



Department of ECE Staff Publication List Calendar Year:2023

Sl. No	Publication details (Authors, Title, Journal, Volume, Issue, Pages, Year, ISSN, (DOI) etc.	Impact factor (SCI)	SCI/Scopus	Total Citation
1	R. Mahalakshmi , V. Prasanna Srinivasan , S. Aghalya and D. Muthukumaran, “Prediction of Link Failure and Optimal Route in MANET-IoT using Fuzzy Linear Regression” Intelligent Automation and Soft Computing, . vol.36, no.2, Jan 2023 https://file.techscience.com/files/iasc/2023/TSP_IASC-36-2/TSP_IASC_32709/TSP_IASC_32709.pdf		Scopus	1
2	G. Murugesan, J. Jeyapriya , M. Hemalatha and S. Rajeshkannan ,” Faster Region Based Convolutional Neural Network for Skin Lesion Segmentation”, Intelligent Automation and Soft computing, Jan 2023 https://doi.org/10.32604/iasc.2023.032068		Scopus	0
3	Devipriya S., Martin Leo Manickam J. & Victoria Jancee B. ,” Energy-efficient semi-supervised learning framework for subchannel allocation in non-orthogonal multiple access systems”, ETRI Journal, VOL 3, ISSUE 11,Jan 2023, https://doi.org/10.4218/etrij.2022-0251 .	1.622	SCI	0
4	V. L. Raja, A. M. Senthil Kumar, K. Shantha Kumari, R. Bharanidharan , Ezhilarasi.P, S.Rajeshkannan,T. M. Nithya ,and S. Venkatesh Kumar, “Analytical and Neural Network Analysis on Flux-Coated Aluminium Alloy by Activated TIG Welding with Synthesized Nanocomposites”, Journal of Nanomaterials, Article ID 3657314, 11 pages, Feb 2023 https://doi.org/10.1155/2023/3657314		Scopus	0
5	N. ShanmugaVadivu , Youssef Trabelsi , J. RoopaJayasingh , Rajeshkannan S , MojtabaHosseinzadeh Sani ,” A novel design of all logic gates in honeycomb photonic crystal and independent of polarization modes (TE/TM) for optical integrated circuit applications”, Optics and Lasers in Engineering, 161(2023) 107345, Feb 2023 https://doi.org/10.1016/j.optlaseng.2022.107345	5.66	SCI	1
6	Jasmine Mystica, K., Martin Leo Manickam, J. ,” Joint Power and Temperature Aware Routing for implant wireless body area networks” International Journal of Communication Systems, Feb 2023, https://onlinelibrary.wiley.com/doi/10.1002/dac.5449	1.882	SCI	0
7	Saravanan, A., Thirumurugan, P., Rajeshkannan, S. , Sridhar.S, ” Effect of corn cob carbon quantum dots and areca husk	4.050	SCI	0



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8	Ashok C and Venkateswaran N,” An Improved Polynomial Rooting-based Method for Solving Non-Trivial Ambiguity in Direction-Finding using an Unfolded Co-prime Linear Array”, Signal, Image and Video Processing, vol.17,pp, 219–226, Feb 2023. https://doi.org/10.1007/s11760-022-02224-0	1.583	SCI	0
9	K.P. Swain, N. Shanmugavadivu, B. Vasudevan , S.K. Sahu and G. Palai, ‘Realization of Corona-Virus testing kit using the combination of triangular structure and 412 nm (violet) laser beam” Lasers in Engineering , Volume 54, Number 4-6 (2023), April 2023	0.753	SCI	0
10	Jaspine K, Shirley Selvan , “ Multiclass CNN based classification for the diagnosis of brain MRI Images “, Biomedical Signal Processing and Control ,Vol 82, 104542, April 2023, https://doi.org/10.1016/j.bspc.2022.104542	5.076	SCI	4
11	D. Surrya Prakash, V. Rajangam, Joby Joseph, S. Rajeshkannan , E. Shankar, Anitha Gopalan, Pravin P. Patil, Subash Thanappan,” synthesized Nanoaluminum Oxide with Al ₂ O ₃ to Investigate Wear Behavior by Grey Relational Approach and ANN”, Journal of Nanomaterials, vol. 2023, Article ID 9788451, April 2023 https://doi.org/10.1155/2023/9788451		Scopus	0
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15	G.Brindha , P.Ezhilarasi , Topology driven cooperative self scheduling for improved lifetime maximization in WSN, Computer Systems Science & Engineering. 2023 DoI : 10.32604/csse.2022.027329 https://techscience.com/csse/v45n1/49297/pdf		Scopus	0
16	S. Gomathi, J. Sivapriya, M. Kalaiyarasi, J. Sivakumar , S. Jaanaa Rubavathy, Atul Kumar, (2023) "Analysing the performance ceiling of RbSnGeI3based leadfree stable perovskite solar cell" Optical and Quantum Electronics, Vol. 55: Issue 734, June 2023 https://doi.org/10.1007/s11082-023-04980-w .	2.794	SCI	0
17	C. Narmadha , R. Muthuselvi , P. Somasundari , G. Sivagurunathan , Malini K V , Sathishkannan," Cloud-based Detection of Malware and Software Privacy Threats in Internet of Things using Deep Learning Approach", International Journal of Electronics and Communication Engineering, Volume 10 Issue 4, 21-30, July 2023 https://doi.org/10.14445/23488549/IJECE-V10I4P103		Scopus	
18	Dr.R. Niruban , R.Deepa, " Graph neural network-based remote target classification in hyperspectral imaging", International Journal of Remote Sensing, Vol 44, Issue 14, pp. 4465–4485, https://doi.org/10.1080/01431161.2023.2237661	3.4	SCI	1
19	Hezekiah, James D K, K C Ramya, Sathya Bama K, Vishnu Murthy K, Malathi D, Avudaiammal R , and R Maheswar. ,"Review of Next-Generation Wireless Devices with Self-Energy Harvesting for Sustainability Improvement", Energies, MDPI 16, no. 13: 5174. https://doi.org/10.3390/en16135174 .	3.2	SCI	
20	Gopu Venugopal a , Arun Kumar Udayakumar b , , Nutan Saha c , Anushkannan Nedumaran Kalavathy d , Adhavan Balashanmugham e , Vasudevan B , "Augmented energy transformative intrinsic algorithm based improved power quality	4.3	SCI	0



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22	G.Anitha, J.Martin Leo Manickam, Surapeneni Krishna Mohan,” Enhanced stacking ensemble Model: A statistical ensemble pruning framework to classify anxiety severity for responsive emergency preparedness”, Journal of Biomedical Signal Processing and Control, Vol:87 Part A Oct 2023 https://doi.org/10.1016/j.bspc.2023.105523 .	5.1	SCI	
23	P.N. Renjith, G.Sujatha, M.Vinoth, G.D.Vignesh, M.Ramkumar Prabhu, B.Mouleswararao,” Deep reinforcement learning for comprehensive route optimization in elastic optical networks using generative strategies”, Optical And Quantum Electronics, Volume55 Issue13, November 2023,	2.084	SCI	
24	Chillakuru, P.D., Vignesh, G.D., Maheswari,S.,Mouleswararao, B., ,” Adaptive rate and modulation scheme for M2M communication using quantum optical and 5G communication”, Optical And Quantum Electronics, 2023, 55(11), 1021, October 2023	2.084	SCI	
25	Subudhi, S., Dabhade, R.G., Shastri, R., ... Vignesh, G.D., ,” Empowering sustainable farming practices with AI-enabled interactive visualization of hyperspectral imaging data”, Measurement: Sensors, Volume 30, November 2023, 100935,		Scopus	
26	R. Deepa, T. Sree Sharmila , R. Niruban, ” Dynamic graph neural network-based computational paradigm for video summarization”, Multimedia Tools and Applications, Dec 2023. https://link.springer.com/article/10.1007/s11042-023-17412-4	3.6	SCI	
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29	Thendral. N, Lakshmi. D, ” Transfer Learning Supported Accurate Assessment of Multiclass Cervix Type Images”, Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, https://journals.sagepub.com/doi/10.1177/09544119221143441	1.8	SCI	
30	Avudaiammal.R, Madhavan.J, Venkatesan.K, Rahayu.S.B,” Intrinsic and extrinsic approaches to mitigate FWM”, Optoelectronics and Advanced Materials - Rapid Communications, 17(11-12), Dec 2023 https://oam-rc.inoe.ro/articles/intrinsic-and-extrinsic-approaches-to-mitigate-fwm/fulltext		Scopus (SCI-yet to be indexed)	



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2	RajeshKannan, S. , Rajagopalan, V.G., Ramakrishnan, H.,Sibi Selvan, S., Krishnamithran, S," Design and Implementation of Efficient IoT-Based Smart Oil Skimmer", Lecture Notes in Electrical Engineering, 957,pp. 393-409,March 2023 https://link.springer.com/chapter/10.1007/978-981-19-6913-3_26		WOS
3	Latha. P; Rakshith. R. K; Pavankumar. C; Kaviyarasan. K," I-SPMS: IoT-Enabled Novel Smart Parking Management System with Load cell Deployment", 2023 International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), April 2023. https://doi.org/10.1109/ICECONF57129.2023.10083800		Scopus
4	Rajesh Kannan.S, Ezhilarasi. P , Rajagopalan. V.G., Ramakrishnan. H., Balaji, H.K.," Integrated AI Based Smart Wearable Assistive Device for Visually and Hearing-Impaired People", ICRTEC 2023 – Proceedings: IEEE International Conference on Recent Trends in Electronics and Communication: pp. 1-6, (May2023) doi:10.1109/ICRTEC56977.2023.10111863		Scopus
5	Gupta, S., Naidu, P.C.B., Kuppan, V., Alagumeenaakshi, M., Niruban, R. , Swaminathan, J.N., "Analysis of various Toxic gas Levels using 5G ML-IoT for Air Quality Monitoring and Forecasting",		Scopus



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6	Avudaiammal,R. , Rajangam,V., Swarnalatha,A Nancy, P.S., Pavithra, S.,” Investigation on Performance of CNN Architectures for Land Use Classification”, Lecture Notes in Electrical Engineeringthis link is disabled, 2023, 966 LNEE, pp. 261–271		Scopus
7	Jaspin, K., Selvan, S. ,” Automated Classification of MR Brain Images based on Transfer Learning Approach”,Intelligent Computing and Control for Engineering and Business Systems, ICCEBS 2023		Scopus
8	Ashok C , Vaddi Lakshmi Satya Sai Sarojini, Venkateswaran N, “Direction-Of-Arrival Estimation of Multiple Closely Spaced Signals using MVDR-CSVR Approach”, in proceedings of International Conference on Power of Artificial Intelligence and Machine Learning for Human Empowerment –IETE Chencon 2022, May 20 & 21, 2022.		Scopus
9	Venkatesan K. , Chandrasekar A., Ramesh P.G.V. “Performance Analysis of Fiber-Optic DWDM System”. Presented In Virtual International Conference on Futuristic Communication and Network Technologies VICFCNT– 2021 Futuristic Communication and Network Technologies. Lecture Notes in Electrical Engineering (Springer-Scopus) Final Proof editing with copyright form submitted		Scopus
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12	B.Vasudevan , Vignesh Karuppasamy D.M , Uppuliappan M,”Artificial Intelligence (AI) Based Interactive Smart Robot for Elderly People Health Monitoring System”, 2023 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI) https://doi.org/10.1109/ACCAI58221.2023.10201135		Scopus
13	Noorul Julaiha A.G , B.Vasudevan , Ruhit Krishna M, Suriya M.S,” Fusion of Images to Detect Brain Tumors Using DWT, IDWT and VGG19 Algorithms”, 2023 – 5 th International Conference on inventive research in computing application (ICIRCA), https://doi.org/10.1109/ICIRCA57980.2023.10220788		Scopus
14	Akila, T., Menaka, M., Vasanth, P., Victoria Jancee , B.,” Forecasting Naturally Occurring Forest Fires using AI and Machine Learning in Wireless Sensor Networks”, Proceedings of the 5 th International Conference on Inventive Research in Computing Applications, ICIRCA 2023, 2023, pp. 498–502		Scopus
15	Loganathan, S., Victoria Jancee , B., Senkamalavalli, R., Subbu Lakshmi, T.C.,” Gray Wolf Optimization Algorithm to Enhance Data Aggregation in Wireless Sensor Network”, Proceedings of the 5 th International Conference on Inventive Research in Computing Applications, ICIRCA 2023, 2023, pp. 1164–1169		Scopus
16	Jancee , B.V., Kalaiselvi, S., Muthukumaran, K., Bhaskar, K.V.,” Vampire Attack Detection by Applying Support Vector Machine Algorithm in Wireless Sensor Network”, Proceedings of the 2 nd International Conference on Edge Computing and Applications, ICECAA 2023, 2023, pp. 213–217		Scopus



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18	Stella, I.J., Jancee, B.V., “Investigations on Channel Characteristics and Range Prediction of 5G mmWave (39 GHz) Wireless Communication System”, Lecture Notes in Networks and Systems, this link is disabled, 2023, 689 LNNS, pp. 385–399, 2023, 689 LNNS, pp. 385-399,		Scopus
19	P. Thilagavathi; J. Martin Leo Manickam, ” Circumcenter Based Mobile Beacon Aided Localization in Wireless Sensor Networks”, 2023 3 rd International Conference on Pervasive Computing and Social Networking (ICPCSN), 1107-1111, Oct 2023		Scopus
20	S. Indhumathi ; S. Aghalya ; Smitha J. A., Presitha Aarthi.M.,” IoT-Enabled Weather Monitoring and Rainfall Prediction using Machine Learning Algorithm”, Proceedings of the 2023 2 nd International Conference on Augmented Intelligence and Sustainable Systems, ICAISS 2023, 2023, pp. 1491–1495		WOS
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27	E.Malarvizhi, G.Elavel,Visuvanathan,Tholkapiyan,S.P arthasarathy,” IoT Monitoring Scheme in Solar-based Motor Drive for Water Pump Applications”, 2023 2nd International Conference on Edge Computing and Applications (ICECAA)		Scopus
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