

Department of Computer Science and Engineering

Journal and Conference Publications, 2019 - 2020

International Journal Publications

1. Madheswari.K, Venkateswaran.N, "Particle Swarm Optimization aided Weighted Averaging Fusion Strategy for CT and MRI Medical Images", International Journal of Biomedical Engineering and Technology", Vol.31(3), July 2019, pp.278-289. [SJR:0.2]
2. Sujaudeen, N & Mirnalinee, TT, "TARNN Task Aware Autonomic Resource Management using Neural Networks in Cloud Environment", Concurrency and computation: Practice and Experience, August 2019, Wiley, <https://doi.org/10.1002/cpe.5463> [Online First]. (Thomson Reuters IF: 1.167)
3. Sujaudeen, N & Mirnalinee, TT, "A Novel Dynamic Data Replication Strategy To Improve Access Efficiency Of Cloud Storage", Information Systems and e-Business Management, Springer, August 2019. <https://doi.org/10.1007/s10257-019-00422-x> [Online First]. (Thomson Reuters IF: 1.621)
4. Venkataramana, L., Jacob, S. G., Ramadoss, R., Saisuma, D., Haritha, D., & Manoja, K, "Improving Classification Accuracy Of Cancer Types Using Parallel Hybrid Feature Selection On Microarray Gene Expression Data", Genes & Genomics, Vol.41 (11) , August 2019, pp. 1301-1313. (Thomson Reuters IF: 0.759)
5. N.Venkatesvara Rao, D.Venkata Vara Prasad, Rajesh. M "An Augmented Reality Multimedia (ARM): A Dynamic Multimedia Encyclopedia on Mobile Device", International Journal of Innovative Technology and Exploring Engineering (IJITEE) Vol.8(11S), September 2019, pp.1298-1302, ISSN: 2278-3075.
6. Jansi Rani SV, Priyadharsini R and Kavya R, "Advanced Driver Assistance System using Image Processing Techniques", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.9(2), December 2019, pp-3377-3382, ISSN:2278-3075.
7. Bharathi B, Bhuvana J, "Human Activity Recognition using Deep and Machine Learning Algorithms", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.9(4), February 2020, pp.2460 - 2466. ISSN: 2278-3075.
8. Sarath Chandran K. R and Premanand V. Chandramani, "Energy- efficient system-on-chip reconfigurable architecture design for sum of absolute difference computation in motion estimation process of H.265/HEVC video encoding", International Journal of

Concurrency and Computation: Practices and Experience.[Online First: July 2019] (**Thomson Reuters IF**:1.167), (<https://doi.org/10.1002/cpe.5461>).

9. Sarath Chandran K R, and Premanand Venkatesh Chandramani, "Hardware software codesign framework for sum of absolute difference based block matching in motion estimation", Journal of Microprocessors and Microsystems (Elsevier), Vol.74. [Online First February 2020] (**Thomson Reuters IF**: 1.045) <https://doi.org/10.1016/j.micpro.2020.103012>).
10. Ambika, M., Raghuraman, G., SaiRamesh, L, Ayyasamy, A, "Intelligence – based decision support system for diagnosing the incidence of hypertensive type", Journal of Intelligent & Fuzzy Systems, Vol. 38(2), February 2020, pp. 1811-1825.
11. M Ambika, G Raghuraman, L SaiRamesh, "Enhanced decision support system to predict and prevent hypertension using computational intelligence techniques", Soft Computing, February 2020. [Online First] <https://doi.org/10.1007/s00500-020-04743-9>
12. Lokeswari Venkataramana, Shamona Gracia Jacob, S.Saraswathi and D.VenkataVara Prasad "Identification of common and dissimilar biomarkers for different cancer types from gene expression of RNA sequencing data", Journal of Gene Reports, Elseiver, March 2020, **pp.** 2524-0144. ISSN-100654.
13. H.Shahul Hamead, T.T.Mirnalinee, D.Kavipriya, " Emulation of burst-based adaptive link rates in NetFPGA towards green networking", Turkish Journal Of Electrical Engineering and Computer Sciences Vol.28(3), May 2020, pp.1246-1263. DOI: 10.3906/elk-1906-180. (**Thomson Reuters IF**:0.7)
14. M. Saritha and R. S. Milton, "A probabilistic logic approach to outcome prediction in team games using historical data and domain knowledge", Journal of Ambient Intelligence and Humanized Computing, Springer, May 2020. (**Thomson Reuters IF**: 1.91) <https://doi.org/10.1007/s12652-020-01989-x> (Online First).

International Conference Publications

1. Chamundeswari Arumugam,Varsha Bhargavi Dwarakanathan, S. Gnanamary, Vishalraj Natarajan Neyveli, Rohit Kanakuppaliyalil Ramesh, Yeshwanthraa Kandhavel, and Sadhanandhan Balakrishnan, "Prediction of SQL Injection Attacks in Web Applications", 19th International Conference Computational Science and Its Applications – ICCSA 2019, Saint Petersburg, Russia, July 1–4, 2019, Springer LNCS 11622.
2. Kavitha S, Nandhinee P R, Harshana S, Jahnvi Srividya S and Harrinei K, "ImageCLEF 2019: A 2D Convolutional Neural Network Approach for Severity Scoring of Lung Tuberculosis using CT Images", July CLEF 2019, <http://ceur-ws.org/Vol-2380/>.

3. D. Thenmozhi, Chandrabose Aravindan, Abishek Shyamsunder, Adithya Vishwanathan and Akash Kumar Pujari, "Extracting Protests from News using LSTM Models with different Attention Mechanisms", July CLEF 2019, <http://ceur-ws.org/Vol-2380/>.
4. Akshaya Ranganathan, Haritha A, Thenmozhi D, Chandrabose Aravindan, "Early detection of anorexia using RNN-LSTM and SVM classifiers", July CLEF 2019, <http://ceur-ws.org/Vol-2380/>.
5. S. Kayalvizhi, D. Thenmozhi and Chandrabose Aravindan, "Deep Learning Approach for Semantic Indexing of Animal Experiments Summaries in German Language", July CLEF 2019, <http://ceur-ws.org/Vol-2380/>.
6. Nanda H Krishna, Praveen Kumar R, Ram Kaushik R, Mirunalini P, Aravindan Chandrabose and Jaisakthi S M, "Species Recommendation using Machine Learning", Working Notes of July GeoLifeCLEF 2019, <http://ceur-ws.org/Vol-2380/>
7. Jaisakthi S M, Mirunalini Palaniappan and Aravindan Chandrabose, "Coral Reef Annotation and Localization using Faster R-CNN", ImageCLEF September 2019, <http://ceur-ws.org/Vol-2380/>
8. S Kayalvizhi, D Thenmozhi, B Senthil Kumar, Chandrabose Aravindan, SSN NLP@ IDATFIRE-2019: Irony Detection in Arabic Tweets using Deep Learning and Features-based Approaches, IDAT@ FIRE December 2019, CEUR-WS, Vol.2517, pp.439-444.
9. S Kayalvizhi, D Thenmozhi, C Aravindan, "Legal assistance using word embeddings", CEUR-WS, Vol. 2517, pp.36-39, FIRE December 2019.
10. Akshaya Ranganathan, Haritha Ananthakrishnan, D Thenmozhi, C Aravindan, "Classification of Insincere Questions using SGD Optimization and SVM Classifiers", CEUR-WS, Vol. 2517, pp.463-467, FIRE December 2019.
11. Haritha Ananthakrishnan, Akshaya Ranganathan, D Thenmozhi, C Aravindan, "Arabic Author Profiling and Deception Detection using Traditional Learning Methodologies with Word Embedding", CEUR-WS, Vol. 2517, pp.100-104, FIRE December 2019.
12. Angel Deborah S., Rajalakshmi S., Milton Rajendram S., Mirnalinee T.T., "Contextual Emotion Detection in Text Using Ensemble Learning", Lecture Notes on Data Engineering and Communications Technologies, Vol 35, Springer, Cham November 2019, pp.1179-1186.. https://doi.org/10.1007/978-3-030-32150-5_121
13. Beulah A., Sree Sharmila T., Kanmani T., "Spinal Cord Segmentation in Lumbar MR Images", Lecture Notes on Data Engineering and Communications Technologies, vol 35, November 2019, pp. 1226-1236, Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-32150-5_124
14. S. Saraswathi, Vallidevi Krishnamurthy, D. Venkata Vara Prasad, Tarun R K, S Abhinav, D.Rushitaa, "Machine Learning Based AD-click Prediction System", International Journal of Engineering and Advanced Technology (IJEAT), Vol.8(6), August 2019, pp.2646-3648. ISSN: 2249 – 8958
15. Sheerin Sitara N and Kavitha Srinivasan, "Comparative Analysis of Deep Neural Networks for Crack Image Classification", Lecture Notes on Data Engineering and Communications Technologies, Vol 38. Springer, November 2019.

16. N Mangayarkarasi, G Raghuraman, S Kavitha, "Influence of Computer Vision and IoT for Pipeline Inspection-A Review", IEEE-Second International Conference on Computational Intelligence in Data Science (ICCIDS-2019), September 2019.
17. A. Subashini, G. Raghuraman, L. Sai Ramesh, "Enhancing the Classification Accuracy of Cardiac Diseases using Image Denoising Technique from ECG signal", IEEE-Second International Conference on Computational Intelligence in Data Science (ICCIDS-2019), September 2019.
18. B. Senthil Kumar, D. Thenmozhi, C. Aravindan, S. Kayalvizhi, "Tamil Paraphrase Detection using Long-Short Term Memory Networks", Tamil Internet Conference-2019 (TIC2019), September 2019, ISSN 2313-4887.
19. Vignesh Hariharan K, Santhosh J, Santhosh S, Sree Hari R, Sri Krishna M, Angel Deborah S, Rajalakshmi S and Beulah A , "Smart wildlife vehicle collision detection system", First International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019), September 26-27, 2019, Department of Chemical Engineering, SSN College of Engineering.
20. Ujjwel Balwal, Varshini Balaji, Sivakami K, Srinivasa Arun, Yeragudupati, Angel Deborah S, Rajalakshmi S and Saritha M , "Neural network based forest surveillance system", First International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019), September 26-27, 2019, Department of Chemical Engineering, SSN College of Engineering.
21. Angel Deborah S, Rajalakshmi S, S Milton Rajendram, Mirnalinee T T and Ujjwel Balwal , "Fossil fuel emission prediction system using machine learning techniques", First International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019), September 26-27, 2019, Department of Chemical Engineering, SSN College of Engineering.
22. S.Rajalakshmi, Angel Deborah S, S Milton Rajendram, Mirnalinee T T, M.S. Pranathy and S. Ranjana , "Weather prediction and forecasting system using ensemble techniques", First International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019), September 26-27, 2019, Department of Chemical Engineering, SSN College of Engineering.
23. S.V.Jansi Rani, K.R.Sarath Chandran, Akshaya Ranganathan, M.Chandrasekharan, Deepsheka.G, Janani.B, "Wearable Heart Disease Monitor", First International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019), September 26-27, 2019, Department of Chemical Engineering, SSN College of Engineering.
24. Saritha M, S Milton Rajendram, Kavithasri A, Aishvarya S "Prediction of Biodegradability using Relational Dependency Network", First International Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2019), September 26-27, 2019, Department of Chemical Engineering, SSN College of Engineering..
25. Jaisakthi S M, Mirunalini P, Thenmozhi D and Vatsala, "Grape Leaf Disease Identification using Machine Learning Techniques," IEEE International Conference on Computational Intelligence in Data Science (ICCIDS), September 2019, Chennai, India, pp. 1-6.

26. Jaisakthi S M, Mirunalini Palaniappan and Aravindan Chandrabose, "Coral Reef Annotation and Localization using Faster R-CNN", Working Notes of CLEF September 2019, pp.1-6, http://ceur-ws.org/Vol-2380/paper_90.pdf,
27. P.Mirunalini , "Segmentation of Coronary Arteries from CTA axial slices using Deep Learning techniques", IEEE Region 10 conference TENCON 2019, 17th -20th October 2019, Kochi, Kerala, pp.2074-2080.
28. Felix Enigo V.S., "Rainfall Prediction Using Fuzzy Neural Network with Genetically Enhanced Weight Initialization", Lecture Notes on Data Engineering and Communications Technologies, Vol 35. Springer, November 2019.
29. Mohan Sha S., Nikhil S., Nitin K.R., Felix Enigo V.S., "Smart Mirror: A Device for Heterogeneous IoT Services", Lecture Notes on Data Engineering and Communications Technologies, Vol 35. Springer, November 2019.
30. Singhal, Himanshu, Harish Ravi, Sathiya Narayan Chakravarthy, Prabavathy Balasundaram, and Chitra Babu, "EPMS: A framework for large-scale patient matching", 31st IEEE International Conference on Tools with Artificial Intelligence (ICTAI), Baltimore, MD, USA, November 9 – 11, 2019, pp. 1096-1101.
31. M. G. Kumar, S. R. Kumar, S. M. S, B. Bharathi and H. A. Murthy, "Spoof Detection Using Time-Delay Shallow Neural Network and Feature Switching," 2019 IEEE Automatic Speech Recognition and Understanding Workshop (ASRU), SG, Singapore, 14-18 December 2019, pp. 1011-1017, doi: 10.1109/ASRU46091.2019.9003824.
32. V.S. Felix Enigo, "An Automated System for Crime Investigation using Conventional and Machine Learning Approach", Lecture Notes on Data Engineering and Communications Technologies, Springer, Vol.46, January 2020, pp.109-117.
33. Arumugam Chamundeswari and Saraswathi Shanmuganathan , "Digital Forensics : Essential Competencies of Cyber Forensics Practitioners", Springer MOSICOM 2020, BITS Pilani, Dubai campus, UAE, January 29-31, 2020.
34. Saranya S., Rupesh Kumar S., Bharathi B. (2020) "Deep Learning Approach: Detection of Replay Attack in ASV Systems". In: Reddy V., Prasad V., Wang J., Reddy K. (eds) Soft Computing and Signal Processing. ICSCSP 2019. Advances in Intelligent Systems and Computing, Vol. 1118. Springer, Singapore, March 2020.
35. Akshara S., Hemapriyalakshmi R., Keerthana S., Bharathi B., Kavitha S. (2020) "Acoustic Scene Classification Using Convolutional Neural Network". In: Reddy V., Prasad V., Wang J., Reddy K. (eds) Soft Computing and Signal Processing. ICSCSP 2019. Advances in Intelligent Systems and Computing, Vol. 1118. Springer, Singapore, March 2020.
36. Sharmadha S., Shivani K., Shruthi K., Bharathi B., Kavitha S. (2020) "Automatic Speech Recognition Using Deep Neural Network". In: Reddy V., Prasad V., Wang J., Reddy K. (eds) Soft Computing and Signal Processing. ICSCSP 2019. Advances in Intelligent Systems and Computing, Vol. 1118. Springer, Singapore, March 2020.
37. Shreyas Sriram, Susheel Polani Sathishkumar, and J. Bhuvana, "Braille Based Steganography System Using Dynamic Key Exchange", In International Symposium on Security in Computing and Communication (SSCC) 2019, CCIS Vol. 1208, pp. 360–373, 2020, Springer, Singapore.
38. D.VenkataVara Prasad, Lokeswari Y. Venkataramana, B. Priyanka, B. Priyanka, Shrinidhi Rajagopal "An Efficient Pre-Processing Method for Improved Classification

of Diabetics using Decision Tree and Artificial Neural Network”, AIP Conference proceedings, , Vol. 2161(1):020057, October 2019.