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Areas of Interest: Signal & Image Processing, Deep Learning

LIST OF PUBLICATIONS (LAST 5 YEARS)

1. Gopinath Palanisamy, Natarajan B.Shankar, Palanisamy Ponnusamy, Varun P.Gopi, 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, April 2020, DOI: 10.1016/j.bbe.2020.02.006
2. K. S. Nija, C. P. Anupama, Varun P. Gopi & V. S. Anitha , Automated Segmentation of Optic Disc using Statistical Region Merging and Morphological Operations, Australasian Physical & Engineering Sciences in Medicine, in press, Sept. 2020, DOI: 10.1007/s13246-020-00883-2
3. Gopinath Palanisamy, Palanisamy Ponnusamy & Varun P. Gopi , 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. Soumya R, V. Sureh Babu, Varun P. Gopi, Magnitude Comparator Realization using Threshold Logic, International Journal of Recent Technology and Engineering, Volume-8 Issue-3, September 2019.
5. Anju Thomas; Varun P. Gopi, Accurate Heart Rate Monitoring Method During Physical Exercise from Photoplethysmography Signal, IEEE Sensors Journal, vol. 19, pp. 2298 – 2304, 2019.
6. A.G.Beejesh, Varun P.Gopi, Jude Hemanth, Brain MR Kurtosis Imaging Study: Contrasting Gray and White Matter, Elsevier Journal of Cognitive Systems Research, Vo. 55, pp. 135-145, 2019
7. K. M. Jemshi, Varun P. Gopi & Swamidoss Issac Niwas, 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. T.R.Kausu, Varun P.Gopi, Khan A.Wahid, Wangchuk Doma, Swamidoss Issac Niwas, 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. Harikrishnan P M, Dr. Varun P Gopi, IOT based Road Pothole and Hump Identification using Ultrasound Waves, Journal of Computer Engineering, PP 13-18, 2017.
10. Varun P. Gopi, M. S. Anjali & S. Issac Niwas, PCA Based Localization Approach for Segmentation of Optic Disc, Springer Journal of Computer Assisted Radiology and Surgery, 12(12), pp. 2195-2204, 2017.
11. P. M. Harikrishnan, Varun P. Gopi, Vehicle Vibration Signal Processing for Road Surface Monitoring, IEEE-Sensor Journal, vol.17, issue 16, pp. 5192-5197, 2017.
12. Varun P. Gopi, Khan Arif Wahid, V. Suresh Babu, Analog CMOS implementation of FFT using Cascode current mirror, Elsevier Microelectronics Journal, vol. 60, pp. 30-37, February 2017.
13. S. Ali Melli, Khan A. Wahid¹, Paul Babyn, David M. L. Cooper and Varun P. Gopi, 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. Varun P. Gopi, Palanisamy Ponnusamy, Khan A. Wahid, Paul S Babyn, Iterative Computed Tomography Reconstruction from Sparse-View Data, Journal of Medical Imaging Health Informatics, vol. 6, pp.1-13, 2016.