CEIC	2024		
23.		Influence of film thickness on structural and optical properties of nanocrystalline tellurium films	Journal of Optoelectronics and Advanced Materials	782-787	SCOPUS	https://joam.inoe.ro/articles/influence-of-film-thickness-on-structural-and-optical-properties-of-nanocrystalline-tellurium-films/	2024		
24.	Dr. A. Sundar Raj	Improvement of Life Time for Wireless Body Sensor Networks	Journal of Intelligent & Fuzzy Systems	44 &2	SCI	https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs221172	2023	1673-1690	https://scholar.google.com/citations?hl=en&user=1Tt0kqsAAAAJ

		using Optimal Clustering and Routing Protocol							
25.		Synchronized Optimization of Smart Home Appliance Scheduling and Cost-Effective Energy Management Using Harris-Hawks Algorithm in Smart Grids	International Conference for Technological Engineering and its Applications in Sustainable Development (ICTEASD)		SCOPUS	https://ieeexplore ieee org/document/10585020	2024	979-8-3503-3648-1	
26.		A Efficient Approach of Image Stegnorgrapy Using Advanced Encryption System and Deep Neural Network	Third International Conference on Distributed Computing And Electrical Circuits and Electronics (ICDCECE)		SCOPUS	https://ieeexplore.ieee.org/ document/ 10548443	2021	979-8-3503-1861-6	
27.		Lifetime Maximizing Dynamic Energy Efficient Routing Protocol with Mimo For Energy Efficient Informationtransmission in The Sensor Networks	Caribbean Journal of	53&2	SCI	https://www.researchgate.net/publication/340051700_lifetime_maximizing_dynamic_energy_efficient_routing_protocol_with_mimo_for_energy_efficient_information_transmission_in_the_sensor_networks	2019	0008-6452	

			Science						
28.		Energy efficient routing algorithm in wirelessbody area networks for smart wearablepatches	ScienceDirect	153	SCI	https://www.sciencedirect.com/science/article/abs/pii/S0140366419315373	2020		
29.		Heterogeneous Multi-Hop Energy Routing Protocolwith Ant Bee Fuzzy Clustering Process in WirelessNetwork	Journal of Computational and Theoretical Nanoscience	14	SCOPUS	https://doi.org/10.1166/jctn.2017.6739	2017	4320-4325(6)	
30.		Multiple input and multiple output and energy-aware peering routing protocol for energy consumption in sensor networks	International Journal of Communication system		SCI	**https://doi.org/10.1002/dac.4267**	2019		
31.		An queueing model withimproved delay sensitive medical packettransmission scheduling system in e-healthnetworks	Journal of Ambient Intelligence and Humanized Computing	12	SCI	https://link.springer.com/article/10.1007/s12652-020-02756-8	2021	3493–3504	
32.	Dr. S. Chitra	Miniaturization and Bandwidth Enhancement of Multi Band Slot Antenna For Mobile Applications”	International Journal of Research in Information Technology (IJRIT)	3&2	SCI		2015	2001-5569	
33.		Design of High Isolation Ku Band Microstrip Array	International Journal of Research in	3&2	SCI		2015	2001-5569	

		Antenna	Information Technology (IJRIT)						
34.		A Compact Open Ended Slot Antenna for Multiband Operations	International Journal of Applied Engineering Research,	10&51	SCI	httpwww.ripublication.comijaer.htm	2015	0973-4562	
35.		Design of 32 Patch High Isolation Antenna	International Conference on Innovative Research in Electrical Sciences	10&51	SCI	httpwww.ripublication.comijaer.htm	2015	0973-4562	
36.		Establishing Private Network Over Public Infrastructure Using Multi-Protocol Label Switching Technology Over Ipv6	International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE)	4&1	SCI		2015	2278 – 909X	
37.		Improvement Of Life Time for Wireless Body Sensor Networks Using Optimal Clustering and Routing Protocol Journal of Intelligent & Fuzzy Systems	Journal of Intelligent & Fuzzy Systems 44 (2023)		SCOPUS	https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs221172	2023	1064-1246	
38.		A robust chronic obstructive pulmonary disease classification model using dragonfly optimized kernel	Scientific Reports		SCI	https://doi.org/10.1038/s41598-025-02952-6	2025	18702 (2025)	

		extreme learning machine							
39.		Photovoltaic Solar Panels in Offshore and Rooftop Applications	international Conference for Technological Engineering and its Applications in bSustainable Development (ICTEASD) IEEE		SCOPUS	https://ieeexplore.ieee.org/ document/ 10584923	2024	979-8-3503-3647-4	
40.		Polymer Sensor T-Shirt for Sleeping Disordered Breathing Patient Monitoringusing Iot Technology	Journal of Xidian University	14 & 5	SCOPUS	https://doi.org/10.37896/jxu14.5/528	2020	1001-2400	
41.	S. Jim Hawkinson	A Efficient Approach of Image Stegnorgrapy Using Advanced Encryption System and Deep Neural Network	Third International Conference on Distributed Computing And Electrical Circuits and Electronics (ICDCECE),	1-7	SCOPUS	https://1eeexplore.ieee.org/ document/ 10548443	2024	79-8-3503-186 1-6	https://scholar.google.com/citations?hl=en&user=7oCRMqoAAAAJ
42.		Optimizing WSN Network Lifetime with Federated Learning–Based Routing	International Journal of Communication Systems	38&24	SCI	https://doi.org/10.1002/dac.6117	2024	6117	