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LIST OF PUBLICATION

1. Sivaranjini, S., & Sujatha, C. M. (2019). Deep learning based diagnosis of Parkinson's disease using convolutional neural network. *Multimedia Tools and Applications*, 1-13.
2. Prabha, S., & Sujatha, C. M. (2018). Proposal of index to estimate breast similarities in thermograms using fuzzy C means and anisotropic diffusion filter based fuzzy C means clustering. *Infrared Physics & Technology*, *93*, 316-325.
3. Sivaranjini, S., & Sujatha, C. M. (2018, March). Analysis of Parkinson's Disease SPECT Images Using Geometric Measures and Orthogonal Moments. In *2018 Fourth International Conference on Biosignals, Images and Instrumentation (ICBSII)* (pp. 206-212). IEEE.
4. Thamil Selvi, J., Kavitha, G., & Sujatha, C. M. (2019). Fourth order diffusion model based edge map extraction of infrared breast images. *Journal of Computational Methods in Sciences and Engineering*, *19*(2), 499-506.
5. Selvi, J. T., Kavitha, G., & Sujatha, C. M. (2018). An approach to extract edge maps in infrared based breast images using inverse Perona-Malik diffusion filter. *International Journal of Biomedical Engineering and Technology*, *28*(3), 261-272.
6. Prabha, S., Suganthi, S. S., & Sujatha, C. M. (2017, December). Analysis of Breast Thermal Images Using Anisotropic Diffusion Filter Based Modified Level Sets and Efficient Fractal Algorithm. In *International Conference on Cognitive Computing and Information Processing* (pp. 10-17). Springer, Singapore.
7. ThamilSelvi, J., Kavitha, G., & Sujatha, C. M. (2017, March). Geometric nonlinear diffussion filter based edgemap extraction and its validation of infrared breast images. In *2017 Third International Conference on Biosignals, Images and Instrumentation (ICBSII)* (pp. 1-5). IEEE.
8. Anandh, K. R., Sujatha, C. M., & Ramakrishnan, S. (2016). A method to differentiate mild cognitive impairment and Alzheimer in MR images using eigen value descriptors. *Journal of medical systems*, *40*(1), 25.
9. Kayalvizhi, M., Kavitha, G., Sujatha, C. M., & Ramakrishnan, S. (2015). Minkowski functionals based brain to ventricle index for analysis of AD progression in MR images. *Measurement*, *74*, 103-112.
10. Prabha, S., Suganthi, S. S., & Sujatha, C. M. (2015). An approach to analyze the breast tissues in infrared images using nonlinear adaptive level sets and Riesz transform features. *Technology and Health Care*, *23*(4), 429-442.
11. Kayalvizhi, M., Anandh, K. R., Kavitha, G., Sujatha, C. M., & Ramakrishnan, S. (2015). Analysis of anatomical regions in Alzheimer's brain MR images using level sets and Minkowski functionals. *Journal of Mechanics in Medicine and Biology*, *15*(02), 1540024.
12. Rajeshwari, P. M., Kavitha, G., Sujatha, C. M., & Rajapan, D. (2015, February). Swarm intelligence based segmentation for buried object scanning SONAR images. In *2015 IEEE Underwater Technology (UT)* (pp. 1-4). IEEE.
13. Rajeshwari, P. M., Rajapan, D., Kavitha, G., & Sujatha, C. M. (2015, February). Multilevel Tsallis entropy based segmentation for detection of object and shadow in SONAR images. In *2015 IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES)* (pp. 1-5). IEEE.

14. Prabha, S., Suganthi, S. S., & Sujatha, C. M. (2015). An approach to analyze the breast tissues in infrared images using nonlinear adaptive level sets and Riesz transform features. *Technology and Health Care*, *23*(4), 429-442.
15. Prabha, S., Suganthi, S. S., & Sujatha, C. M. (2015). An approach to analyze the breast tissues in infrared images using nonlinear adaptive level sets and Riesz transform features. *Technology and Health Care*, *23*(4), 429-442.
16. Rajeshwari, P. M., Kavitha, G., Sujatha, C. M., & Rajapan, D. (2015). Particle Swarm Optimization-Based SONAR Image Enhancement for Underwater Target Detection. In *Artificial Intelligence and Evolutionary Algorithms in Engineering Systems* (pp. 523-531). Springer, New Delhi.
17. Kayalvizhi, M., Kavitha, G., Sujatha, C. M., & Ramakrishnan, S. (2015). Study of Alzheimer s Disease Progression In MR Brain Images based on Segmentation and Analysis of Ventricles using Modified DRLSE Method and Minkowski Functionals. *Biomedical Sciences Instrumentation*, *51*, 332-340.
18. Anandh, K. R., Sujatha, C. M., & Ramakrishnan, S. (2015). Segmentation and analysis of corpus callosum in Alzheimer MR images using total variation based diffusion filter and level set method. *Biomedical Sciences Instrumentation*, *51*, 355-361.
19. Prabha, S., Sujatha, C. M., & Ramakrishnan, S. (2015). Robust Anisotropic Diffusion Based Edge Enhancement for Level Set Segmentation and Asymmetry Analysis of Breast Thermograms using Zernike Moments. *Journal of Biomedical Science Instrumentation*, *51*, 341-348.
20. Sujatha, C. M. Prediction and classification of Human respiratory functions using Flow volume spirometry and radial Basis function neural networks.
21. Selvi, J. T., Sumathi, K., Kavitha, G., & Sujatha, C. M. (2014). ANALYSIS OF PLAQUE IN ULTRASOUND CAROTID ARTERY USING PHASE BASED DISTANCE REGULARIZED LEVEL SET EVOLUTION.
22. Anandh, K. R., Sujatha, C. M., & Ramakrishnan, S. (2014, August). Atrophy analysis of corpus callosum in Alzheimer brain MR images using anisotropic diffusion filtering and level sets. In *2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society* (pp. 1945-1948). IEEE.
23. Prabha, S., Anandh, K. R., Sujatha, C. M., & Ramakrishnan, S. (2014, August). Total variation based edge enhancement for level set segmentation and asymmetry analysis in breast thermograms. In *2014 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society* (pp. 6438-6441). IEEE.
24. Mythili, A., Srinivasan, S., Sujatha, C. M., & Ramakrishnan, S. (2014, May). Prediction of FEV 1 and FEV 6 in normal and obstructive abnormality using ELM regression and spirometric investigations. In *2014 International Conference on Informatics, Electronics & Vision (ICIEV)* (pp. 1-4). IEEE.
25. Anandh, K. R., Sujatha, C. M., & Ramakrishnan, S. (2014, May). Analysis of ventricles in alzheimer mr images using coherence enhancing diffusion filter and level set method. In *2014 International Conference on Informatics, Electronics & Vision (ICIEV)* (pp. 1-4). IEEE.
26. Anandh, K. R., Sujatha, C. M., & Ramakrishnan, S. (2014, May). Analysis of ventricles in alzheimer mr images using coherence enhancing diffusion filter and level set method. In *2014 International Conference on Informatics, Electronics & Vision (ICIEV)* (pp. 1-4). IEEE.
27. Anandh, K. R., Sujatha, C. M., & Ramakrishnan, S. (2014, May). Analysis of ventricles in alzheimer mr images using coherence enhancing diffusion filter and level set method. In *2014 International Conference on Informatics, Electronics & Vision (ICIEV)* (pp. 1-4). IEEE.
28. Anandh, K. R., Sujatha, C. M., & Ramakrishnan, S. (2014, April). Segmentation of ventricles in Alzheimer MR images using Tukey's biweight edge indicator and level set method. In *2014 40th Annual Northeast Bioengineering Conference (NEBEC)* (pp. 1-2). IEEE.

29. Mythili, A., Srinivasan, S., Sujatha, C. M., Kavitha, G., & Ramakrishnan, S. (2014). Analysis of restrictive pulmonary function abnormality using spirometric investigations and QPSO feature selection. *International Journal of Biomedical Engineering and Technology*, *16*(3), 195-208.
30. Sivakamasundari, J., Kavitha, G., Sujatha, C. M., & Ramakrishnan, S. (2014). Fpga based hardware synthesis for automatic segmentation of retinal blood vessels in diabetic retinopathy images. *Biomedical sciences instrumentation*, *50*, 156.
31. Mythili, A., Sujatha, C. M., & Srinivasan, S. (2014). ELM Based Classification and Analysis of Spirometric Pulmonary Function Data. In *The 15th International Conference on Biomedical Engineering* (pp. 235-238). Springer, Cham.