

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



Faculty Publications

Journals 2021-2022

S.No.	Author Details	Title of Article	Publication Details	Indexing Details	DOI
1.	S.Sivagami P.Chitra	Performance analysis of classification and segmentation of cysts in panoramic dental images using convolutional neural network architecture	International Journal of Imaging Systems and Technology, Wiley, volume:31, issue:4, pages:2214-2225, July 2021.	Scopus and Web of Science Indexed, Impact Factor: 2.	10.1002/ima.22625
2.	P.Sasikala C.Santhiya K.Swetha	Conflict Management in Workplace	PalArch's Journal of Archaeology of Egypt/Egyptology, August 2021.	-	-
3.	J.Felicia Lilian K.Sundarakantha m. S. Mercy Shalinie.	QeCSO: Design of hybrid Cuckoo Search based Query expansion model for efficient information retrieval.	Sadhana, Springer, volume- 46, issue-3, pages 1-11, September 2021.	Scopus and SCIE indexed	10.1007/s12046-021-01706-0
4.	M.Suguna R.Kaveri VA.Sree M.Hemalatha NB.Balamurugan	Modeling and Simulation Based Investigation of Triple Material Surrounding Gate Tunnel FET for Low Power Application	Silicon, Springer, volume - 14, issue-5, pages- 2363-2371, September 2021	Scopus and SCIE indexed, Impact Factor- 2.941	10.1007/s12633-021-01368-x

5.	C.Sridharan S.Parthasarathy	Software productivity- based performance assessment of projects of startups	International Journal of Business Information Systems, Inderscience, volume-38, issue-1, pages: 129-144, October 2021.	Scopus Indexed	10.1504/IJBIS.2021.118634
6.	Raja Lavanya K.Sundarakantham S Mercy Shalinie	Cost Effective Decentralized Key Management Framework for IoT	Computer Systems Science and Engineering volume- 41,issue-3, pages - 1057-1070, November 2021.	Scopus and SCIE indexed, Impact Factor- 4.397	10.32604/csse.2022.021052
7.	Elangovan Ramanuja C.Santhiya S.Padmavathi	Day-level Forecasting of COVID-19 Transmission in India using variants of supervised LSTM models: Modeling and Recommendations	Journal of Information Technology Research, Volume-15, Issue- 01,pages-01 - 14, Jan 2022.	Web of Science Emerging Sources Citation Index (ESCI)	10.4018/JITR.299376
8.	K.Abhirami M.K.Kavitha Devi	Student Behavior Modeling for an E-Learning System Offering Personalized Learning Experiences	Computer Systems Science & Engineering, Tech Science Press, volume-40, issue- 3, pages: 1127-1144, January 2022.	Impact Factor: 1.486, Scopus, SCI and Web of Science Indexed	10.32604/csse.2022.020013
9.	M.Vijayalakshmi S.Mercy Shalinie Yang M.H. Lai S.C. Luo J.N.	A Block chain-Based Secure Radio Frequency Identification Ownership Transfer Protocol	Security and Communication Networks, Hindawi, volume-2022, January 2022.	Impact Factor: 1.791, Scopus, SCIE and Web of Science Indexed	10.1155/2022/9377818

10.	S.Abirami P.Chitra	Regional spatio-temporal forecasting of particulate matter using autoencoder based generative adversarial network	Stochastic Environmental Research and Risk Assessment, Springer, pages:1-22, January 2022.	Impact Factor: 3.379, Scopus, SCI and SCIE Indexed.	10.1007/s00477-021-02153-3
11.	M.Suguna V.Charumathi M.Hemalatha NB.Balamurugan D.Sriram Kumar P.Suveetha Dhanaselvam	Novel Attributes and Analog Performance Analysis of Dual Material Gate FINFET Based High Sensitive Biosensors	Silicon, Springer, volume - 14, issue-5, pages - 2389-2396, February 2022.	Scopus and SCIE indexed, Impact Factor- 2.941	10.1007/s12633-022-01682-y
12.	Yang M.H Luo J.N M.Vijayalakshmi S.Mercy Shalinie	Contactless Credit Cards Payment Fraud Protection by Ambient Authentication.	Sensors, volume-22, issue-5, pages-22, March 2022	Scopus and Web of Science Indexed, Impact Factor: 4.050	10.3390/s22051989
13.	Suryakiran Sureshkumar GnanaEswar Mathan Praseetha RI Madhupriya Govindarajan	Deep learning framework for component identification	International Journal of Information Technology, Springer, March 2022.	Scopus Indexed, Impact Factor:0.947.	10.1007/s41870-022-00895-z
14.	M. Suguna V. A. Nithya sree R. Kaveri M. Hemalatha N. B. Balamurugan D. Sriramkumar	Analytical modeling and Simulation Based Investigation of Triple material surrounding gate heterojunction tunnel FET	Silicon, Springer, volume - 14, pages - 10729 - 10740, March 2022.	Scopus and SCIE indexed, Impact Factor- 2.941	10.1007/s12633-022-01687-7

	P. Suveetha Dhanaselvam				
15.	N. Anita M.Vijayalakshmi S. Mercy Shalinie	A Lightweight Scalable and Secure Blockchain Based IoT Using Fuzzy Logic	Wireless Personal Communications, Springer, volume 125, pages:2129–2146, March 2022.	Scopus and SCIE indexed, Impact Factor- 2.017	10.1007/s11277-022-09648-4
16.	M.Sivakumar P.Renuka P.Chitra S.Karthikeyan	IoT incorporated deep learning model combined with SmartBin technology for real-time solid waste management.	Computational Intelligence, Wiley, volume-38, issue-2, pages 323-44, April 2022.	Scopus Indexed.	10.1111/coin.12495
17.	M.Suguna V.Charumathi N. B. Balamurugan M. Hemalatha D. Sriram Kumar	Machine Learning-based Multi-objective Optimisation of Tunnel Field Effect Transistors	Silicon, Springer, April 2022	Scopus and SCIE indexed, Impact Factor- 2.941	10.1007/s12633-022-01841-1
18.	J.Dharani K.Sundarakantham Kunwar Singh S.Mercy Shalinie	A Privacy-Preserving Framework for Endorsement Process in Hyperledger Fabric	Computers & Security Journal, Elsevier Volume -116, page-102637, May 2022.	Scopus and SCIE indexed, Impact Factor-5.105	10.1016/j.cose.2022.102637
19.	M.P.Ramkumar P.V. BhaskarReddy J.T.Thirukrishna Ch.Vidyadhari	Intrusion detection in big data using hybrid feature fusion and optimization enabled deep learning based on spark architecture	Computers & Security Journal, Elsevier Volume -116, page-102668, May 2022.	Scopus and SCIE indexed, Impact Factor-5.105	j.cose.2022.102668

20.	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.	-	-
21.	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 July 2022, pages- 595–624, World Scientific Publishing Company.	Scopus and SCIE indexed, Impact Factor-1.027	10.1142/S0218488522500155

Conferences 2021-2022

S.No.	Author Details	Title of Article	Publication Details
1.	M.Yogamahalakshmi M.Vijayalakshmi S.Lavanya B.Saranya	Credit Card Fraud Detection using CNN	6 th International Conference on Internet of Things and Connected Technologies (ICIoTCT), IIT Patna, July 2021.
2.	AS. Abdullah R.Parkavi S.Pudumalar C.Santhiya	Semantic correction system using neural networks	AIP Conference Proceedings, October 2021.
3.	R.Logeswari Saranya K.Umamaheshwari	Multiple Face Analysis and Liveness Detection using CNN	International Conference on Artificial Intelligence for Sustainable Applications, P S G College of Technology, December 2021.
4.	R.Ramprasad S.Pradhiksha K.Sundarakantham R.Harine Rajashree S.Mercy Shalinie	A partitioned Task offloading Approach for Privacy Preservation at Edge	2 nd International Conference on Big Data, Machine Learning and Applications (BigDML 2021) at National Institute of Technology Silchar, India, December 2021.
5.	B.R.Harini Priya K.Kannimalar S.B.Saranya B.Subbulakshmi	A machine learning approach for Personalized Job recommendation system	International Conference on Communication and Intelligent Systems, December 2021, National Institute of Technology Delhi, India.
6.	M.Sathya Thendral M.K. Kavitha Devi	Machine learning approach for Organic Manure Recommendation System	Proceeding in ICBAI-2021 - 8th International Conference on Business Analytics and Intelligence, December 2021
7.	N.Anita M.Vijayalakshmi	IoT Security in Supply Chain Using Blockchain	2 nd International Conference on Communication, Computing and Industry 4.0 (C2I4), 2021, pp. 1-6, December 2021. 10.1109/C2I454156.2021.9689263.

8.	M. Nirmala Devi S. Mahima R. Ramupriya Sumaya Abdul Sathar	Improvised CNN model to Predict SARS by Detecting the Localisation of Proteins	IEEE International conference of Electronics, Communication and Aerospace Technology (ICECA), December 2021.
9.	K.T.L Kalaivani K.Narasima Mallikarjunan	COVID-19 identification using transfer learning with VGG-19 and Inception V3 networks	Eighth International Conference on Business Analytics and Intelligence(ICBAI 2021), Indian Institute of Science Bangalore, December 2021.
10.	T.Divyadharshini S. Prasanna	Content Based Image Compression Scheme Using Lempel Ziv Markov chain Algorithm	3 rd International Conference on Machine Learning, Image Processing, Network Security and Data Sciences,National Institute of Technology (NIT) Raipur, Chhattisgarh, India,December 2021.
11.	R.Leena Sri Divya Vetriveeran, Rakoth Kandan Sambandan	3D CNN based Classification of Severity in Covid-19 in CT images	International Conference on Data Science and Applications (ICDSA 2022),March 2022 at Jadavpur University, Kolkata, India.
12.	S. Suryakiran M. GnanaEswar RI. Praseetha G.Madhupriya	Deep learning framework for component identification	International Journal of Information Technology, Springer pages: 1-9, March 2022, Scopus Indexed. 10.1007/s41870-022-00895-z,
13.	M.P.Ramkumar G.S.R.Emil Selvan M.Mahalakshmi	Goodput improvement with low-latency in Data Center Network	4 th International Conference on Machine Intelligence and Signal Processing (MISP2022), National Institute of Technology, Raipur, March 2022.
14.	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	International Conference on Machine Intelligence and Signal Processing (MISP2022), March 2022, National Institute of Technology Raipur, India.

15.	I.Gokul Ganesh A.Selva Sujan S.Hariharan M.P.Ramkumar M.Mahalakshmi G.S.R Emil Selvan	HDD Failure Detection Using Machine Learning with The Cloud Computing Resources	International Conference on Machine Intelligence and Signal Processing (MISP2022), March 2022, National Institute of Technology Raipur, India.
16.	Anita N Vijayalakshmi M	RIM: A Reputation-Based Incentive Mechanism using Blockchain	IEEE - International Conference on Innovative Trends in Information Technology (ICITIIT), April 2022, Scopus Indexed. 10.1109/ICITIIT54346.2022.9744241
17.	M.Sivakumaran B.Subbulakshmi	A Survey on Employee Turnover Prediction using Machine Learning Algorithm	International Conference on Recent Trends in Engineering & Technology, Kamaraj College of Engineering & Technology, April 2022.
18.	S.Karthi balan M.Mohamed Sameem S.Naveenprasanth B.Subbulakshmi	PC Gesture Control	International Conference on Recent Trends in Engineering & Technology, Kamaraj College of Engineering & Technology, April 2022.
19.	N.U.Sri Raaghav S.K.Aathikrishna T.Anbumani B.Subbulakshmi	Online Proctoring System	International Conference on Artificial Intelligence: Advances and Applications, April 2022.
20.	S.Jayasubha C.Senthilkumar	Attempt to Classify Tree Species Using Machine Learning Algorithm with Spatial Data	10 th International Conference On Contemporary Engineering And Technology 2022 (ICCET), May 2022.
21.	D.Senthoor Leena S.Suvetha C.Senthilkumar	Performance Analysis Of Machine Learning And Deep Learning Algorithms In Credit Card Fraud Detection	10 th International Conference On Contemporary Engineering And Technology 2022 (ICCET), May 2022.
22.	R.J.Sai Madhumitha N.K.Vaishnavi P.Revathi	Diabetes Monitoring Using Ensembling Methods And Diabetic Retinopathy Stage Detection Using Resnet50 Model	12 th International Conference On Science And Innovative Engineering, June 2022, Jawahar Engineering College.

23.	U.Ibrahim Badhusha KCKS.Sreemaan M.Arun Kumar K. Narasima Mallikarjunan	Integrated Approach For Dial-A-Ride Problem	12 th International Conference On Science And Innovative Engineering, June 2022, Jawahar Engineering College.
24.	M.Nirmala Devi S.Poorna Prakash	Twitter Sentimental Analysis Improving Logistic Regression By Using Machine Learning Algorithm	12 th International Conference On Science And Innovative Engineering, June 2022, Jawahar Engineering College.
25.	M. Nirmala Devi S. Roshini A. Priyanka R. Mahalakshmi	Catboost Model	12 th International Conference On Science And Innovative Engineering, June 2022, Jawahar Engineering College.
26.	M.NirmalaDevi S.Atchaya M.Kowsalya S.Deepajothi	Visual Exploration of Indian Startup Business Ideas	12 th International Conference On Science And Innovative Engineering, June 2022, Jawahar Engineering College.
27.	R.T.Renjith G.Madhupriya S.Aiswaryah B.Srinivasan	Sales Prediction Model For Big Mart	12 th International Conference On Science And Innovative Engineering, June 2022, Jawahar Engineering College.
28.	B.Rajamanju G.Swathi Priya Vishruti L.B Shanker M.Sivakumar	Municipal Solid Waste Segregation Using Residual Network	12 th International Conference On Science And Innovative Engineering, June 2022, Jawahar Engineering College.
29.	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.

Book Chapters 2021-2022

S.No.	Author Details	Title of Article	Publication Details
1.	M.Nirmala Devi J.Blessy Karunya	Revealing Heritage And Development Of A Tourist Place Through Augmented Reality	Big Data Analytics for Business Intelligence -Descriptive Case Studies On Smart Tourism in India, July 2021.
2.	A. B. Yugakiruthika A. Malini	A Comprehensive Tool Survey for Blockchain to IoT Applications	Data Engineering for Smart Systems Conference, Lecture Notes in Networks and Systems, vol 238. Springer, Singapore, Book series, November 2021, Scopus Indexed. 10.1007/978-981-16-2641-8_9.
3.	A. B. Yugakiruthika A. Malini	Security Testing for Blockchain Enabled IoT System.	Data Engineering for Smart Systems conference, Lecture Notes in Networks and Systems, vol 238. Springer, Singapore, Book Series, November 2021, Scopus Indexed. 10.1007/978-981-16-2641-8_5.
4.	J.Dharani K.Sundarak antham 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, Scopus Indexed. June 2022 10.1007/978-981-19-3182-6_12
5.	V.Shuruthi K.Keerthana M.Sudha U.Ibrahim Badhusa M. Vijayalakshmi Vignaraj Ananth	Enabling Sign Language Recognition Feature in Video Conferencing	9 th 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

6.	V. Vignaraj Ananth R. Sarunisha S. Aditya M. Haripriya M. Bhuvaneshwari	Monitoring and Assessment of Water Bodies in Madurai Using Geo-Spatial Data.	ICT Systems and Sustainability Conference, Lecture Notes in Networks and Systems, vol 321. Springer, Singapore, Book Series, January 2022, Scopus Indexed. 10.1007/978-981-16-5987-4_31.
7.	R. Leena Sri Divya Vetriveeran	Kubernetes for Fog Computing - Limitations and Research Scope.	International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2021): Innovations in Bio-Inspired Computing and Applications pp 351–361, Lecture Notes in Networks and Systems, vol 419. Springer, Cham, Book Series, February 2022, Scopus Indexed. 10.1007/978-3-030-96299-9_34.
8.	S.Abinaya M.K.Kavitha Devi	Trust-Based Context-Aware Collaborative Filtering Using Denoising Autoencoder	Pervasive Computing and Social Networking, Springer, pages: 35-49, January 2022. (Book Chapter) Lecture Notes in Networks and Systems, vol 317. Springer, Singapore, Book Series. Scopus Indexed 10.1007/978-981-16-5640-8_4.