



JEPPIAAR
ENGINEERING COLLEGE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

JOURNAL PUBLICATION DETAILS 2024-2025

Sl. No.	Name of the Authors	Title of the Paper	Name of the Journal	Volume No, Issue No, Page No	Date	ISSN No of the Journal	Impact Factor of the journal	DOI	Indexing WOS-SCIE/ WOS-ESCI/ SCOPUS/ UGC CARE/ Other Journal/ Conference Proceeding
1	Dr.T. R. Chenthil,, Dr.G. Balachandran, Dr.S. Ranjith, Mr.E Sakthivel	A Quantum-Inspired Source-Distributed Opportunistic Routing Protocol for Reliable Routing in Underwater Wireless Sensor Networks	Concurrency and Computation Practice and Experience	Volume :37, Issue 2	19.11.2024	15320634	2.6	https://doi.org/10.1002/cpe.8330	Scopus
2	Dr.C.H. Venkata Siva Prasad Dr. G. Balachandran Dr.S. Ranjith	Optimized Global Aware Siamese Network based Monkeypox disease classification using skin images	Biomedical Signal Processing and Control	Volume 101, 107125	18.11.2024	1746-8094	4.9	https://doi.org/10.1016/j.bspc.2024.107125	SCIE
3	Dr.G.Balachandran, Dr.S.Ranjith, Dr.T.R,Chenthil Dr.G.C.Jagan	Facial expression-based emotion recognition across diverse age groups: a multi-scale vision transformer with contrastive learning approach	. Journal of Combinatorial Optimization	Volume 49, article number 11	16.12.2024	1382-6905	1.1	https://doi.org/10.1007/s10878-024-01241-8	SCIE
4	Dr.T.R. Chenthil, Dr.G.C. Jagan, Dr.S. Ranjith, Dr.G. Balachandran	Energy-efficient hierarchical dynamic depth adjustment routing protocol for UWSN with distributed sink mobility and semantic self-healing	Journal of Network and Computer Applications	Volume 238, Issue C	26.2.25	10848045	8	https://doi.org/10.1016/j.jnca.2025.104136	SCIE
5	Dr.G.C.Jaggan Dr.G.Balachandran, Dr.S. Ranjith	Trust-Based Multi-Objective Cluster Head Selection for Optimal and Secure Routing in Wireless Networks	International Journal of Communication Systems	Volume 38, Issue 8	13.4.2025	10745351	3.08	https://doi.org/10.1002/dac.70095	SCIE
6	Dr.Balachandran G, Dr.Ranjith S, Dr.Jagan G.C, Dr.Chenthil T R	MAEL-FER: a multi-aspect enhancement learning framework for robust facial emotion recognition through integrated learning modules	International Journal of Machine Learning&Cybernetcs	Volume 16, Issue 5-6	4.5.2025	1868-8071	3.8	https://doi.org/10.1007/s13042-025-02597-x	SCIE
7	Dr.Balachandran G, Dr.Ranjith S, Dr.Jagan G.C, Dr.Chenthil T R	Advanced speech emotion recognition utilizing optimized equivariant quantum convolutional neural network for accurate emotional state classification	Knowledge-Based Systems	Volume 316, Issue C	12..5.2025	9507051	9.62	https://doi.org/10.1016/j.knosys.2025.113414	SCIE
8	Dr.Bagirathan Kaliyamurthi	An area and power efficient VLSI architecture for epileptic seizure detection using Transpose Form Retimed Delayed LMS filter and spiking neural networks	Integration	Volume 103, 102433	5.5.2025	0167-9260	2.2	https://doi.org/10.1016/j.vlsi.2025.102433	SCIE
9	Dr.Bagirathan Kaliyamurthi	An Intelligent Recurrent Neural Network Driven Secured Routing Protocol for Vehicular Ad Hoc Networks	Knowledge-Based Systems	Volume 317, 113371	20.3.2025	0950-7051	7.6	https://doi.org/10.1016/j.knosys.2025.113371	SCIE
10	Dr.Bagirathan Kaliyamurthi	Sine Cosine–Reptile Search–Based CH Selection and Optimized Routing in WSN-Assisted IoT to Mitigate Hotspot Problem	International Journal of Communication Systems	Volume 38, Issue 7	20.3.2025	1074-5351	1.8	https://doi.org/10.1002/dac.70050	Scopus

11	Mrs.Deepika V D	Sustainable Energy Management Using IOT And AI Based Solution	Journal of Civil and Environmental Engineering	VOLUME 13 ISSUE 5	May-25	2096-6717	1	10.1018/IJCEE.2025.13.5.771	Scopus
12	Mrs.Deepika V D	Smart IOT Solution for Sustainable Farming	Journal of Civil and Environmental Engineering	VOLUME 13 ISSUE 6	May-25	2096-6717	1	10.1018/IJCEE.2025.13.5.779	Scopus
13	Dr.V. Nanammal Dr.S.Ranjith	ViTU-net: A hybrid deep learning model with patch-based LSB approach for medical image watermarking and authentication using a hybrid metaheuristic algorithm	Computers in Biology and Medicine	Volume 194, 110393	2.6.2025	18790534	8.43	https://doi.org/10.1016/j.compbmed.2025.110393	SCIE