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### Designation :

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**Areas of specialization** : Machine Learning , Logic Programming, Pattern Recognition, Image Analysis, Text Analysis

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### List Of Publications

- 1) Vasuki, P., and Chandrabose Aravindan. "Hierarchical classifier design for speech emotion recognition in the mixed-cultural environment." Journal of Experimental & Theoretical Artificial Intelligence (2020): 1-16.
- 2) Rajalakshmi, R., Raymann, J., Prabu, A., & Aravindan, C. "Deep URL: design of adult URL classifier using deep neural network." Proceedings of the International Conference on Advanced Information Science and System. 2019.
- 3) Mirunalini, P., Aravindan, C., Nambi, A. T., Poorvaja, S., & Priya, V. P. "Segmentation of Coronary Arteries from CTA axial slices using Deep Learning techniques." TENCON 2019-2019 IEEE Region 10 Conference (TENCON). IEEE, 2019.
- 4) Thenmozhi, D., Srinethe Sharavanan, and Aravindan Chandrabose. "SSN\_NLP at SemEval-2019 Task 6: Offensive Language Identification in Social Media using Traditional and Deep Machine Learning Approaches." Proceedings of the 13th International Workshop on Semantic Evaluation. 2019.
- 5) Thenmozhi, D., Aravindan Chandrabose, and Srinethe Sharavanan. "SSN\_NLP at SemEval-2019 Task 3: Contextual Emotion Identification from Textual Conversation using Seq2Seq Deep Neural Network." Proceedings of the 13th International Workshop on Semantic Evaluation. 2019.
- 6) Mirunalini, Palaniappan, Chandrabose Aravindan, and S. M. Jaisakthi. "Automatic stenosis detection using SVM from CTA projection images." Multimedia Systems 25.2 (2019): 83-93.

- 7) Ranganathan, A., Ananthakrishnan, H., Thenmozhi, D. and Aravindan, C. "Classification of Insincere Questions using SGD Optimization and SVM Classifiers." FIRE (Working Notes). 2019.
- 8) Kayalvizhi, S., Thenmozhi, D. and Aravindan, C., Legal Assistance using Word Embeddings. In FIRE (Working Notes) (pp. 36-39). 2019.
- 9) Ananthakrishnan, H., Ranganathan, A., Thenmozhi, D. and Aravindan, C., Arabic Author Profiling and Deception Detection using Traditional Learning Methodologies with Word Embedding. In FIRE (Working Notes) (pp. 100-104). 2019.
- 10) Kayalvizhi, S., Thenmozhi, D., Kumar, B.S. and Aravindan, C. SSN\_NLP@ IDAT-FIRE-2019: Irony Detection in Arabic Tweets using Deep Learning and Features-based Approaches. In FIRE (Working Notes) (pp. 439-444). 2019.
- 11) Ranganathan, Akshaya, et al. "Early Detection of Anorexia using RNN-LSTM and SVM Classifiers." CLEF (Working Notes). 2019.
- 12) Jaisakthi, S. M., Palaniappan Mirunalini, and Chandrabose Aravindan. "Coral Reef Annotation and Localization using Faster R-CNN." CLEF (Working Notes). 2019.
- 13) Kayalvizhi, S., D. Thenmozhi, and Chandrabose Aravindan. "Deep Learning Approach for Semantic Indexing of Animal Experiments Summaries in German." (2019).
- 14) Thenmozhi, D., Chandrabose Aravindan, Abishek Shyamsunder, Adithya Viswanathan, and Akash Kumar Pujari. "Extracting Protests from News Using LSTM models with different Attention Mechanisms." In CLEF (Working Notes). 2019.
- 15) Aravindan, Chandrabose, and S. M. Jaisakthi. "Species Recommendation using Machine Learning-GeoLifeCLEF 2019." (2019).
- 16) Thenmozhi, D., B. Senthil Kumar, and Chandrabose Aravindan. "Deep Learning Approach to English-Tamil and Hindi-Tamil Verb Phrase Translations." FIRE (Working Notes). 2018.
- 17) Thenmozhi, D., A. Kalaivani, and Chandrabose Aravindan. "Multi-lingual Author Profiling on SMS Messages using Machine Learning Approach with Statistical Feature Selection." FIRE (Working Notes). 2018.
- 18) Thenmozhi, D., Senthil Kumar, and Chandrabose Aravindan. "SSN\_NLP@ IECSIL-FIRE-2018: Deep Learning Approach to Named Entity Recognition and Relation Extraction for Conversational Systems in Indian Languages." FIRE (Working Notes). 2018.

- 19) Thenmozhi, D., S. Kayalvizhi, and Chandrabose Aravindan. "A Machine Learning Approach to Indian Native Language Identification." In FIRE (Working Notes), pp. 68-76. 2018.
- 20) Rajalakshmi, R., and Chandrabose Aravindan. "An effective and discriminative feature learning for URL based web page classification." In 2018 IEEE International Conference on Systems, Man, and Cybernetics (SMC), pp. 1374-1379. IEEE, 2018.
- 21) Thenmozhi, D., and Chandrabose Aravindan. "Ontology-based Tamil–English cross-lingual information retrieval system." *Sādhana* 43, no. 10 (2018): 157.
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- 23) Rajalakshmi, R., and Chandrabose Aravindan. "A Naive Bayes approach for URL classification with supervised feature selection and rejection framework." *Computational Intelligence* 34, no. 1 (2018): 363-396.
- 24) Aravindan, Chandrabose, and S. M. Jaisakthi. "Convolutional Long Short-Term Memory Neural Networks for Hierarchical Species Prediction."
- 25) Thenmozhi, D., A. Kalaivani, and Chandrabose Aravindan. "Multi-lingual Author Profiling on SMS Messages using Machine Learning Approach with Statistical Feature Selection." In FIRE (Working Notes), pp. 223-231. 2018.
- 26) Thenmozhi, D., and Chandrabose Aravindan. "RCE-OIE: Open Information Extraction Using a Rule-Based Clause Extraction Engine for Semantic Applications." In *Recent Findings in Intelligent Computing Techniques*, pp. 191-198. Springer, Singapore, 2018.
- 27) Thenmozhi, D., Kawshik Kannan, and Chandrabose Aravindan. "SSN\_NLP@ INLI-FIRE-2017: A Neural Network Approach to Indian Native Language Identification." FIRE (Working Notes). 2017.
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- 29) Mirunalini, Palaniappan, Aravindan Chandrabose, Vignesh Gokul, and S. M. Jaisakthi. "Deep learning for skin lesion classification." arXiv preprint arXiv:1703.04364 (2017).
- 30) Jaisakthi, S. M., Aravindan Chandrabose, and Palaniappan Mirunalini. "Automatic skin lesion segmentation using semi-supervised learning technique." arXiv preprint arXiv:1703.04301 (2017).

- 31) Thenmozhi, D., Palaniappan Mirunalini, and Chandrabose Aravindan. "Feature engineering and characterization of classifiers for consumer health information search." *Forum for Information Retrieval Evaluation*. Springer, Cham, 2016.
- 32) Mohanavalli, S., S. M. Jaisakthi, and Chandrabose Aravindan. "Automatic scale parameters in affinity matrix construction for improved spectral clustering." *International Journal of Pattern Recognition and Artificial Intelligence* 30.10 (2016): 1650023.
- 33) Ramakalyan, A., et al. "Development of KSVGRNN: A hybrid soft computing technique for estimation of boiler flue gas components." *Journal of Industrial Information Integration* 4 (2016): 42-51.
- 34) Thenmozhi, D., and Chandrabose Aravindan. "Paraphrase identification by using clause-based similarity features and machine translation metrics." *The Computer Journal* 59.9 (2016): 1289-1302.
- 35) Thenmozhi, D., and Chandrabose Aravindan. "An automatic and clause-based approach to learn relations for ontologies." *The Computer Journal* 59.6 (2016): 889-907.
- 36) Bhuvana, J., and Chandrabose Aravindan. "Stopping criteria for MAPLS-AW, a hybrid multi-objective evolutionary algorithm." *Soft Computing* 20.6 (2016): 2409-2432.
- 37) Bhuvana, J., and Chandrabose Aravindan. "Memetic algorithm with Preferential Local Search using adaptive weights for multi-objective optimization problems." *Soft Computing* 20.4 (2016): 1365-1388.
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