

Publications

1. Romalt, A.A., and R. Mathusoothana S. Kumar,” An analysis on feature selection methods, clustering and classification used in heart disease prediction - A machine learning approach”, *Journal of Critical Reviews*, 2020, 7(6), pp. 138–142
2. R. Mathusoothana S Kumar,” Robust multi-view videos face recognition based on particle filter with immune genetic algorithm”, *IET Image Processing*, 2019, 13(4), pp. 600–606
3. C. Anitha and R. Mathusoothana S. Kumar,” Naturalness Preserved Extremely Low Light Video Frame Enhancement by Correcting Illumination and Reducing Fixed Pattern Noise”, *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 11, No. 7, pp. 1043-1051, 2019
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5. P.L. Arun and R. Mathusoothana S. Kumar,” Prewitt texture filter synthesis for efficient image occlusion removal to visualize hidden objects”, *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 11, No. 7, pp. 1052-1061, 2019.
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7. N. Ramanujam and R. Mathusoothana S. Kumar,” Fault Identification for Steam Boiler Tube Leakage in Thermal Power Stations Using Data Outlier ”, *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 11, No. 7, pp. 972-982, 2019.
8. M. Leena Silvester and R. Mathusoothana S. Kumar,” Automatic Segmentation, Size Determination and Classification of IVD”, *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 11, No. 7, pp. 1075-1087, 2019.
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10. Shyni Shajahan, R. Mathusoothana S Kumar and Dr. Jacob Vetha Raj,” Direction Oriented Block based Inpainting using Morphological Operations”, *International Journal of Innovative Technology and Exploring Engineering*, Vol. 8, No. 12, pp. 2769-2774, Oct. 2019.
11. Arun , R. Mathusoothana S. Kumar , Bijukumar,” A Novel Algorithm For Shadow Detection and Reconstruction in High-Resolution Satellite Images”, *IIOABJ*, Vol. 7, No.9. pp. 40-46, 2016.
12. M. Leena Silvester , R. Mathusoothana S. Kumar,” Efficient Identification of Desiccated Lumbar IVD from MRI”, *IIOABJ*, Vol. 7, No.9. pp. 26-33, 2016.
13. Movina R. Ayoob and R. Mathusoothana S. Kumar, “Face Recognition using Symmetric Local Graph Structure”, *Indian Journal of Science and Technology*, 2015, Vol: 8, Issue: 24, Pages: 1-5
14. Junior Rashid Shafeer and R. Mathusoothana S. Kumar, “Video Forensics Toolkit: Frame Based Video Recovery, Video Analyzer and Report Generator”, *Image Processing & Networking*, Volume : 10 Special Issue - II Feb 2015 ISSN No : 0973-2993, pp. 246-249

15. R. Mathusoothana S Kumar, K.Muneeswaran," ORICS based kernel discriminant analysis", International Journal of Soft Computing, 8(3):223-230(2013)
16. R. Mathusoothana S Kumar, K.Muneeswaran," Optimal Feature Extraction Using Greedy Approach for Random Image Components and Subspace Approach in Face Recognition" Journal of Computer Science and Technology, volume 28, pages322–328 (2013)
17. R. Mathusoothana S Kumar, K.Muneeswaran," An improved face recognition technique based on modular LPCA approach", Journal of Computer Science, Volume 7 No. 12, 2011, 1900-1907