

Dr.P.Palanisamy M.E.,Ph.D.,
Professor / ECE
NIT, Trichy -620015

Publication Details:

1. Hariharan.P.M., Anju Thomas, Nisha.J.S., Varun.P.Gopi, **Palanisamy.P**, "Pixel matching search algorithm for counting moving vehicle in highway traffic videos", Multimedia Tools and Applications, <https://doi.org/10.1007/s11042-020-09666-z>
2. Gayathri, S., Gopi, V.P. & **Palanisamy.P**, "A lightweight CNN for Diabetic Retinopathy classification from fundus images" Biomedical Signal Processing and Control, Vol. 62, Sept.2020, <https://doi.org/10.1016/j.bspc.2020.102115>
3. Gayathri, S., Gopi, V.P. & **Palanisamy.P**, "Automated classification of diabetic retinopathy through reliable feature selection", Physical and Engineering Sciences in Medicine, July 2020 (Springer). DOI: <https://doi.org/10.1007/s13246-020-00890-3>
4. Gowri, K., **Palanisamy, P.** & Amiri, I.S., "**Improved Method of Direction Finding for Non Circular Signals with Wavelet Denoising Using Three Parallel Uniform Linear Arrays**", Wireless Pers Commun (2020). <https://doi.org/10.1007/s11277-020-07571-0>
5. S Gayathri, AK Krishna, VP Gopi, **P Palanisamy**, "Automated Binary and Multiclass Classification of Diabetic Retinopathy Using Haralick and Multiresolution Features", IEEE Access, Vol.8, 2020 (DOI: 10.1109/ACCESS.2020.2979753)
6. P.Gopinath, N.B.Shankar, **P.Palanisamy** and Varun P Gopi, "A hybrid feature preservation technique based on luminosity and edge based contrast

enhancement in color fundus images” Biocybernetics and Biomedical Engineering (Elsevier), Vol. 40(2), pp.752-763 (2020)

7. Karthick S, **Palanisamy.P** and Srinivasarao Chintagunta, “**Polarization Difference Smoothing in Bistatic MIMO Radar**” Progress In Electromagnetics Research Letters, Vol.88, pp.67-74, 2020
8. K.Gowri and **P.Palanisamy**, “Two Dimensional Direction of Arrival Estimation Algorithm for Coherent Signals using three parallel Uniform Linear Arrays” Journal Communication Technology and Electronics (Springer), Vol.64, No.12, pp-1383-1390 (2019). Doi:10.1134/S106422691912009x.
9. Gowri.K, **Palanisamy.P** and Iraj Sadegh Amiri, “**Direct Localization of Multiple Noncircular Sources With a Moving Nested Array**”, IEEE Access, Vol. 7, 2019. (DOI: 10.1109/ACCESS.2019.2929805).
- 10.S.Deivalakshmi, **Palanisamy.P** and X.Gao, “**Balanced GHM Mutiwavelet Transform based Contrast Enhancement Technique for Dark Images using Dynamic Stochastic Resonance**, Journal of Intelligent Automation and Soft Computing, Vol. 25, no. 3, pp.459–471 (DOI: 10.31209/2018.1000000001).
- 11.**PALANISAMY P**, Karthick S and Srinivasarao Chintagunta, “**Computationally efficient method for joint DOD and DOA estimation of coherent targets in MIMO radar**”, Elsevier Signal Processing, Vol. 165, PP. 262-267, 2019. (<https://doi.org/10.1016/j.sigpro.2019.07.015>).
- 12.Srinivasarao Chintagunta and **PALANISAMY P**, “**Spatial and Polarization Angle Estimation of Mixed-Targetsin MIMO Radar**”, Progress In Electromagnetics Research M, Vol.82, pp.49-59, 2019 .
- 13.Vikas R. Phate, R. Malmathanraj, **P. PALANISAMY**, “**Clustered ANFIS weighing models for sweet lime (Citruslimetta) using computer vision system**”, Journal of Food process Engineering (Wiley), 2019 DOI: 10.1111/jfpe.1316.

14. Yogeswararao Gurubelli, Malmathanraj Ramanathan, **Palanisamy Ponnusamy**, “Fractional fuzzy 2DLDA approach for pomegranate fruit grade classification” Elsevier Journal of Computers and Electronics in Agriculture, 162 (2019), pp-95-105. (<https://doi.org/10.1016/j.compag.2019.03.036>)
15. Vikas R. Phate, R. Malmathanraj, **Palanisamy**, “**Classification and weighing of sweet lime (Citrus limetta) for packaging using computer vision system**”, Journal of Food Measurement and Characterization, Springer, Impact Factor (1.181), Published Feb. 2019. (SCIE)(10.1007/s11694-019-00061-3)
16. P. Gopinath, **P. Palanisamy** and Varun P Gopi, “**An improved luminosity and contrast enhancement framework for feature preservation in color fundus images**”, Springer Journal of Signal, Image and Video Processing, (2018), pp.1-8. (doi.org/10.1007/s11760-018-1401-y)
17. V. Sudeep, **P. Palanisamy**, Chandrasekharan Kesavadas, Jeny Rajan, “**An improved nonlocal maximum likelihood estimation method for denoising magnetic resonance images with spatially varying noise levels**”, Pattern Recognition Letters (Feb. 2018 on line), doi:10.1016/j.patrec.2018.02.007
18. Srinivasarao Chintagunta and **P. Palanisamy** “**2D-DOD and 2D-DOA estimation using the electromagnetic vector sensors**” Elsevier Signal Processing, Vol. 147, pp.163-172. DOI:org/10.1016/j.sigpro.2018.01.025
19. Srinivasarao and **P. Palanisamy**, **Integrated polarization and diversity smoothing algorithm for DOD and DOA estimation of coherent targets**, IET Signal Processing, pp. 1-7, 2017 DOI: 10.1049/iet-spr.2017.0276
20. Srinivasarao Chintagunta and **P. Palanisamy**, “**DOD and DOA estimation using the spatial smoothing in MIMO radar with the EmV sensors**”, Springer Journal of Multidimensional Systems and Signal Processing, May 2017. (DOI 10.1007/s11045-017-0500-1)

21. Gowri and **P. Palanisamy**, "Multiresolution transform based denoising in direction finding", International Journal of Computer Applications, No.1, September 2017.
22. PV Sudeep, **P. Palanisamy et al.**, **A nonlocal maximum likelihood estimation method for enhancing magnetic resonance phase maps**", Springer Journal of Signal, Image and Video Processing, Dec. 2016, (doi:1007/s11760-016-1039-6).
23. Deivalakshmi S, **P. Palanisamy P.**, **"Undecimated Balanced GHM Multiwavelet Transform based Contrast Enhancement Technique for Dark Images using Dynamic Stochastic Resonance"**, International Journal of Computer Applications, Vol.150(11), Sept. 2016, pp.47-54. (doi: 10.5120/ijca2016911657)
24. PV Sudeep, **P. Palanisamy et al.**, **"Speckle reduction in medical ultrasound images using an unbiased non-local means method"** Biomedical Signal Processing and Control, Vol.28, July 2016, pp 1-8, (doi:10.1016/j.bspc.2016.03.001).
25. S Deivalakshmi, **P. Palanisamy**, **"Removal of high density salt and pepper noise through improved tolerance based selective arithmetic mean filtering with wavelet thresholding"**, AEU-International Journal of Electronics and Communications, Vol.70(6), June 2016, pp.757-776 (doi:10.1016/j.aeue.2016.03.002).
26. V. Sudeep, **P. Palanisamy et al.**, **"Enhancement and Bias Removal of Multiframe Optical Coherence Tomography Images: an Iterative Approach via Adaptive Bilateral Filtering,"** Computers in Biology and Medicine, Vol.71, April 2016, pp. 97-107 (doi:10.1166/jmihi.2016.1579)
27. Varun P. Gopi, **P. Palanisamy, Khan A. Wahid, Paul Babyn, David Cooper "** **Iterative Computed Tomography Reconstruction from Sparse-View Data,"** Journal of Medical Imaging and Health Informatics, Vol.6(1), 2016, pp.34-46.

- 28.Sudeep P.V., **Palanisamy**, Chandrasekharan KEsavadas and Jeny Rajan
“**Nonlocal linear minimum mean square error methods for denoising MRI**” Journal of Biomedical Signal Processing and Control, Vol.20 (2015), pp.125-134.
- 29.S.Gopi and **P.Palanisamy**, “**Neural network based class-conditional probability density function using kernel trick for supervised classifier**” Elsevier Journal of Neuro Computing (Available on line, doi:10.1016/j.neucom.2014.11.070)
- 30.S.Gopi and **P.Palanisamy**, “**Maximizing gaussianity using kurtosis measurement in the kernel space for kernel linear discriminant analysis**” Elsevier Journal of Neuro Computing, Vol.11(2014), pp. 329-337.
- 31.Varun P. Gopi, **Palanisamy**, Paul Babyn and Khan A. Wahid, “**Multiple Regularization based on MRI Reconstruction**”, Elsevier-Signal processing, Vol.103,2014, pp. 103-113 (<http://dx.doi.org/10.1016/j.sigpro.2013.11.001>)
- 32.Varun P.Gopi, **Palanisamy**, Khan A.Wahid and Paul Babyn, “**MR Image Reconstruction Based on Framelets and nonlocal total variation using Split Bregman method**”, Springer Journal of Computer assisted radiology and surgery, Vol.9(3) (2014), pp.459-472. (DOI 10.1007/s11548-013-0938-z)
- 33.Varun P. Gopi, **Palanisamy**, Khan A. Wahid, Paul Babyn, David Cooper
" **Micro-CT Image Reconstruction Based on Alternating Direction Augmented Lagrangian method and Total Variation**," Elsevier Journal of Computerized Medical Imaging and Graphics, Vol.37, December 2013, pp.419-429. (doi:10.1016/j.compmedimag.2013.08.006)
- 34.Varun P.Gopi, **Palanisamy**, Khan A.Wahid and Paul Babyn, “**MR Image Reconstruction Based on Iterative Split Bregman algorithm and nonlocal total variation**”, Journal of Computational and Mathematical Methods in Medicine, vol.2013, pp/1-16,(<http://dx.doi.org/10.1155/2013/985819>)(2013)
- 35.Issac Niwas, **P.Palanisamy** and K.Sujathan, “**Complex Wavelets based automated analysis of subcellular pattern in Immunohistochemistry**

images of the tissue microarrays from the Human Protein Atlas”
International Journal of Imaging Science and Engineering, Vol.7, pp.1-5,
2013.