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International Journals

1. A hybrid feature preservation technique based on luminosity and edge based contrast enhancement in color fundus images, **Elsevier Journal of Biocybernetics and Biomedical engineering**, in press.
2. Automated Segmentation of Optic Disc using Statistical Region Merging and Morphological Operations, **Australasian Physical & Engineering Sciences in Medicine**, in press.
3. An improved luminosity and contrast enhancement framework for feature preservation in colour fundus images, **Springer Journal of Signal, Image and Video Processing**, vol. 13, pp 719–726, June 2019.
4. Magnitude Comparator Realization using Threshold Logic, **International Journal of Recent Technology and Engineering**, Volume-8 Issue-3, September 2019.
5. Accurate Heart Rate Monitoring Method During Physical Exercise from Photoplethysmography Signal, **IEEE Sensors Journal**, vol. 19, pp. 2298 – 2304, 2019.
6. Brain MR Kurtosis Imaging Study: Contrasting Gray and White Matter, **Elsevier Journal of Cognitive Systems Research**, Vo. 55, pp. 135-145, 2019
7. Development of an Efficient Algorithm for the Detection of Macular Edema from Optical Coherence Tomography Images,” **Springer Journal of Computer Assisted Radiology and Surgery**, pp. 1-9, 2018.
8. Combination of Clinical and Multiresolution Features for Glaucoma detection and its classification using Fundus Images,” **Elsevier Journal of Biocybernetics and Biomedical engineering**, vol. 38, pp. 329-341, 2018.
9. IOT based Road Pothole and Hump Identification using Ultrasound Waves, **Journal of Computer Engineering**, PP 13-18, 2017.

10. PCA Based Localization Approach for Segmentation of Optic Disc, **Springer Journal of Computer Assisted Radiology and Surgery**, 12(12), pp. 2195-2204, 2017.
11. Vehicle Vibration Signal Processing for Road Surface Monitoring, **IEEE-Sensor Journal**, vol.17, issue 16, pp. 5192-5197, 2017.
12. Analog CMOS implementation of FFT using Cascode current mirror, **Elsevier Microelectronics Journal**, vol. 60, pp. 30-37, February 2017.
13. A sparsity-based iterative algorithm for reconstruction of Micro-CT images from highly undersampled projection datasets obtained with a synchrotron X-ray source, **Review of Scientific Instruments**, 87,123701, 2016.
14. Iterative Computed Tomography Reconstruction from Sparse-View Data, **Journal of Medical Imaging Health Informatics**, vol. 6, pp.1–13, 2016.
15. A Floating Gate MOSFET Based Novel Programmable Current Reference, **International Journal of Electrical, Robotics, Electronics and Communications Engineering**, vol. 8, no. 6, 2014.
16. Image Resolution Enhancement Using Undecimated Double Density Wavelet Transform, **Signal Processing: An International Journal (SPIJ)**, vol. 8, issue. -4, 2014.
17. Multiple regularization based MRI reconstruction, **Elsevier Signal Processing**, vol. 103, pp. 103-113, 2014.
18. MR Image Reconstruction Based on nonlocal total variation and Framelets using Split Bregman method”, **Springer Journal of Computer Assisted Radiology and Surgery**, vol. 9, issues -3, pp. 459-472, 2014.
19. Micro-CT Image Reconstruction Based on Alternating Direction Augmented Lagrangian method and Total Variation, **Elsevier Journal of Computerized Medical Imaging and Graphics**, vol. 37, issue-7-8, pp. 419-429, 2013.
20. MR Image Reconstruction Based on Iterative Split Bregman algorithm and nonlocal total variation, **Journal of Computational and Mathematical Methods in Medicine**, vol. 2013, 2013.
21. Capsule Endoscopic Image Denoising Based on Double density dual tree complex wavelet Transform, **International Journal of Imaging and Robotics**, vol. 9, issue-1, 2012.