

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



Faculty Publications

Journals 2022-2023

S.No.	Author Details	Title of Article	Publication Details	Indexing Details	Doi
1.	Chandrasekaran Sridharan Sudhaman Parthasarathy	A Simplified Alternate Approach to Estimate Software Size of Startups	The International Arab Journal of Information Technology, Vol. 19, No. 4, July 2022, pages: 674-680.	Impact Factor is 0.967, Scopus Indexed	10.34028/iajit/19/4/12
2.	G. S. R. Emil Selvan T. Daniya J. P. Ananth K. Suresh Kumar	Network Intrusion Detection and Mitigation Using Hybrid Optimization Integrated Deep Q Network	Cybernetics and Systems, Taylor & Francis, July 2022.	Impact Factor:1.859, Scopus Indexed	10.1080/01969722.2022.2088450
3.	Muthuperumal Periyaperumal Ramkumar, Pauliah David Mano Paul, Balajee Maram, John Patrick Ananth	Deep maxout network for lung cancer detection using optimization algorithm in smart Internet of Things	Concurrency and Computation: Practice and Experience, Wiley, Volume-34, issue-25, August 2022,	Impact factor (2021):1.831, Scopus indexed	10.1002/cpe.7264
4.	N. Anita M. Vijayalakshmi S. Mercy Shalinie	Proof-of-Improved-Participation: A New Consensus Protocol for Blockchain Technology	Computer Systems Science and Engineering volume- 44,issue-3, pages - 2007-2018, August 2022.	Scopus and SCI indexed, Impact Factor- 4.397	10.32604/csse.2023.025516

5.	S. Abirami P. Chitra	Probabilistic air quality forecasting using deep learning spatial-temporal neural network	Geoinformatica, Springer, September 2022.	Scopus and SCIE indexed, Impact Factor- 2.773	10.1007/s10707-022-00479-w
6.	R. Rajesh Alias Harinarayan S. MercyShalinie	XFDDC: eXplainable Fault Detection Diagnosis and Correction framework for chemical process systems	Process Safety and Environmental Protection, Elsevier, Volume 165, September 2022, Pages 463 - 474	Impact Factor:7.926, Scopus and Web of Science Indexed.	10.1016/j.psep.2022.07.019.
7.	RamkumarM.P. T.Daniya P.Mano Paul S.Rajakumar	Intrusion detection using optimized ensemble classification in fog computing paradigm	Knowledge-Based Systems, Elsevier, Volume- 252, September 2022, page-109364,	Impact Factor:8.139, Scopus, Web of Science and SCI indexed.	10.1016/j.knosys.2022.109364
8.	N.Anita M.Vijayalakshmi S.Mercy Shalinie	Blockchain-based anonymous anti-counterfeit supply chain framework.	Sadhana, Springer vol-47, article number - 208, Oct 2022.	Scopus and SCIE indexed	10.1007/s12046-022-01984-2
9.	G. S. R.Emil Selvan M. Azees CH. Rayala Vinodkumar G. Parthasarathy	Hybrid optimization enabled deep learning technique for multi-level intrusion detection	Advances in Engineering Software,Elsevier Volume 173, pages-103197, August 2022.	Impact Factor:4.255, Scopus and Web of Science Indexed.	10.1016/j.advengsoft.2022.103197.

10.	Emil Selvan Gnanasigamani Samuel Raj Issac Diana Jeba Jingle Balajee Maram John Patrick Ananth	IoT enabled lung cancer detection and routing algorithm using CBSOA-based ShCNN	International Journal of Adaptive Control and Signal Processing, Wiley, November 2022.	Impact factor:3.369, Scopus and Web of Science Indexed.	10.1002/acs.3518.
11.	G.Sharmila M.K.Kavitha Devi	Blockchain based Consensus Algorithm and Trustworthy Evaluation of Authenticated Subgraph Queries	Computer Systems Science and Engineering volume- 45,issue-2, pages - 1743-1758, November 2022.	Scopus and SCI indexed, Impact Factor- 4.397	10.32604/csse.2023.032127
12.	K. Indira C. V. Nisha Angeline S. Karthiga C. Santhiya RajaLavanya G. Vinoth Chakkaravarthy	Enhanced Image Colorization in Medical Image Analysis using Deep Learning Model	Journal of Survey in Fisheries Sciences, Vol. 10 No. 2S, 2023.	Scopus and Web of Science Indexed, Q3, SNIP - 0.182, SJR - 0.25.	10.17762/sfs.v10i2S.380
13.	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
14.	C. Senthilkumar Manikandan Thirumalaisamy	DNA Encoded Color Image Encryption Based on Chaotic	Journal of Signal Processing Systems April2023, Springer vol - 95, pp:459-474,	Impact Factor-1.8, Scopus and SCIE Indexed	10.1007/s11265-023-01853- z

	Rajesh Kumar Dhanaraj Anand Nayyar	Sequence from Neural Network			
15.	A Subash C S A Danny M Vijayalakshmi	IoT-based secure luggage storage	International Journal of Information Technology, Springer, volume 15, pages1911–1918, April 2023.	Scopus Indexed.	https://doi.org/10.1007/s41870-023-01229-3
16.	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	Web of Science Indexed and Impact factor:1.58	http://biogecko.co.nz/.2023.v12.i03.pp4474-4486
17.	M. -H. Yang C. -H. Chen J. -N. Luo M. Vijayalakshmi S. Mercy Shalinie	An Efficient and Secure Method for Simultaneous Ownership Transfer of Multiple Mobile Readers	IEEE Systems Journal	Impact Factor: 4.802.	10.1109/JSYST.2023.3251970.
18.	N. Anita M. Vijayalakshmi S. Mercy Shalinie	Proof-of-improved-participation: a new consensus protocol for blockchain technology	Computer Systems Science and Engineering, vol. 44, no.3, pp. 2007–2018, 2023.	Impact Factor: 1.4	10.32604/csse.2023.025516
19.	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, July 2023.	SCI Indexed, Impact Factor: 7.8	

20.	B.Subbulakshmi C.Deisy S.Parthasarathy	A Novel Incremental Framework for Building Classifier Using Constraint Class Association Rules.	International Journal of Information Retrieval Research, volume- 13, issue-1, pages:1-21. Jan 2023	-	10.4018/IJIR.316125.
21.	S. Abinaya A. Sherly Alphonse S. Abirami M. K. Kavithadevi	Enhancing Context-Aware Recommendation Using Trust-Based Contextual Attentive Autoencoder.	Neural Processing Letters, Springer, Feb 2023.	Scopus and SCIE Indexed, Impact Factor-3.1.	https://doi.org/10.1007/s11063-023-11163-x
22.	G. Sharmila M. K. Kavitha Devi	BTLA-LSDG: Blockchain-Based Triune Layered Architecture for Authenticated Subgraph Query Search in Large-Scale Dynamic Graphs	IETE Journal of Research, Feb 2023.	Scopus Indexed, Impact Factor-1.5.	10.1080/03772063.2023.2171910.
23.	S Dharshika K Narasima Mallikarjunan	IOT Based Garbage Monitoring Using Arduino	International Journal of Research in Engineering and Science (IJRES), volume-11, Issue-4, April 2023 Pages:364-371	-	-
24.	S Nandhakumar Raj S Pradhiksha	Deep Learning-Based Ocular Disease Recognition	International Journal of Engineering Technology and Management	-	10.46647/ijetms.2023.v07i02.083

	M Sivakumar		Sciences, volume-7, issue-2, April 2023		
25.	S Varshini R Ramprasad M Sivakumar	Pneumonia Detection Using Image Enhancing Techniques and Deep Learning	International Journal of Engineering Technology and Management Sciences, volume-7, issue-2, April 2023	-	10.46647/ijetms.2023.v07i02.0 82
26.	G.S.R.Emil Selvan R. Ganeshan I. Diana Jeba Jingle J.P. Ananth	FACVO-DNFN: Deep learning-based feature fusion and Distributed Denial of Service attack detection in cloud computing	Knowledge-Based Systems, Elsevier, Volume 261, page- 110132, Feb 2023	Impact Factor: 8.139, Scopus, SCI and Web of Science Indexed.	10.1016/j.knosys.2022.110132.
27.	S. Abinaya K. Indira S. Karthiga T. Rajasenbagam	Time Cluster Personalized Ranking Recommender System in Multi-Cloud	Mathematics, MDPI, volume-11, issue-6, page- 1300, March 2023.	Impact Factor: 2.4, Scopus, SCI and Web of Science Indexed.	10.3390/math11061300.

Conferences 2022-2023

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1.	A Subash C S A Danny M Vijayalakshmi	IoT-based secure luggage storage	International Journal of Information Technology, Springer, volume 15, pages1911–1918, April 2023.Scopus Indexed. https://doi.org/10.1007/s41870-023-01229-3
2.	B. Subbulakshmi M. Nirmala Devi J Srimadhi	Human Action Recognition in a Smart Home using Deep Learning Techniques	International Conference on Artificial Intelligence, Blockchain, Computing and Security (ICABCS-2023) February 2023, Galgotias University, Greater Noida, Uttar Pradesh, India
3.	C.Sabareeswaran K.Pavithra T.G.Saravanan M.K.Kavitha Devi	Analysis and Forecasting of Water Quality Index using Machine Learning Algorithm	Second International Conference on Next Generation Computing Systems (ICNGCS - 2023), March 2023, P S G Institute of Technology and Applied Research Coimbatore.
4.	I Subasri GSR Emil Selvan M P Ramkumar	Machine Learning Based Feature Selection for DDoS Detection in Named Data Networking	4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), March 2023, pp: 305-310,IEEE 10.1109/ICAC3N56670.20
5.	S Deepa S Nivetha K Thulasi Lakshmi GSR Emil Selvan M P Ramkumar	Routing Scalability in Named Data Networking	4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), March 2023, pp -1749-1753, IEEE 10.1109/ICAC3N56670.2022.10074549

6.	M Mahalakshmi M P Ramkumar, GSR Emil Selvan	SCADA Intrusion Detection System using Cost Sensitive Machine Learning and SMOTE-SVM	4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), March 2023, pp: 332-337, IEEE 10.1109/ICAC3N56670.2022.10074251
7.	N R Ruchitaa Raj S Nandhakumar Raj M Vijayalakshmi	Web Scrapping Tools and Techniques: A Brief Survey	4th International Conference on Innovative Trends in Information Technology (ICITIIT), Kottayam, India, March 2023, pp. 1-4, Scopus Indexed 10.1109/ICITIIT57246.2023.10068666
8.	A Subash C S A Danny M Vijayalakshmi	An Enhanced Hybrid Scheme for IP Traceback	4th International Conference on Innovative Trends in Information Technology (ICITIIT), Kottayam, India, March2023, pp. 1-5. Scopus Indexed 10.1109/ICITIIT57246.2023.10068579
9.	I Shobika G Madhupriya	Performance Analysis of Workloads at Various Computing Environments	International Conference on intelligent Computing Technologies and Research i-COMPUTER - 2023, National Institute of Technology Puducherry, March 2023
10.	S.Shaambhavi G.Bhavani	A systematic approach for Effective Apgar Score assessment in 1 and 5 minutes using manifold machine learning algorithms	2nd International Conference Women Researchers in Electronics and Computing (WREC-23), April 2023, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India
11.	G.Bhavani	A Proficient Multi-Level Data Analytic Suite for Ascertaining Preliminary Gestational Hazards with its Influences	2nd International Conference 'Women Researchers in Electronics and Computing, April 2023,, Dr. B R Ambedkar National Institute of Technology, Jalandhar, India

12.	B Shruthee Shekinah Olive K Sundarakantham	Market Basket Analysis and Design of Chatbot for Recommendations to Startups in Tamil Region	International Conference on Data Science and Intelligent Applications, ICDSIA-2023 April 2023, Gandhinagar University
13.	M.M. Sangeetha M.K. Kavitha Devi	Performance Analysis of Air Pollution Prediction Using Machine Learning Algorithms	International Conference on Emerging Trends in Social, Business and Management Science Research, ICSBMR-2023, May 2023, VIT Business School, Vellore Institute of Technology, Chennai, India
14	V. Prithivi Raj D. Nagendra Kumar	Desktop Application for Automating Data Entry of Students Marks	ICCET 2023 - 11th International Conference on Contemporary Engineering and Technology, May 2023, Organization of Science and Innovation Engineering & Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai.
18.	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.
20.	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
21.	Poongkyuil Muse Hamil Stanly S Mercy Shalinie	Online Log Analysis for Malicious User Activities	2nd International Conference on Paradigm Shifts in Communications Embedded Systems, Machine Learning and Signal Processing (PCEMS), June 2023, NIT Tiruchirappalli

			10.1109/PCEMS58491.2023.10136101
22.	Priya Thiagarajan M Suguna	Intelligent Papilledema Detector (IPD)	International Conference on Advances in Intelligent Computing and Applications (AICAPS), IEEE March 2023. 10.1109/AICAPS57044.2023.10074229
23.	B. Dilli M. Suguna	Early Thermal Forest Fire Detection using UAV and Saliency map	5th International Conference on Contemporary Computing and Informatics (IC3I), March 2023. 10.1109/IC3I56241.2022.10072674
24.	S Nandhakumar Raj S Pradhiksha M Sivakumar	Deep Learning-Based Ocular Disease Recognition	International Journal of Engineering Technology and Management Sciences, volume-7, issue-2, April 2023 10.46647/ijetms.2023.v07i02.083
25.	S Varshini R Ramprasad M Sivakumar	Pneumonia Detection Using Image Enhancing Techniques and Deep Learning	International Journal of Engineering Technology and Management Sciences, volume-7, issue-2, April 2023 10.46647/ijetms.2023.v07i02.082
27.	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
28.	S.Prithika E.Dhatshaeni C.Senthil Kumar	Stock Market Prediction using Hybrid CNN-LSTM	Thirteenth International Conference on Advances in Computer Engineering – ACE 2023 ,May 2023, Trivandrum, India.
29.	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, June-2023, Pages: 600. 10.4018/978-1-6684-8145-5

Book Chapters 2022-2023

S.No.	Author Details	Title of Article	Publication Details
1.	S.Abirami P.Chitra	Smart Pollution Alert System Using Machine Learning	Research Anthology on Machine Learning Techniques, Methods, and Applications, IGI Global, Chapter-56, Pages-14,May 2022. Scopus Indexed 10.4018/978-1-6684-6291-1.ch056.
2.	Hemalatha Jeyaprakash KavithaDevi M. K. Geetha S.	A Comparative Review of Various Machine Learning Approaches for Improving the Performance of Stego Anomaly Detection	Research Anthology on Machine Learning Techniques, Methods, and Applications, IGI Global Chapter 52, pages-21,May 2022. Scopus Indexed. 10.4018/978-1-6684-6291-1.ch052
3.	S.Abinaya M.K. KavithaDevi	Enhancing crop productivity through autoencoder-based disease detection and context-aware remedy recommendation system	Application of Machine Learning in Agriculture , Chapter 12, Academic Press, Elsevier, Pages 239-262, Jan 2022. 10.1016/C2020-0-03700-X
4.	M.P.Ramkumar G.S.R.Emil Selvan M.Mahalakshmi R.Jeyarohini	Goodput improvement with low-latency in Data Center Network	Machine Learning and Computational Intelligence Techniques for Data Engineering. MISP 2022. May 2023, Lecture Notes in Electrical Engineering, vol 998. Springer, Singapore. Scopus Indexed. https://doi.org/10.1007/978-981-99-0047-3_26
5.	I.Gokul Ganesh A.Selva Sukan S.Hariharan M.P.Ramkumar M.Mahalakshmi G.S.R Emil Selvan	HDD Failure Detection using Machine Learning.	Machine Learning and Computational Intelligence Techniques for Data Engineering. MISP 2022. May 2023,Lecture Notes in Electrical Engineering, vol 998. Springer, Singapore. Scopus Indexed. https://doi.org/10.1007/978-981-99-0047-3_61

6.	S.Sams Aafiya Banu B.Gopika E.Esakki Rajan M.P.Ramkumar M.Mahalakshmi G.S.R.Emil Selvan	SMOTE Variants for Data Balancing in Intrusion Detection System Using Machine Learning.	Machine Learning and Computational Intelligence Techniques for Data Engineering. MISP 2022. May 2023, Lecture Notes in Electrical Engineering, vol 998. Springer, Singapore. Scopus Indexed. https://doi.org/10.1007/978-981-99-0047-3_28
7.	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, July 2023, Intelligent Manufacturing Systems in Industry 4.0, Lecture Notes in Mechanical Engineering. Springer, Singapore. Scopus Indexed 10.1007/978-981-99-1665-8_35 .
8.	M. D. Harsha Prada A. S. Sri Saila B. Subbulakshmi M. Nirmala Devi	Semi Supervised Approach with Entity Embeddings for Heart Disease Prediction	International Conference on Information Systems and Management Science, May 2023, Lecture Notes in Networks and Systems book series, Springer, volume 671. Scopus Indexed. 10.1007/978-3-031-31153-6_44