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Area: Machine Learning, Logic Programming, Pattern Recognition, Image Analysis, Text Analysis

**5 Years Journal Publications:**

1. R. Rajalakshmi and C. Aravindan, A Naive Bayes approach for URL classification with supervised feature selection and rejection framework, To appear in: Computational Intelligence, Wiley Publications, 2018. DOI: 10.1111/coin.12158;
2. P. Mirunalini, C. Aravindan, and S. M. Jaisakthi, Automatic stenosis detection using SVM from CTA projection images, To appear in: Multimedia Systems, Springer, 2018. DOI: 10.1007/s00530-017-0578-1
3. D. Thenmozhi, P. Mirunalini, and C. Aravindan, Feature engineering and characterization of classifiers for consumer health care search, In: Majumdar P, Mitra M, Mehta P, Sankhavara J (Eds.), Text Processing (FIRE 2016), Lecture Notes in Computer Science, Volume 10478, pp. 182 — 196, Springer, 2018.
4. S. Mohanavalli, S. M. Jaisakthi, and C. Aravindan, Automatic scale parameters in affinity matrix construction for improved spectral clustering, International Journal of Pattern Recognition and Artificial Intelligence, Volume 30, Issue 10, pp. 1650023-1 — 1650023-16, World Scientific, 2016. DOI: 10.1142/S0218001416500233;
5. D. Thenmozhi and C. Aravindan, Paraphrase Identification by Using Clause- Based Similarity Features and Machine Translation Metrics, The Computer Journal, Volume 59, Issue 9, pp. 1289 — 1302, The British Computer Society, 2016. DOI: 10.1093/comjnl/bxv083;

6. D. Thenmozhi and C. Aravindan, An Automatic and Clause-Based Approach to Learn Relations for Ontologies, *The Computer Journal*, Volume 59, Issue 6, pp. 889 — 907, The British Computer Society, 2016. DOI: 10.1093/comjnl/bxv071;
7. J. Bhuvana and C. Aravindan, Stopping Criteria for MAPLS-AW, a Hybrid Multi-Objective Evolutionary Algorithm, *Soft Computing*, Volume 20, Issue 6, pp. 2409 — 2432, Springer, 2016. DOI: 10.1007/s00500-015-1651-3;
8. J. Bhuvana and C. Aravindan, Memetic Algorithm with Preferential Local Search using Adaptive Weights for Multi-Objective Optimization Problems, *Soft Computing*, Volume 20, Issue 4, pp. 1365 — 1388, Springer, 2016. DOI: 10.1007/s00500-015-1593-9;
9. J Bhuvana, C Aravindan, Memetic algorithm with Preferential Local Search using adaptive weights for multi-objective optimization problems *Soft Computing* 20 (4), 1365-1388, 2016
10. SM Jaisakthi, P Mirunalini, C Aravindan, Automated skin lesion segmentation of dermoscopic images using GrabCut and k-means algorithms *IET Computer Vision* 12 (8), 1088-1095, 2018
11. A Ramakalyan, A Sivakumar, C Aravindan, K Kannan, V Swaminathan, Development of KSVGRNN: A hybrid soft computing technique for estimation of boiler flue gas components, *Journal of Industrial Information Integration* 4, 42-51, 2016
12. P Vasuki, C Aravindan, Hierarchical classifier design for speech emotion recognition in the mixed-cultural environment  
*Journal of Experimental & Theoretical Artificial Intelligence*, 1-16, 2020
13. S Mohanavalli, SM Jaisakthi, C Aravindan, Automatic scale parameters in affinity matrix construction for improved spectral clustering  
*International Journal of Pattern Recognition and Artificial Intelligence* 30 ...2016