

Thiagarajar College of Engineering, Madurai-625015.
Department of Computer Science and Engineering



Faculty Publications

Journals 2023-2024

S.No.	Author Details	Title of Article	Publication Details	Indexing Details	DOI
1.	R.Harine Rajashree K.Sundarakantham E.Sivasankar S.Mercy Shalinie	A hybrid deep learning framework for privacy preservation in edge computing	Computers & Security, Elsevier, Volume 129, page-103209, June 2023.	Impact Factor - 4.8, Science Citation Index Expanded and Scopus indexed.	10.1016/j.cose.2023.103209
2.	A.M.Rajeswari B.Subbulakshmi M.Nirmaladevi M.Sivakumar	Application of Probability based surprising measure in outlier detection	European Chemical Bulletin (ISSN 2063-5346), Volume -12, Special Issue-5, June 2023.	Scopus indexed.	10.48047/ecb/2023.12.si5.174
3.	B.Subbulakshmi M.Nirmaladevi A.M.Rajeswari M.Sivakumar	A Graph-based approach for personalized job recommendation	BioGecko , Volume 12 Issue 3 May-June 2023.	Impact factor-1.58, Web of Science indexed.	biogecko.co.nz/.2023.v12.i03.pp4474-4486
4.	Vadamodula Prasad G.S.R.Emil Selvan M.P.Ramkumar	ADTBO: Aquila driving training-based optimization with deep learning for skin cancer detection	The Imaging Science Journal, Taylor & Francis, pages-1–19, July 2023.	Impact Factor-0.5, Science Citation Index Expanded and Scopus indexed.	10.1080/13682199.2023.2226894
5.	B.Subbulakshmi M.Nirmaladevi R.Rithani	Crop Prediction and Recommendation Using Ensemble of DL Models	Mapana - Journal of Sciences, Vol. 22, Special Issue 2, 147-169, ISSN 0975-3303, July 2023.	UGC Care List	10.12723/mjs.sp2.9

6.	M.K.Kavitha Devi M.Sathya Thendral	Using Kolb's Experiential Learning Theory to Improve Student Learning in Theory Course	Journal of Engineering Education Transformations Volume: 37, Issue: 1, Pages: 70-81, August 2023.	Scopus indexed.	10.16920/jeet/2023/v37i1/23133
7.	Sakthi Ulaganathan M.P.Ramkumar G.S.R.Emil Selvan C.Priya	Spinalnet-deep Q network with hybrid optimization for detecting autism spectrum disorder	Signal, Image and Video Processing Volume 17, pages 4305–4317, August 2023.	Impact Factor-2, Science Citation Index Expanded and Scopus indexed.	10.1007/s11760-023-02663-3
8.	D.Karthika Priya B.Sathya Bama M.P.Ramkumar S.Mohamed Mansoor Roomi	STD-net: saree texture detection via deep learning framework for E-commerce applications.	Signal, Image and Video Processing SIViP, Springer, September 2023.	Scopus and SCIE indexed.	10.1007/s11760-023-02757-y
9.	J.Abishek P.Kannan M.Nirmala Devi J.Prabhakaran T.Sampathkumar M.Kalpana	Soil Texture Prediction Using Machine Learning Approach for Sustainable Soil Health Management	International Journal of Plant & Soil Science Volume 35, Issue 19, Page 1416-1426, Article no.IJPSS.105970 ISSN: 2320-7035, September 2023.	-	10.9734/ijpss/2023/v35i193685
10.	Hamil Stanly S.Mercy Shalinie Riji Paul	A review of generative and non generative adversarial attacks on context rich images	Engineering Applications of Artificial Intelligence, Elsevier Volume 124, September 2023.	Impact Factor-8, Science Citation Index Expanded, Scopus and Web of Science indexed.	10.1016/j.engappai.2023.106595

11.	C.Santhiya S.Padmavathi	Bio-Inspired Crossover Cosine Swarm Optimization Algorithm Based Task Scheduling for Quality of Service Improvement Under Cloud Environment.	Journal of Signal Processing Systems, Springer, November 2023.	Scopus, Science Citation Index Expanded and UGC-CARE List (India) indexed.	10.1007/s11265-023-01900-9
12.	R.Leena sri G.Bhavani	Evaluating Student Attitudes and Behaviors through SEAL to Achieve Holistic Development in Engineering Education	Journal of Engineering Education Transformations, Volume: 37, Issue: Special Issue 2, Pages: 348-356, January 2024.	Scopus indexed	10.16920/jeet/2024/v37is2/24061

Conferences 2023-2024

S.No.	Author Details	Title of Article	Publication Details
1.	R.Harine Rajashree K.Sundarakantham S.Mercy Shalinie	A Novel Hierarchical Clustering Technique to Analyse Style and Content Factorization During Image Recognition	Second International Conference on Machine Learning, Deep Learning, and Computational Intelligence for Wireless Communication (MDCWC2023), June 2023, National Institute of Technology, Tiruchirappalli.
2.	Poongkyuil Muse Hamil Stanly S.Mercy Shalinie	Online Log Analysis for Malicious User Activities	2 nd International Conference on Paradigm Shifts in Communications Embedded Systems, Machine Learning and Signal Processing (PCEMS), June 2023, NIT Tiruchirappalli.10.1109/PCEMS58491.2023.10136101.
3.	S.Arun Karthick Rahul Shiva Konar V.Harshavarthini M.P.Ramkumar G.S.R Emil Selvan	Brain Tumor Detection via Deep Learning Framework on MRI Images	International Conference on Communication, Circuits, and Systems (IC3S), July 2023, Bhubaneswar, India. 10.1109/IC3S57698.2023.10169527.
4.	S.Sorna Lakshmi C.Senthilkumar R.Leena Sri	Data Delivery Incorporating Blockchain in Vanet Simulation Environment	International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES), IEEE, July 2023.10.1109/CISES58720.2023.10183578.
5.	A.Subash S.Shane Rex G.Vijay G.S.R.Emil Selvan M.P.Ramkumar	Malware Detection in Android Application using Static Permission	2023 5 th International Conference on Inventive Research in Computing Applications (ICIRCA),IEEE,Coimbatore, India, pp. 1241-1245,August 2023.
6.	D. Karthika Priya M. P. Ramkumar D. Menaka	Rail Fastener Fault Detection Based on Enhanced YOLOv7 Model	2023 International Conference on Circuit Power and Computing Technologies (ICCPCT), Kollam, India, pp. 1681-1689, September 2023.

7.	M.Nirmala Devi B.Subbulakshmi M.Siva Kumar T.Teenu Prinica	Severity levels Categorization for detecting diabetic retinopathy using YOLOv7	International Conference on Intelligent Computing Systems and Applications (ICICSA 2023), National Institute of Technology Silchar, Assam, India, September 2023.
8.	V.Harshini Sivakami M.Nivedhidha M.P.Ramkumar G.S.R.Emil Selvan	CopulaGAN Boosted Random Forest based Network Intrusion Detection System for Hospital Network Infrastructure	2023 14 th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, pp. 1-7, November 2023.
9.	S.S.Prasanna G.S.R.Emil Selvan M.P.Ramkumar	Anomaly-based Intrusion Detection System for ICS	2023 14 th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, IEEE, November 2023.
10.	R.Aravind M.Sivakumar M.Nirmala Devi B.Subbulakshmi	Unmanned Surface Vehicles Detection In Sea Areas Using Yolov8 Algorithm	International Conference on Transforming Engineering Systems for Sustainability (TESS-2023), November 2023.
11.	M Nirmala Devi B Subbulakshmi M Siva Kumar N. Swetha Adhirai N. Theeraj Jegan	Customer Churn Prediction - An analytical survey of Data Science Methods Exploring Data Science Approaches for Customer Churn Prediction: A Comprehensive Survey	56 th Annual Convention of Operational Research Society of India (2023-ORSI) and 10 th International Conference on Business Analytics and Intelligence (2023-ICBAI) , IISc Bangalore, December 2023.
12.	A.S.Sri Saila A.T.Venkata Subramani M.D.Harsha Prada G.Madhupriya	Deep Learning Based Multilingual Voice Recognition System and Analysis for Organization Surveys	5 th International Conference on Artificial Intelligence and Speech Technology (AIST 2023), Indira Gandhi Delhi Technical University for Women, December 2023.

13.	Rigzen Norbu M.Arun Kumar S.Ramanathan D.Nagendra Kumar Jigmet Dolkar Subalakshmi Sujitha	Advancing IoT Security with a Hybrid Deep Learning Model for Network Intrusion Detection	2023 International Conference on Energy, Materials and Communication Engineering (ICEMCE), December 2023
14.	D.Nagendra Kumar P.Infant Vinoth M.P.S Guhan, M.R Archana, S.Santhana Hari	A secure authentication mechanism for IoT devices using Hyperledger Fabric	5 th International Conference on Advances in Distributed Computing and Machine Learning (ICADCML)-2024 will be organized by School of Electronics and Engineering, VIT-AP University, India in collaboration with College of Engineering, San Diego State University, USA during January 2024.
15.	B.Subbulakshmi M.Nirmala Devi M.Sivakumar A.Varshini Sri S.K.Varsha T.Kaviya Meena	Efficient AI-Powered Audio-to-Text Transcription: A GUI-Enhanced Stack with EXE Build for Innovation in Communications	2023 International Conference on Energy, Materials and Communication Engineering (ICEMCE), IEEE, Madurai, India, pp. 1-7, February 2024.
16.	B.Subbulakshmi M.Nirmala Devi M.Sivakumar R.Aravind	Light Weight USV Detection in Sea Areas using Focus and Attention mechanism	International Conference on Information Technology 2024: Adaptive Intelligence: Evolve your world, , Amity University, March 2024.
17.	B.Subbulakshmi M.Nirmala Devi M.Sivakumar	Deep Learning framework for cardiovascular disease prediction from ECG images	International Conference on Emerging Trends and Technologies on Intelligent Systems (ETTIS-2024) in association with the Petroleum-Gas, University of Ploiesti, Romania, the University of Haute-Alsace, France and Northeastern University, USA, March 2024.
18.	D.Kaviyaadharshani M.Nivedhidha M.P.Ramkumar G.S.R.Emil Selvan	Futuristic Diabetes Prediction: Employing Machine Learning for Timely Diagnosis	2024 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence (RAEEUCCI), SRM Institute of Science and Technolgy, April 2024.

Book Chapters 2023-2024

S.No.	Author Details	Title of Article	Publication Details
1.	M.Nirmala Devi B.Subbulakshmi G.Naga Nivedithaa R.Swathi	Analysis of Campus Recruitment Data and Career Counseling in the Engineering Sector: Engineering Career Guidance by Data Exploration	Handbook of Research on Data Science and Cybersecurity Innovations in Industry 4.0 Technologies, IGI Global, pages: 600, June-2023. 10.4018/978-1-6684-8145-5.
2.	B.Subbulakshmi M.Nirmala Devi V.Sriram J.Srimadhi M.Arvindhan	A Hybrid Machine Learning Model for House Price Prediction	Conference of Innovative Product Design and Intelligent Manufacturing System, IPDIMS - 2022, Intelligent Manufacturing Systems in Industry 4.0, Lecture Notes in Mechanical Engineering. Springer, Singapore, July 2023. Scopus indexed. 10.1007/978-981-99-1665-8_35.
3.	C.Santhiya S.Padmavathi	Perspective Chapter: A View – Cloud-Edge Computing Technology	Edge Computing - Technology, Management and Integration, IntechOpen, August 2023. 10.5772/intechopen.111454.
4.	J.Lece Elizabeth Rani M.P.Ramkumar G.S.R.Emil Selvan	Detection of Ductal Carcinoma Using Restricted Boltzmann Machine and Autoencoder (RBM-AE) in PET Scan.	International Conference on Information Technology, InCITe 2023: Decision Intelligence Solutions pp 189–201, Lecture Notes in Electrical Engineering, vol 1080. Springer, Singapore, December 2023. Scopus indexed. 10.1007/978-981-99-5994-5_18.
5.	S.Shaambhavi G.Bhavani	A Systematic Approach for Effective Apgar Score Assessment in 1 and 5 min Using Manifold Machine Learning Algorithms.	Innovations in VLSI, Signal Processing and Computational Technologies. International Conference on Women Researchers in Electronics and Computing WREC 2023, Lecture Notes in Electrical Engineering, Springer, Singapore, vol 1095. pp 183–194, January 2024. Scopus Indexed, 10.1007/978-981-99-7077-3_19.

6.	G. Bhavani C. Jeyalakshmi	A Proficient Multi-level Data Analytic Suite for Ascertaining Preliminary Gestational Hazards Associated with Its Influences.	Innovations in VLSI, Signal Processing and Computational Technologies. International Conference on Women Researchers in Electronics and Computing WREC 2023, Lecture Notes in Electrical Engineering, Springer, Singapore, vol 1095. pp 457–468, January 2024. Scopus Indexed 10.1007/978-981-99-7077-3_45.
7.	M. Nirmala Devi M. Siva Kumar B. Subbulakshmi T Uma Maheswari M Vasanth Kumar P Karpagam	A Deep Learning Based Bio Fertilizer Recommendation Model Based on Chlorophyll Content for Paddy Leaves	Computational Sciences and Sustainable Technologies. ICCSST 2023 Conference, Communications in Computer and Information Science, vol 1973. Springer, Cham. book series , February 2024, ISBN:978-3-031-50993-3. Scopus Indexed 10.1007/978-3-031-50993-3_25.
8.	Divya Vetriveeran Rakoth Kandan Sambandam J. Jenefa R. Leena Sri	Edge Computing in Aerial Imaging – A Research Perspective	Advances in Aerial Sensing and Imaging, Wiley, pp.355-382, May 2024. 10.1002/9781394175512.ch16.