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.	R.Logeswari Saranya P.Ashokkumar M.Gokul Ananth	Analysis of Patterns in Sales based on new segment norms using Linear Regression	International Journal on Engineering Technology and Sciences(IJETS), Volume-9, Issue-6, June 2022.	-	-
2.	S.Abinaya M.K.Kavitha Devi A.Sherly Alphonse	Enhancing Context-Aware Recommendation Using Hesitant Fuzzy Item Clustering by Stacked Autoencoder Based Smoothing Technique	International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Vol. 30, No. 4, pages- 595–624, World Scientific Publishing Company, July 2022.	Impact Factor-1.027, Scopus and SCIE indexed.	10.1142/S02184885225000155
3.	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, pages: 674-680, July 2022,	Impact Factor- 0.967, Scopus indexed.	10.34028/iajit/19/4/12
4.	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
5.	M.P.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-1.831, Scopus indexed.	10.1002/cpe.7264

6.	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.
7.	S.Abirami P.Chitra	Probabilistic air quality forecasting using deep learning spatial–temporal neural network	Geoinformatica, Springer, September 2022.	Impact Factor-2.773, Scopus and SCIE indexed.	10.1007/s10707-022-00479-w
8.	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, Pages 463 – 474, September 2022.	Impact Factor-7.926, Scopus and Web of Science indexed.	10.1016/j.psep.2022.07.019.
9.	M.P.Ramkumar T.Daniya P.Mano Paul S.Rajakumar	Intrusion detection using optimized ensemble classification in fog computing paradigm	Knowledge-Based Systems, Elsevier, Volume- 252, page-109364, September 2022.	Impact Factor-8.139, Scopus, Web of Science and SCI indexed.	10.1016/j.knosys.2022.109364
10.	N.Anita M.Vijayalakshmi S.Mercy Shalinie	Blockchain-based anonymous anti-counterfeit supply chain framework.	Sadhana, Springer vol-47, article number – 208, October 2022.	Scopus and SCIE indexed.	10.1007/s12046-022-01984-2
11.	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.

12.	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.	Impact Factor-4.397, Scopus and SCI indexed.	10.32604/csse.2023.032127
13.	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/IJIRR.316125.
14.	S.Abinaya A.Sherly Alphonse S.Abirami M.K.Kavithadevi	Enhancing Context-Aware Recommendation Using Trust-Based Contextual Attentive Autoencoder.	Neural Processing Letters, Springer, February 2023.	Impact Factor-3.1, Scopus and SCIE indexed.	https://doi.org/10.1007/s11063-023-11163-x
15.	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, February 2023.	Impact Factor-1.5, Scopus indexed.	10.1080/03772063.2023.2171910.
16.	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, Vol- 261, pp-110132, February 2023.	Impact Factor-8.139, Scopus, SCI and Web of Science indexed.	10.1016/j.knosys.2022.110132.

17.	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.
18.	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, March 2023.	Impact Factor-0.182, Scopus and Web of Science indexed.	10.17762/sfs.v10i2S.380
19.	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, March 2023.	Impact Factor-4.802.	10.1109/JSYST.2023.32 51970.
20.	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, March 2023.	Impact Factor-1.4.	10.32604/csse.2023.0255 16
21.	C.Senthilkumar Manikandan Thirumalaisamy Rajesh Kumar Dhanaraj Anand Nayyar	DNA Encoded Color Image Encryption Based on Chaotic Sequence from Neural Network	Journal of Signal Processing Systems, Springer vol - 95, pp:459–474, April 2023.	Impact Factor-1.8, Scopus and SCIE indexed	10.1007/s11265-023-01853- z

22.	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
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, Pages:364-371, April 2023.	-	-
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
26.	G.S.R.Emil Selvan R.Jagadeesh Kannan Sreenivasa Chakravarthi Sangapu S.Shalini Raji Pandurangan E.FantinIrudaya Raj	Novel Development of Fuzzy Controller Based Multi-Agent System for Efficient Navigation of Autonomous Robots	International Journal of Uncertainty, Fuzziness and Knowledge-Based SystemsVol. 31, No. Supp01, pp. 17-30, May 2023.	Impact Factor-1, Science Citation Index Expanded and Scopus indexed.	10.1142/S0218488523400020

27.	S.Charulatha C.Dharani M.Suguna	Transfer Learning based Diabetic Retinopathy Classification.	International Journal of Computing and Digital Systems, vol-14, issue-1, pp:1-1, May 2023.	Scopus indexed.	-
28.	C.Santhiya S.Padmavathi	An Efficient optimized CNN-LSTM forecasting model for combined replication and placement	Journal of Environmental Protection and Ecology, Vol-24, issue-6, 2023, pages:2058-2067.	Impact Factor-0.692, Science Citation Index Expanded and Scopus indexed.	-

Conferences 2022-2023

S.No.	Author Details	Title of Article	Publication Details
1.	R.J.Sai Madhumitha N.K.Vaishnavi P.Revathi	Diabetes Monitoring Using Ensembling Methods And Diabetic Retinopathy Stage Detection Using Resnet50 Model	12th International Conference On Science And Innovative Engineering, Jawahar Engineering College, June 2022.
2.	U.Ibrahim Badhusha KCKS.Sreemaan M.Arun Kumar K.Narasima Mallikarjunan	Integrated Approach For Dial-A-Ride Problem	12th International Conference On Science And Innovative Engineering, Jawahar Engineering College, June 2022.
3.	M.Nirmala Devi S.Poorna Prakash	Twitter Sentimental Analysis Improving Logistic Regression By Using Machine Learning Algorithm	12th International Conference On Science And Innovative Engineering, Jawahar Engineering College, June 2022.
4.	M.Nirmala Devi S.Roshini A.Priyankaa R.Mahalakshmi	Catboost Model	12th International Conference On Science And Innovative Engineering, Jawahar Engineering College, June 2022.
5.	M.NirmalaDevi S.Atchaya M.Kowsalya S.Deepajothi	Visual Exploration of Indian Startup Business Ideas	12th International Conference On Science And Innovative Engineering, Jawahar Engineering College, June 2022.

6.	R.T.Renjith G.Madhupriya S.Aiswaryah B.Srinivasan	Sales Prediction Model For Big Mart	12th International Conference On Science And Innovative Engineering, Jawahar Engineering College, June 2022.
7.	B.Rajamanju G.Swathi Priya Vishruti L.B Shanker M.Sivakumar	Municipal Solid Waste Segregation Using Residual Network	12th International Conference On Science And Innovative Engineering, Jawahar Engineering College, June 2022.
8.	R.Logeswari Saranya P.Ashokkumar M.Gokul Ananth	LEM Algorithm based IOT Enabled Smart Door Automation	First International Conference on Contemporary progress in Engineering & Technology, KGISL Institute of Technology, June 2022.
9.	B.Subbulakshmi M.Nirmala Devi J.Srimadhi	Human Action Recognition in a Smart Home using Deep Learning Techniques	International Conference on Artifical Intelligence, Blockchain, Computing and Security (ICABCS-2023), Galgotias University, Greater Noida, Uttar Pradesh, India, February 2023.
10.	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), P S G Institute of Technology and Applied Research Coimbatore, March 2023.
11.	I.Subasri G.S.R.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), pp: 305-310,IEEE, March 2023. 10.1109/ICAC3N56670.20.

12.	S.Deepa S.Nivetha K.Thulasi Lakshmi G.S.R.Emil Selvan M.P.Ramkumar	Routing Scalability in Named Data Networking	4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N),pp -1749-1753, IEEE, March 2023. 10.1109/ICAC3N56670.2022.10074549.
13.	M.Mahalakshmi M.P.Ramkumar, G.S.R.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),pp:332-337, IEEE, March 2023. 10.1109/ICAC3N56670.2022.10074251.
14.	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, pp. 1-4, March 2023. Scopus indexed. 10.1109/ICITIIT57246.2023.10068666.
15.	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, pp. 1-5, March 2023. Scopus indexed. 10.1109/ICITIIT57246.2023.10068579
16.	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.
17.	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

18.	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.
19.	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), Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India, April 2023.
20.	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, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India, April 2023.
21.	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 Gandhinagar University, April 2023.
22.	M.M. Sangeetha M.K. Kavitha Devi	Performance Analysis of Air Pollution PredictionUsing Machine Learning Algorithms	International Conference on Emerging Trends in Social, Business and Management Science Research, ICSBMR-2023, VIT Business School, Vellore Institute of Technology, Chennai, India, May 2023.
23.	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, Organization of Science and Innovation Engineering & Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Chennai, May 2023.
24.	S.Prithika E.Dhatshaeni C.Senthil Kumar	Stock Market Prediction using Hybrid CNN-LSTM	Thirteenth International Conference on Advances in Computer Engineering – ACE 2023 , Trivandrum, India,May 2023.

Book Chapters 2022-2023

S.No.	Author Details	Title of Article	Publication Details
1.	J.Dharani K.Sundarakantham Kunwar Singh S.Mercy Shalinie	Obfuscation techniques for a secure endorsement system in Hyperledger Fabric	International Conference on Network Security and Blockchain Technology at Indian Statistical Institute (ISI), Kolkata, December 2021, Lecture Notes in Networks and Systems, vol 481. Springer, Book Series, Singapore, June 2022. Scopus Indexed. 10.1007/978-981-19-3182-6_12.
2.	V.Shuruthi K.Keerthana M.Sudha U.Ibrahim Badhusha M. Vijayalakshmi Vignaraj Ananth	Enabling Sign Language Recognition Feature in Video Conferencing	9th International Conference Indian Society of Ergonomics, Humanizing Work and Work Environment, 2021, IIT Guwahati,Lecture Notes in Networks and Systems, vol 391. Springer, Cham. Book Series, June 2022. Scopus indexed. 10.1007/978-3-030-94277-9_104.
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, January 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. Lecture Notes in Electrical Engineering, vol 998. Springer, Singapore, May 2023. Scopus indexed. 10.1007/978-981-99-0047-3_26.

5.	I.Gokul Ganesh A.Selva Sugan 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. Lecture Notes in Electrical Engineering, vol 998. Springer, Singapore, May 2023. Scopus indexed. 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. Lecture Notes in Electrical Engineering, vol 998. Springer, Singapore, May 2023. Scopus indexed. 10.1007/978-981-99-0047-3_28.
7.	M.D.Harsha Prada A.S.Sri Saila B.Subbulakshmi M.Nirmala Devi	Semi Supervised Approach with Entity Embedding for Heart Disease Prediction	International Conference on Information Systems and Management Science, Lecture Notes in Networks and Systems book series, Springer, volume 671, May 2023. Scopus indexed. 10.1007/978-3-031-31153-6_44.