

## **Dr. R. Balasubramanian,**

**Professor, Computer Science and Engineering,**

**Manonmaniam Sundaranar University,**

**Tirunelveli - 627 012**

### **Journal Publications**

1. **R.Balasubramanian**, G.Suresh, “ An Ensemble Feature Selection Model using Fast Convergence Ant Colony Optimization Algorithm”, International Journal of Emerging Trends in Engineering Research, Vol.8 No.4, pp.1417-1423, April 2020. ( **Scopus Indexed** )
2. **R.Balasubramanian**, G.Suresh, “ An Unified Framework of Genetic Software Agent Based Missing Value Replacement Model”, Adalya Journal, pp.1180-1202, Vol.9, Issue 3, March 2020. ( **Web of Science** )
3. **R.Balasubramanian**, K.ParvathSuman, “ Predication of Intrapratum Maternal and Embryo Risk Assessment using Feature Selection Algorithms and Convolutional Neural Network”, Journal of Xi'an University of Architecture & Technology, pp.3328-3340, Vol XII, Issue II, 2020,ISSN: 1006-7930
4. **R.Balasubramanian**, A.Gopikannan, “Mutipleweight-Support Vector Machine for Breast Cancer Data Classification”, International Journal of Analytical and Experimental Modal Analysis, pp.2455-2463, Vol. XII, Issue I, ISSN: 0886-9367, Jan 2020.
5. **R.Balasubramanian**, K.ParvathSuman, “A Novel Ensemble Approach Based on Hybrid Random Ferns Monotone Neural Network for Maternal and Embryo Risk Assessment”, Compliance Engineering Journal, pp.739-758, Vol.10, Issue 12, ISSN: 0898-3517, 2019.
6. **R.Balasubramanian**, T.Arul Raj, “ Fusing LDA\_DCP Feature Sets for Newborn Baby Face Recognition Using Feature Selection and Classification using Deep Convolutional Neural Network”, Compliance Engineering Journal, pp. 594-605, Vol.10, Issue 11, ISSN: 0898-3517, 2019.
7. **R.Balasubramanian**, A.Gopi Kannan, T.Arul Raj, “ Comparative Analysis of Classification Techniques in Data Mining on Breast Cancer Dataset”, Journal of Information and Computational Science, Vol.9, Issue 12, 2019, ISSN: 1548-7741
8. **R.Balasubramanian**, T.Arul Raj, A.Gopi Kannan, “Empirical Analysis for Newborn baby Face Recognition with Ensemble Feature Extraction and Classifier”, Journal of Information and Computational Science, Vol.9, Issue 10, 2019, ISSN: 1548-7741.
9. **R.Balasubramanian**, R.Beaulah Jeyavathana, P.Jose, “ Estimation of White Blood Cells using Convolutional Neural Network”, International Journal of Engineering and Advanced Technology (IJEAT), pp.452-454, Volume 9, Issue 1, October 2019, ISSN No:2249-8958. (Scopus Indexed Journal)
10. **R.Balasubramanian**, K.ParvathSuman, T.Arul Raj, “Performance Evaluation of Machine Learning Techniques for Fetal Hypoxia Prediction”, Journal of Information and Computational Science, Vol. 9, Issue 8, 2019, ISSN:1548-7741.

11. **R.Balasubramanian**, M.Germanus Alex, C.Rajalakshmi, "Exploiting manipulated regions in an Image using Integrated Convolution Neural Network and LRW Segmentation Features", International Journal of Recent Technology and Engineering, ISSN:2277-3878, Vol.8, Issue 3, pp.5488-5495, September 2019 (Scopus Indexed Journal and listed in UGC CARE list Group II).
12. **R.Balasubramanian**, Cibi Castro.V, Antony Sudha.K, Illam Parithi, T.Arul Raj, "A Novel Method for Lossy Image Compression Using Optimized Side Match Vector Quantization", International Journal of Information and Computing Science, pp.479-488, Volume 6, Issue 3, March 2019, ISSN No:0972-1347.
13. **R.Balasubramanian**, C.Rajalakshmi, M.G.Alex, "Copy move forgery detection using key point localized super pixel based on texture features", Computer Optics (Scopus Indexed Journal), pp.270-276, Vol.43(2), March 2019.
14. **R.Balasubramanian**, T.Arul Raj, K.Parvathsuman, A.Gopi Kannan, "A Review on Newborn Baby Based Biometric and Soft-Biometric Identification System", International Journal of Scientific Research and Review, pp.1012-1020, Volume 8, Issue 6, 2019, ISSN No:2279-543X.
15. **R.Balasubramanian**, G.Sakthi, R.Nedunchezian,"Convolution Neural Networks for High Spatial Resolution Remote Sensing Image Classification", International Journal of Information and Computing Science, pp. 138-149, Volume 6, Issue 1, January 2019,ISSN No: 0972-1347.
16. **R.Balasubramanian**,V.Cibi Castro,T.Arul Raj,T.Ilam Parithi "A Study of Image Compression Techniques", International Journal of Scientific Research and Review, pp 655-661, Volume 8, Issue 1,2019,ISSN No: 2279-543X.
17. **R.Balasubramanian**,T.Bhuvaneswari,E.Seshatheri, T.Arul Raj, "Improved Duplicate Detection Technique using Fuzzy Logic", International Journal of Scientific Research and Review, pp 1261-1270, Volume 8, Issue 1,January 2019,ISSN No: 2279-543X
18. **R.Balasubramanian**, R.Vinayagamoorthy, T.Arul Raj, T.Ilamparithi, "A Comprehensive Analysis of Medical Image Segmentation using Deep Learning", International Journal of Scientific Research and Review, pp 613-618, Volume 8, Issue 6, 2019, ISSN No:2279-543X.
19. **R.Balasubramanian**, A.Gopi Kannan, T.Arul Raj, V.Cibi Castro, "A Comprehensive Study on Various Association Rule Mining Techniques", Journal of Analysis and Computation, pp 1-10,2019, ISSN 0973-2861.
20. **R.Balasubramanian**,V.Cibi Castro, K.Antony Sudha, T.Ilam Parithi, T.Arul Raj, "Efficient Lossy Image Compression Scheme using Modified Side Match Vector Quantization" Journal of Emerging Technologies and Innovative Research pp 1-4, Volume 5, Issue 12,December 2018,ISSN No: 2349-5162.
21. **R.Balasubramanian**, C.Rajalakshmi, M.G.Alex, " Deep Learning Approach for manipulated Image Region Localization using Convolution Neural Network", Journal of Emerging Technologies and Innovative Research(JETIR), pp.703-713, Volume 5, Issue 12, December 2018, ISSN No: 2349-5162.
22. **R.Balasubramanian**,V.Cibi Castro,T.Arul Raj,T.Ilam Parithi "Comparative Study of Image Compression Techniques based on Vector Quantization", International Journal of Computer Sciences and Engineering pp 386-390, Volume 6, Issue 11,November 2018,ISSN No: 2347-2693.
23. **R.Balasubramanian** ,R.Beaulah Jeyavathana, "Genetic-Neuro-Fuzzy Inferential Model for Tuberculosis Detection", International Journal of Applied Engineering Research pp 13308-13312,Volume 13,No.17,September 2018, ISSN No: 0973-4562

24. **R.Balasubramanian**, T.Avudaiappan et al, "Medical Image Security Using Dual Encryption with Oppositional Based Optimization Algorithm", Journal of Medical Systems, Springer, Sept. 2018 42:208. ISSN No: 0148-5598.
25. **R.Balasubramanian** ,C.Rajalakshmi, "Study of Image Tampering and Review of Tampering Detection Techniques" International Journal of Advanced Research in Computer Science pp 964-967,Volume 8,No.7,July-August 2017 ISSN No: 0976-5697
26. **Balasubramanian.R**,Avudaiappan. T, Ilam Parithi.T, "A Performance Analysis of Video Compression Standards" International Journal of Advance Engineering and Research Development, pp 627-633,volume 4,Issue 8,August -2017,e-ISSN(O) : 2348-4470, p-ISSN(P): 2348-6406.
27. **Balasubramanian.R** ,Avudaiappan. T, Ilam Parithi.T, "Integration of an Efficient Intra and Inter Prediction in H.264/AVC" International Journal of Pure and Applied Mathematics, pp 7-10,vol 117 Nov 10,2017 ISSN (P) – 1311-8080,ISSN(O) – 1314-3395
28. **Balasubramanian.R** ,Avudaiappan. T, Ilam Parithi.T, "Performance Analysis on Lossless Image Compression Techniques for General Images" International Journal of Pure and Applied Mathematics,pp :1-5, vol 117 Nov 10,2017.
29. **R.Balasubramanian** ,T.Ilam Parithi, V.Murugan, "Set Partitioning in Hierarchical Tree Based Video Codec in Wavelet Domain" International Journal of Computer Engineering and Applications, vol XI, Issue XI,Nov 2017,ISSN: 2321-3469 pp:1-9.
30. **R.Balasubramanian**,V.Murugan,T.Ilamparithi "Video Coding Standards-A Review" International Journal of Modern Computer Science" Vol :5,Issue :4 ,August 2017,ISSN :2320-7868
31. **R.Balasubramanian**, V. Belmer Gladson and Y. Sam Josuva, "Comparative Analysis of Advanced Reversible Watermarking Techniques. I-manager's Journal on Image Processing. 3(4), pp.19-25, Oct-Dec, 2016. Print 2349-4530, E-ISSN 2349-6827.
32. **R.Balasubramanian**, A. Anbarasa Pandian, "Fusion of Contourlet Transform and Zernike Moments Using Content Based Image Retrieval for MR Brain tumor Images" Indian Journal of Science and Technology, August 2016. ISSN: 0974-5645.
33. **R.Balasubramanian**, A. Anbarasa Pandian, "Analysis on Shape Image Retrieval Using DNN and ELM Classifiers for MRI Brain Tumor Images" International Journal of Information Engineering and Electronics Business", July 2016. ISSN: 2074-9031.
34. **R.Balasubramanian**, R. Beaulah Jeyavathana, A. Anbarasa Pandian," A Survey on Pre-Processing and Segmentation Techniques for Medical Images" International Journal of Research and Scientific Innovation (IJSI) | Volume III, Issue VI, June 2016 | ISSN 2321–2705.
35. **R.Balasubramanian**, A.Natarajan, "A Fuzzy Parallel Island Model Multi Objective Genetic Algorithm Gene Feature Selection For Microarray Classification"- International Journal of Applied Engineering Research, Volume 11, Number 4, pp 2761-2770, March 2016. ISSN 0973-4562.
36. **R.Balasubramanian**, A.Natarajan,"A Parallel Multi Objective Optimization Genetic Algorithm Gene Feature Selection on Microarray Based Cancer Classification Using Neuro-Fuzzy Inference System"- International Journal of Scientific & Engineering Research, Volume 7, Issue 3, ISSN 2229-5518, March-2016.

37. **Balasubramanian R**, “Design and Implementation of Gaussian, Impulse and Mixed Noise Removal filtering techniques for MR Brain Imaging under Clustering Environment”, *Global Journal of Pure and Applied Mathematics*, Vol 12, Number 1(2016), pp.265-272,ISSN 0973-1768.
38. **Balasubramanian R**, Benjamin Fredrick David H, Anbarasa Pandiyan A. “CBIR Using Multi-Resolution Transform for Brain Tumour Detection and Stages Identification” *International Journal of Biomedical and Biological Engineering*, Vol:10 No:11 2016, 1000-9011
39. **R.Balasubramanian**, A. Anbarasa Pandian, “Performance Analysis of Texture Image Retrieval for Curvelet, Contourlet Transform and Local Ternary Pattern Using MRI Brain Tumor Images” *International Journal in Foundations of Computer Science & Technology (IJFCST)*, Vol.5, No:6, November 2015. ISSN- 1839-7662.
40. **R.Balasubramanian**, A. Anbarasa Pandian, “A Survey on Content Based Image Retrieval Using Different Techniques” *International Journal of Advanced Research in Biology, Ecology, Science and Technology (IJARBEST)*, November 2015, ISSN: 2395-695x.
41. **Balasubramanian R**, Murugan V “An Efficient Gaussian, Impulse and Mixed Noise Detection and Reduction Filtering Techniques for MR Brain Imaging”, *International Journal of Engineering and Techniques - Volume 1 Issue 5*, ISSN: 2395-1303, Page: 26-36, Sep-Oct 2015.
42. **Balasubramanian R**, “An Efficient Impulse Noise Removal Image Denoising Technique for MRI Brain Images”, *International Journal of Mathematical Sciences and Computing*, 2015, 2, 1-7 Published Online August 2015 in MECS (<http://www.mecs-press.net>) DOI: 10.5815/ijmsc.2015.02.01.