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**Area of Specialisation:** Machine Learning, Deep Learning, Image Processing

**List of Publications (Past 5 years):**

1. Mirunalini, P., Aravindan, C. & Jaisakthi, S.M. (2019), 'Automatic stenosis detection using SVM from CTA projection images', *Multimedia Systems*, Vol 25, no 2, pp: 83-93, <https://doi.org/10.1007/s00530-017-0578-1>
2. S. M. Jaisakthi, P. Mirunalini, D. Thenmozhi and Vatsala (2019), 'Grape Leaf Disease Identification using Machine Learning Techniques', *International Conference on Computational Intelligence in Data Science (ICCIDS)*, pp. 1-6. doi: 10.1109/ICCIDS.2019.8862084
3. D. Thenmozhi, P. Mirunalini, S. M. Jaisakthi, S. Vasudevan, V. Veeramani Kannan and S. Sagubar Sadiq (2019), 'MoneyBall - Data Mining on Cricket Dataset', *International Conference on Computational Intelligence in Data Science (ICCIDS)*, 2019, pp. 1-5.
4. Dhana Lakshmi M., Mirunalini P., Priyadharsini R., Mirnalinee T.T. (2019) 'Review of Feature Extraction and Matching Methods for Drone Image Stitching'. In: Pandian D., Fernando X., Baig Z., Shi F. (eds) *Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB)*. ISMAC 2018. Lecture Notes in Computational Vision and Biomechanics, vol 30. Springer, Cham. Springer Publisher, pp: 595-602, Jan 2019. isbn :978-3-030-00664-8.
5. Nanda H Krishna, Praveen Kumar R, Ram Kaushik R, Mirunalini P, Aravindan Chandrabose and Jaisakthi S M (2019), 'Species Recommendation using Machine Learning - GeoLifeCLEF 2019', *CEUR – WS 2019 -Vol 2390 – paper-17*.
6. Jaisakth S M, Mirunalini Palaniappan and Aravindan Chandrabose (2019), 'Coral Reef Annotation and Localization using Faster R-CNN', *CEUR -WS -Vol 2380*.
7. P. Mirunalini, C. Aravindan, A. TamilNambi, S. Poorvaja and PoojaPriya (2019), 'Segmentation of Coronary Arteries from CTA axial slices using Deep Learning techniques', *TENCON 2019 - 2019 IEEE Region 10 Conference (TENCON)*, Kochi, pp. 2074-2080.
8. Thenmozhi D., Mirunalini P., Aravindan C. (2018) Feature Engineering and Characterization of Classifiers for Consumer Health Information Search. In: Majumder P., Mitra M., Mehta P.,

Sankhavara J. (eds) Text Processing. FIRE 2016. Lecture Notes in Computer Science, vol 10478. Springer, [https://doi.org/10.1007/978-3-319-73606-8\\_14](https://doi.org/10.1007/978-3-319-73606-8_14)

9. Seetharani Murugaiyan Jaisakthi, Palaniappan Mirunalini, Chandrabose Aravindan (2018), 'Automated skin lesion segmentation of dermoscopic images using GrabCut and k-means algorithms', IET Computer Vision, Vol 12(8), pp: 1088 – 1095, DOI:10.1049/iet-cvi.2018.5289, Print ISSN 1751-9632, Online ISSN 1751-9640.
10. P. Mirunalini, R. Priyadharsini, Vignesh Gokul, Sharath Chander. P, J.Soundarya (2018), "Generative Adversarial Networks for Image Generation", 3rd International Conference on Inventive Computation Technologies (3rd ICICT 2018)
11. J. Soundarya, Sharath Chander. P, R. Priyadharsini, P. Mirunalini (2018), "Audio Hiding in an image using steganographic methods", 3rd International Conference on Inventive Computation Technologies (3rd ICICT 2018)
12. P. Mirunalini, B. Bharathi, N. Ananthamurugan, S. Suresh, S. Gopal (2018), "Multi-Level Smart Parking System", International Conference on Computer, Communication, and Signal Processing (ICCCSP), pp. 1-4, doi: 10.1109/ICCCSP.2018.8452835
13. Nithish B Moudhgalya, Sharan Sundar S, Siddharth Divi, P Mirunalini, Chandrabose Aravindan, S. M. Jaisakthi (2018), 'Convolutional Long Short-Term Memory Neural Networks for Hierarchical Species Prediction', Working Notes of CLEF 2018 - Conference and Labs of the Evaluation Forum, [ceur-ws.org/Vol-2125/paper\\_184](http://ceur-ws.org/Vol-2125/paper_184).
14. Mirunalini P, Bharathi B, Nirupan Ananthamurugan, Skanda Suresh and Shreyas Gopal (2018), 'Multi-Level Smart Parking System', International Conference on Computer, Communication, and Signal Processing (ICCCSP - 2018) , SSNCE.
15. Mirunalini.P, Chandrabose Aravindan, Gokul Vignesh and Jaisakthi S.M (2017), 'Deep Learning for Skin Lesion Classification', arXiv preprint arXiv:1703.04364.
16. S. M. Jaisakthi, A Chandrabose, P Mirunalini (2017), 'Automatic Skin Lesion Segmentation using Semi-supervised Learning Technique', arXiv preprint arXiv:1703.04301.
17. S.M.Jaishakthi, P.Mirunalini, Rutuja Jadhav, Vatsala (2017), 'Automatic Whale Matching System using Feature Descriptor', CEUR- Working notes of CLEF 2017, VOL-1866.
18. P. Mirunalini and S. M. Jaisakthi and R. Sujana (2017), 'Tracking of object in occluded and non-occluded environment using SIFT and Kalman filter', TENCON 2017 - 2017 IEEE Region 10 Conference, 1290-1295, 10.1109/TENCON.2017.8228056.
19. D. Thenmozhi, P. Mirunalini, ChandraboseAravindan (2016), 'Decision Tree Approach for Consumer Health Information Search', CUER- Working notes of FIRE 2016 – International Conference on Forum for Information Retrieval Evaluation, Vol- 1737, pp: 221-225, ISSN:1613-0073
20. Mirunalini P. And Jaisakthi S.M. (2015), '3D Coronary Artery Reconstruction using SVM', Journal of Applied Sciences, Engineering and Technology, Vol.11(7), pp.685-691.