



Department of ECE Staff Publication List Calendar Year:2022

Sl. No	Publication details (Authors, Title, Journal, Volume, Issue, Pages, Year, ISSN, (DOI) etc.	Impact factor (SCI)	SCI/Scopus	Total Citation
1	P. Latha, M. A. Bhagyaveni, S.R.Preethi, S. Simcy, "Reconfigurable Soc Architecture For Wireless Video Surveillance", In Journal Of Theoretical And Applied Information Technology, Vol 100, Issue 03 February 15, 2022.		Scopus	0
2.	Balamurugan, A.M., Karthikeyan, B. & Farmani, H., et.al., Nanoscale graphene plasmonics logic gate based on the plasma dispersion effect. Opt Quant Electron 54, 259 (2022). https://doi.org/10.1007/s11082-022-03660-5 (March 2022).	2.084	SCI	0
3	Esther Gandhimathi, Swarnalatha A. Sowmya, " Spectrum resource optimization in elastic optical networks using dynamic RMSA", <i>Opt Quant Electron</i> , 54, 260 https://doi.org/10.1007/s11082-022-03642-7 , March 2022	2.084	SCI	0
4	S.Rajesh Kannan, J.Sivakumar, P.Ezhilarasi, "Automatic detection of COVID-19 in chest radiographs using serially concatenated deep and handcrafted features" Journal of X-Ray Science and Technology, In Press pp. 1-14, March 2022. DOI: 10.3233/XST-211050 https://pubmed.ncbi.nlm.nih.gov/34924434/	1.535	SCI	4
5	R.Avudaiammal , Sam V George, Hybrid ML Modeling for MBI Based Building Detection from Satellite Imagery, GIS Science Journal , Vol.9(5), pp.664-675, 2022 ISSN NO : 1869-9391, May 2022. . DOI:20.18001.GSJ.2022.V9I4.22.39174		UGC Care	
6	R.Avudaiammal , Sam V George, Building Extraction from High Resolution Satellite Images using Pre-Trained Deep Learning Networks, GIS Science Journal , Vol.9(5), pp.1102-1108, May 2022 ISSN NO : 1869-9391, DOI:20.18001.GSJ.2022.V9I4.22.39210		UGC Care	
7	Venkatesan.K, Chandrasekhar A., and Ramesh P. G. V. "On-Demand DWDM Design Based on Transmission Requirements Using Machine Learning" Journal of soft computing Springer	3.643	SCI	0



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	SN1433-7479, (June 2022) https://doi.org/10.1007/s00500-22-07181-x			
8	Venkatesan.K, P. G. V. Ramesh, A. Chandrasekar, K.Ramachandra Reddy , “Green channel DWDM design using Optimized CFBG”, Optoelectronics and Advanced Materials - Rapid Communications. Vol. 16, No. 5-6, (May-June 2022) pp.200-208. https://oam-rc.inoe.ro/articles/green-channel-dwdm-design-using-optimized-cfbg/fulltext	0.441	SCI	0
9	Venkatesan.K. Chandrasekar A., Ramesh P.G.V. (2022) “Parametric Optimization and FWM Mitigations in 64-Channel DWDM System”. Futuristic Communication and Network Technologies. Lecture Notes in Electrical Engineering, vol 792. Springer , Singapore. https://doi.org/10.1007/978-981-16-4625-6_14 .		Scopus	0
10	R. Prabhu, B. Parvathavarthini (2022) Morphological slum index for slum extraction from high-resolution remote sensing imagery over urban areas, Geocarto International, DOI: 10.1080/10106049.2022.2086624 (June 2022)	4.889	SCI	1
11	Ashok C, Venkateswaran N, Vaddi Lakshmi Satya Sai Sarojini and Sneha Rajan , “An Unambiguous DOA Estimation Method for Coprime Array with Displaced Subarrays”, Vol. 195 , 108818 , Applied Acoustics , 30 June 2022.	2.639	SCI	0
12	Devipriya S, Martin Leo Manickam J and Anita X, “On the Outage Performance of Decode-and-Forward based relay ordering in Cognitive Wireless Sensor Networks” – July 2022 Wireless Netw 28 , 3247–3259 (2022). https://doi.org/10.1007/s11276-022-03038-1	2.602	SCI	1
13	Niruban Rathakrishnan, Deepa Raja, ” Optimized convolutional neural network based comprehensive early diagnosis method for multiple eye disease recognition”, Journal of Electronic Imaging, ISSN: 1017-9909, Vol 31, Issue 4, pp.043016-1 to 043016-21, July 2022.	0.829	SCI	2



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14.	Christo Ananth, Jasmine Mystica K , M Sridharan, Aron James, Ananth Kumar, “ An Advanced Low-cost Blood Cancer Detection System”, International Journal of Early Childhood Special Education, Vol 14 issue 5 2022, July 22, https://scholar.googleusercontent.com/scholar?q=cache:Q2tXh1XyfyAJ:scholar.google.com/+An+Advanced+Low-cost+Blood+Cancer+Detection+System&hl=en&as_sdt=0,5		ESCI	0
15	K. Aruna , S. Rajeshkannanb , P. Ezhilarasic , L. Natrayand,” A preliminary study on the reactive suspension approach to create bioactive polymer nanocomposites for dental applications”, Digest Journal of Nanomaterials and Biostructures Vol. 17, No. 3, , p. 931 – 939, Sep 2022. https://doi.org/10.15251/DJNB.2022.173.931	0.983	SCI	1
16	G.D.Vignesh , Arulmurugan Ramu, J. Thimmia Raja P.Ponmurugan Anandakumar Haldorai G. Senthilkumar, “ Sensor Data fusion techniques in the construction of generalized VORONOI graph for on-line motion planning in robot navigation” , International Journal of System Assurance and Management, Sept 2022. DOI: 10.1007/s13198-022-01773-4	0.38	ESCI	0
17	Shobhit K. Patel, Arun Kumar Udayakumar, G. Mahendran, B. Vasudevan , Jaymit Surve & Juveriya Parmar,”Highly efficient, perfect, large angular and ultrawideband solar energy absorber for UV to MIR”, Scientific Reports, Oct 2022 https://www.nature.com/articles/s41598-022-22951-1	4.996	SCI	10
18	Bhishma Karki , B.Vasudevan , Arun Uniyal, Amrindra Pal , Vivek Srivastava,” Hemoglobin detection in blood sample using a graphene-based Surface plasmon resonance biosensor”, Journal of optik, Nov 2022, https://doi.org/10.1016/j.ijleo.2022.169947	2.840	SCI	27



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1	R. Avudaiammal, K. Jasmine Mystica, K.P Ravindran ,Renjith George, "IMD Signaling Based Automated Safety Aid System for Fishermen", Virtual International Conference on Futuristic Communication and Network Technologies,792, pp. 315–323 2022		Scopus
2	R. Avudaiammal, M. S. Sowmyaa Vathsan and S. O. Sivashanmugam, " QoS-Driven AODV Algorithm for WSN"International Conference on Futuristic Communication and Network Technologies , Oct 2022.		Scopus
3	R.Avudaiammal,S.Devipriya,Dr.A.Swarnalatha,R.Vijayarajan "“ An Efficient Hybrid denoising method for remote sensing images”, International Conference on Futuristic Communication and Network Technologies , Oct 2022.		Scopus
4	S. Devipriya, J. Martin Leo Manickam and K. Jasmine Mystica, “ A Deep-Learning Based Approach to Resource Allocation in NOMA Based Cognitive Radio Network with Heterogeneous IoT Users”, pp.1-6, June 2022 DOI: 10.1109/ICDCECE53908.2022.9793269		Scopus
5	G Anitha, J Martin Leo Manickam, G.Balakrishnan and G.Sathyakumar, “Machine Learning based non-invasive method of determining total body water”, International conference on Communication and Electronics Systems, India, 22-24 July, 2022. https://ieeexplore.ieee.org/document/9835855		Scopus
6	Pearline sheeba grace, Ezhilarasi. P, “ Enhanced Marker-Controlled Watershed Segmentation Algorithm For Brain Tumor Segmentation”,		Scopus



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	Communications in Computer and Information Science, Springer volume 1579, pp. 154–166 , July 2022.		
7	Dr. D. Lakshmi “ A Novel Implementation of Esophagus Diagnosis Using Deep Learning” ICACITE 2022, August 2022 https://ieeexplore.ieee.org/document/9823457		Scopus
8	Vijayarajan R, Shani S. Kumar, Sathiya Narayanan, Sangeetha N., Avudaiammal R. , Medical Image Encryption Using Distance-Based Biokey Generation”, IGI Global Platform, August 2022 DOI: 10.4018/978-1-6684-4558-7.ch009		Scopus
9	K. Karthikayani; G. Elumalai; K. Jeyapiriyaa; S. Sree Southry; S. Gayathri; A. M. Balamurugan, ” Performance analysis of various segmentation algorithms for microarray images”, <i>AIP Conference Proceedings</i> 2518, 070001 (2022), Volume 2518, Issue 1, 28 September 2022, https://doi.org/10.1063/5.0103474		Scopus
10	K. Jaspin, Shirley Selvan , Princy Salomy Packianathan , Preetha Kumar ,” Convolution Neural Network Based Classification of Plant Leaf Disease Images”, Lecture Notes in Electrical Engineering, volume 925, Sep ,2022 https://link.springer.com/chapter/10.1007/978-981-19-4831-2_42		Scopus
11	K. Karthikayini, S. Uma Maheswari, T. Vennila, S. Rajesh, S. B. Viswanath, and S. Vinayagapriya. ,” Attractive image artifacts suppression in color transfer image”, <i>AIP Conference Proceedings</i> , Volume 2518, Issue 1 Sep 2022 https://doi.org/10.1063/5.0103477		Scopus
12	Jasmine Mystica, K., Martin Leo Manickam, J., Devipriya, S., ” Node Temperature Aware Next Hop Selection Scheme for Implant WBAN”, 2nd Asian Conference on Innovation in Technology Oct 2022 https://ieeexplore.ieee.org/document/9909215		Scopus



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13	G. Shahana, P. Ezhilarasi and S. RajeshKannan ,” Comparison of Mamdani and Sugeno fuzzy based data aggregation models for developing smart aquaculture system”, Proceedings of the 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2022, pp. 1-8, doi: 10.1109/ICSES55317.2022.9914378 , Oct 2022		Scopus
14	D.Lakshmi,J.Sivakumar,S.Ramani , Multi-Class SVM Prediction Model for Lung Cancer Diagnosis” International Conference on Artificial Intelligence for Smart Community(LNEE), Nov 2022, https://link.springer.com/chapter/10.1007/978-981-16-2183-3_24		Scopus
15	Christo Ananth, P.Thenmozhi , Densy John Vadakkan. S. Kavitha, T.Ananth Kumar,” Artificial Intelligence based Visual Aid with Live Tracking of Visually Impaired People”, International Conference on Technological Advancements in Computational Sciences(ICTACS), Dec2022 ,DOI: 10.1109/ICTACS56270.2022.9988614		Scopus
16	Saravanan, R., Retnaswamy, S., Selvan, S. A Method of Hand Gestures Recognition using Convolutional Neural Network Lecture Notes in Electrical Engineeringthis link is disabled, 2022, 792, pp. 341–349		Scopus
17	A. N. Julaiha and B. Vasudevan , "A report on Alzheimer's disease Action and Semantical Fluency," <i>2022 8th International Conference on Smart Structures and Systems (ICSSS)</i> , Chennai, India, 2022, pp. 1-5, doi: 10.1109/ICSSS54381.2022.9782217.		Scopus
18	R Avudaiammal , S Devipriya, A Swarnalatha, R Vijayarajan,” An Efficient Hybrid De-Noising Method for Remote Sensing Images”, Futuristic Communication and Network Technologies,pp.449-459,		Scopus



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