

St. Joseph's College of Engineering
Department of ECE
Faculty Publications in Calendar Year 2021

Sl.No	Faculty Name	WoS Publications	Scopus Publications
1.	Dr. B Victoria Jancee	-	1. Victoria Jancee, B., Balamurugan, A.M., Anitha, G., "Secured Header Authentication Design using Time Competent HMAC for Optical Burst Switched Networks", Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021, pp. 311–315, 9489016
2.	Dr. J Martin Leo Manickam	P Thilagavathi, J Martin Leo Manickam ERTC: an Enhanced RSSI based Tree Climbing mechanism for well-planned path localization in WSN using the virtual force of Mobile Anchor Node, Journal of Ambient Intelligence and Humanized Computing, Vol. 12, No. 6, pp. 6665-6676, 2021	1. Thilagavathi P., Martin Leo Manickam J., Machine Learning Based Genetic Approach in RSSI Tree Climbing Path Improvisation of the Mobile Anchor's Using K-Means Clustering of Wireless Sensor Network, Modeling, Simulation and Optimization. 2021, Smart Innovation, Systems and Technologies. 2. S.Tephillah and J. Martin Leo Manickam, Identification Of Malicious User To Combat SSDF Using Trust Based Machine Learning Techniques In Cognitive Radio Networks, International Journal of Future Generation Communication and Networking, ISSN: 2233-7857, Vol. 14, No.

			<p>1, (2021), pp. 426–434</p> <p>3. Rajendran, R., Martin leo manickam, J. An optimal strategy to countermeasure the impersonation attack in wireless mesh network. <i>Int. j. inf. tecnol.</i> 13, 1033–1038 (2021). https://doi.org/10.1007/s41870-021-00680-4</p>
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3.	Dr. R Avudaiammal		<ol style="list-style-type: none"> 1. Avudaiammal R., Devipriya S., Swarnalatha A., Vijayarajan R. (2021) An Efficient Hybrid De-Noising Method for Remote Sensing Images. In: Sivasubramanian A., Shastry P.N., Hong P.C. (eds) Futuristic Communication and Network Technologies. Lecture Notes in Electrical Engineering, vol 792. Springer, Singapore. https://doi.org/10.1007/978-981-16-4625-6_44 2. Avudaiammal R., Sowmyaa Vathsan M.S., Sivashanmugam S.O. (2021) QoS-Driven AODV Algorithm for WSN. In: Sivasubramanian A., Shastry P.N., Hong P.C. (eds) Futuristic Communication and Network Technologies. Lecture Notes in Electrical Engineering, vol 792. Springer, Singapore. https://doi.org/10.1007/978-981-16-4625-6_12 3. Avudaiammal R., Jasmine Mystica K., Raveendran K.P., George R. (2021) IMD Signaling-Based Automated Safety Aid System for Fishermen. In: Sivasubramanian A., Shastry P.N., Hong P.C. (eds) Futuristic Communication and
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			<p>Network Technologies. Lecture Notes in Electrical Engineering, vol 792. Springer, Singapore. https://doi.org/10.1007/978-981-16-4625-6_32</p>
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4.	Dr. I Johnsi Stella	-	-
5.	Dr. A Swarnalatha	<ol style="list-style-type: none"> 1. Gandhimathi, S.E., Swarnalatha, A., Sowmya, B. "Spectrum Resource Utilization and Security Enhancement in Multi-domain Elastic Optic Networks (MD-EON) Using Memetic Algorithm" Wireless Personal Communications, April, 2021, 120(1), pp. 139–152, https://doi.org/10.1007/s11277-021-08438-8 2. Boopalan Senthil Murugan., Alagala, Swarnalatha. & Ramalingam, Avudaiammal.R A Memory Sparse Proportionate Affine Projection Algorithm for Echo Cancellation: Analysis and Simulations. <i>Arab J Sci Eng</i> (Oct 2021). https://doi.org/10.1007/s13369-021-06219-w 	-
6.	Dr. S Aghalya	-	-
7.	Dr. P Ezhilarasi	<p>1.G.Brindha, Dr.P.Ezhilarasi, "Topology Driven Cooperative Self Scheduling For Improved Lifetime Maximization In WSN" has received acceptance in International Journal Of Uncertainty, Fuzziness And Knowledge-based Systems with ISSN (print): 0218-4885 ISSN (online): 1793-6411</p>	<ol style="list-style-type: none"> 1. G. Brindha, Sudha Juliet, P.Ezhilarasi, T.sasilatha, An Advanced Optimized Transmission Technique for Parameter Estimation in WSNS, Solid State Technology, Volume 64, Issue: 2, pp : 6480 - 6488, 2021. https://solidstatetechnology.us/index.php/JSST/article/view/10787. 2. Pearline sheeba grace, Ezhilarasi. P, " ENHANCED MARKER-CONTROLLED WATERSHED SEGMENTATION

			ALGORITHM FOR BRAIN TUMOR SEGMENTATION", Fourth International Conference on Computational Intelligence in Communications and Business Analytics Accepted for Publication. (Wos/ scopus indexed)
8.	Dr. P Latha	-	1. Dr. P. LATHA , Dr. M. A. BHAGYAVENI, Dr.S.R.PREETHI,S.SIMCY,“RECONFIGURABLE SOC ARCHITECTURE FOR WIRELESS VIDEO SURVEILLANCE”, has been accepted for publication in JOURNAL OF THEORETICAL AND APPLIED INFORMATION TECHNOLOGY, The paper shall appear in the upcoming Vol 100 February 15, 2022 Issue 03 .
9.	Dr. Shirley Selvan	1. Kavitha C, Anita X, Shirley Selvan , Improving the efficiency of speculative execution strategy in HADOOP using Amazon Elasticache for REDIS, Journal of Engineering Science and Technology, Vol. 16, No. 6 (December 2021) 4864 - 4878 © School of Engineering, Taylor’s University	1. Shirley Selvan, J Ferin Joseph, Dinesh Raj KT, Berlyn Joseph, “Analysis and Classification of Active Sludge in wastewater”, Journal of Physics: Conference Series, 1916 (2021) 012016 IOP Publishing doi:10.1088/1742-6596/1916/1/012016). 2. Shirley Selvan, Glory Precious, Avudaiammal R, “Classification of Abnormalities in Breast Ultrasound Images Using ANN, FIS and ANFIS Classifiers: A Comparison”, Journal of Physics: Conference Series, 1916 (2021) 012015, IOP

			<p>Publishing, doi:10.1088/1742-6596/1916/1/012015</p> <p>3. Shirley Selvan, Manasa Lakshmi G, Octavia M, Pooja S, Preethi Shilpha S, "Note to Coin converter: A Survey", Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 3, June 2021: 2298-2306</p> <p>4. Shirley Selvan, Ragapriya S, Sindhu R, A Survey on Methods of Hand Gestures Recognition, Lecture Notes in Electrical Engineering 792, 341-349, November 2021</p> <p>5. K. Jaspın, Shirley Selvan, S. Sahana and G. Thanmai, "Efficient and Secure File Transfer in Cloud Through Double Encryption Using AES and RSA Algorithm," 2021 International Conference on Emerging Smart Computing and Informatics (ESCI), Pune, India, 10/04/2021, pp. 791-796, doi: 10.1109/ESCI50559.2021.9397005, April 2021</p> <p>6. Shirley Selvan, Vaishali P, K. Jaspın, Analysis of Texture Features of Normal Brain and Glioma in MRI Images, International Conference on Power of Digital Technologies in Societal Empowerment - IETE CHENCON 2021, June 4 & 5, 2021</p> <p>7. Shirley Selvan, K. Jaspın, Real Time Surveillance for Identification of Fruits Ripening Stages and Vegetables Maturation Stages with Infection Detection, ISPCC2K21, 6th IEEE International Conference on Signal Processing, Computing, and Control, (ISPCC – 2k21) 07 th -09 th October 2021</p> <p>8. Shirley Selvan, K. Jaspın, CNN based classification of Plant leaf disease images, ICAAAML 2021, October 30, 2021,</p>
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10.	Dr. A M Balamurugan	-	1. Balamurugan, A.M., Anitha, G., “Secured Header Authentication Design using Time Competent HMAC for Optical Burst Switched Networks”, Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021, pp. 311–315, 9489016
11.	Dr. S Rajeshkannan		<p>1. Rajeshkannan et al, Effective Parametric Image Sequencing Technology with Aggregate Space Profound Training, 2021, Journal of Physics: Conference Series PAPER.</p> <p>2. Suman Mishra^{1*}, S Rajeshkannan², N Mohankumar³, and T R Ganesh Babu⁴, VLSI based Implementation of Channel oriented ICA Processor for Biomedical systems, 2021, Journal of Physics: Conference Series PAPER</p> <p>3. Aishwarya Priya Pudureddiyur Manivannan, Swetha Nyniappan, Rajeshkannan Sundararajan, Saji Jacob George, Joel Jose and Joseph Winston S, Real Time Obstacle Proximity Warning Through Human Machine Interface and Quadrature Interpretation of a Two Axis Robotic Inspection System, 2021, Lecture Notes in Mechanical Engineering.</p> <p>4. Shruthi S^a, Priya dharshini^b, Ranjith Raj B^c,</p>

			Vaddi Lakshmi Satya S Sai Sarojini ^d Ezhilarasi P^e , Rajesh Kannan S^f “Anxiety Controlling Wrist Band” IOS Publisher, PP. 145-253
12.	Dr. B Vasudevan	-	1. B.Vasudevan, V.Kishore , S.Charan,” A 120 Mbps WDM based VLC system for implementation of Internet of Things” "Journal of Optical Communication" De Gruyter, 10.1515/joc-2021-0074
13.	Dr. J Sivakumar		1. Anandakumar Haldorai, Manishi Shakya, K. Chanthirasekaran, J. Sivakumar, Ram Subbiah, Shanavas. TN, Intelligent exploration strategy for a mobile robot to reduce the repeated searches in an unknown environment. Nat. Volatiles & Essent. Oils, 2021; 8(5): 1479 - 1687 2. 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, 2021 DOI: 10.3233/XST-211050
14.	Dr. S Vinayagapriya	-	-
15.	Dr. R Niruban	-	1. Raji Pandurangan, Mudhar Mustafa Al.Najjar, Anandakumar Haldorai, J. Siva Ramakrishna, R.Niruban, Ram Subbiah , Avoiding static and dynamic obstacles and various other challenges in path planning process of robot navigation, Nat. Volatiles & Essent.

			Oils, 2021; 8(5): 1488 - 1500
16.	Dr.D.Lakshmi	-	-
17.	Mrs.E Malarvizhi	-	-
18.	Mrs.P.Thenmozhi	1. P.Thenmozhi, Leukemia Blood Cancer Detection Using MATLAB, Turkish Journal of Physiotherapy and Rehabilitation, vol 32, issue 3, page no.10257-10261, 2021, July.	-
19.	Mr.K. Ramachandra Reddy	1. Ramachandra Reddy Konda , Narmadha Thirunavvukkarasu Velayudham, and Ramesh Ponukara Govindaswamy Venkatesan Performance study of randomly coupled erbium-doped fiber amplifier using machine learning, Optical Engineering, July 2021 • Vol. 60(7). 2. Ramachandra Reddy Konda , Narmadha Thirunavvukkarasu Velayudham, and Ramesh Ponukara Govindaswamy Venkatesan Performance analysis of coherent free-space optics transmission link using in-phase quadrature modulator-based polarization multiplexed-256-quadrature amplitude modulation, <i>Trans Emerging Tel Tech.</i> 2021;e4262.	-
20.	Mr. K. Venkatesan	1. Venkatesan.K P.G.V Ramesh, A.Chandrasekhar, Theoretical investigation for optimization of fwm effects for 1tb/s ultra-band dwdm system optoelectronics and advanced materials – rapid communications sci, vol. 15, no. 3-4, march-april 2021, p. march april 2021. 2. Venkatesan.K P.G.V Ramesh, A.Chandrasekhar, Supervised regression modelling for mitigation of	

		four-wave mixing in dense wavelength-division multiplexing systems Ukrainian Journal of Physical Optics m, SCI Jan 2021, 12-30. DOI:10.3116/16091833/22/1/12/2021.	
21.	Mrs.G.Anitha	-	1. G.Anitha , Paroma Roy, Nashita “ E-SEEK - RFID based Detection System for Localizing the Misplaced Objects” 6th International Conference on Communication and Electronics Systems, ICCES 2021, 8 July 2021, Article number 9488933, Pages 989-993.
22.	Dr.R.Parthasarathy	1. Parthasarathy Ramanujam, Manimaran Ponusamy, Krishnamurthy Ramanujam, A Compact wide-bandwidth Antipodal Vivaldi Antenna Array with Suppressed Mutual Coupling for 5G mm-wave Applications, AEU-International Journal of Electronics and Communication, Elsevier, 133, May 2021, 153668, https://doi.org/10.1016/j.aeue.2021.153668 2. Parthasarathy Ramanujam, Krishnamurthy Ramanujam, Manimaran Ponusamy A novel asymmetrical interdigital coupled line-based penta-band bandpass filter design with enhanced selectivity employing square complementary split ring resonator, International Journal of RF and	-

		<p>Microwave Computer Aided Engineering, e22888, August 2021, https://doi.org/10.1002/mmce.22888.</p> <p>3. Parthasarathy Ramanujam, Gnanasivam Pachaiyappan, Design of low profile co-axial fed high gain stacked patch antenna for Wi-Fi/WLAN/Wi-Max applications, Frequenz- RF and Telecommunication Engineering, Degruyter, 27-34, January 2021, DOI: https://doi.org/10.1515/freq-2020-0021</p>	
23.	Mrs.R.Madhumitha	-	-
24.	Mrs.P.Elaveni	-	-
25.	Mrs.S.Devi Priya		-
26.	Mrs.K.Jasmine Mystica		-
27.	Mrs.K.R.Kayalvizhi	-	-
28.	Mr.M.Lingeshwaran	<p>1. M Lingeshwaran, A Novel Fractal Inspired Iterated Four-Legged Loaded Loop Elements Based 2.5-D Miniaturized Frequency Selective Surface, IEEE Transactions on Electromagnetic Compatibility, December 2021. https://doi.org/10.1109/TEMPC.2021.3095168</p>	-
29.	Mr.R.Prabhu	<p>1. R. Prabhu, B. Parvathavarthini, R.A. Alaguraja, Slum Extraction from High Resolution Satellite Data using Mathematical Morphology based approach, International Journal of Remote Sensing, MDPI, 42, 1, January 2021, 172-190, https://doi.org/10.1080/01431161.2020.1834167.</p> <p>2. R. Prabhu, B. Parvathavarthini, R.A. Alaguraja,</p>	-

		<p>Integration of deep convolutional neural networks and mathematical morphology-based post classification framework for urban slum mapping, Journal of Applied Remote Sensing, SPIE, 15, 1, March 2021, https://doi.org/10.1117/1.JRS.15.014515</p> <p>3. R. Prabhu & B. Parvathavarthini (2021) An enhanced approach for informal settlement extraction from optical data using morphological profile-guided filters: A case study of madurai city, International Journal of Remote Sensing, 42, 17, September 2021, 6692-6709, https://doi.org/10.1080/01431161.2021.1943039</p>	
30.	Mr.C. Ashok	<p>1. Ashok C, Venkateswaran N, Manifold Ambiguity-Free Low Complexity DOA Estimation Method for Unfolded Co-Prime Arrays, IEEE Communications Letters, IEEE, 25,6, June 2021, 1886-1890, 10.1109/LCOMM.2021.3059673.</p> <p>2. Ashok C and Venkateswaran N, “An Efficient Method for Resolving Ambiguity in DOA Estimation with Coprime Linear Array.” Circuits Systems and Signal Processing, November 2021. doi.org/10.1007/s00034-021-01887-3</p>	-
31.	Mr.G.D.Vignesh	-	<p>Neural network-based optimization of intelligent odometry system in an autonomous robot for accurate position and orientation estimation</p> <p>1 Dr. Anandakumar Haldorai, 2Dr.K.Balamurugan, 3Dr. M. Arulaalan, 4. Mr. GD Vignesh, 5Dr.Ram Subbiah, 6Dr. S. Lakshmi narayanan</p>

			Nat. Volatiles & Essent. Oils, 2021; 8(5): 1665 - 1674.
32.	Dr.A K P Kovendan	-	An efficient Hybrid global optimizer for accurate modeling of manipulator dynamics in minimum-time trajectory-planning problems 1Dr. Anandakumar Haldorai, 2Dr. Rudresh Deepak Shirwaikar, 3Dr. L. Rama Parvathy, 4Dr. S. Markkandan, 5 Dr. Kovendan AKP , 6Dr.Ram Subbiah Nat. Volatiles & Essent. Oils, 2021; 8(5): 1583 - 1592