

## Publications

### International Journals:

- 1.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: 10.31209/2018.100000001).
- 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-Targets in 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 Journal 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](https://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](https://doi.org/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: [10.1016/j.sigpro.2018.01.025](https://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](https://doi.org/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](https://doi.org/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:10.1007/s11760-016-1039-6](https://doi.org/10.1007/s11760-016-1039-6)).
23. Deivalakshmi S, **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](https://doi.org/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](https://doi.org/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](https://doi.org/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, **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.