## Dr. P.D. SATHYA, M.E., Ph.D.,

## **Assistant Professor**

Department of Electronics and Communication Engineering

Annamalai University

Annamalainagar – 608002, Cuddalore, Tamilnadu.

Mobile: 9488851155 Email: pd.sathya@yahoo.in

## **LIST OF PUBLICATIONS**

- 1. R. Kalyani, P.D.Sathya and V.P. Sakthivel, 'Trading strategies for image segmentation using multilevel thresholding aided with minimum cross entropy', Engineering Science and Technology, an International Journal, Elsevier, Article in Press, 2020.
- 2. M. Suman, V.P. Sakthivel and P.D. Sathya, On the Robust Solution to Multi-Fuel Environmental Economic Power Dispatch Problem with Fuzzy Instituted EMF Optimization, Bioscience Biotechnology Research Communications Special Issue: Recent Trends in Advanced Information and Communication Technology Vol. 13, No.2, pp. 98-104, 2020.
- 3. V.P. Sakthivel, M. Suman and P.D. Sathya Non-convex Economic Dispatch Problem with Valve Loading Effect via Electromagnetic Field Optimization, Journal of Xidian University, Vol. 14, No. 4, pp. 2884-2889, 2020.
- 4. V.P. Sakthivel, M. Suman and P.D. Sathya, Nonconvex Economic Environmental Load Dispatch Using Fuzzy Based Squirrel Search Algorithm, International Journal on Energy Conversion, <u>Vol. 8</u>, <u>No. 2</u>, pp. 61-70, 2020.
- 5. P. Santhosh Kumar, V.P. Sakthivel, Mandu Raju and P.D. Sathya, "Holistic Review on Brain Tumor Segmentation using Deep Learning", International Journal of Future Generation Communication and Networking, Volume-13, No. 1, pp. 1081-1091, 2020.
- N. Rajesh Kumar and P.D. Sathya, 'Series Feed CSRR Based 2.45 GHz Microstrip Patch Antenna Array', International Journal of Future Generation Communication and Networking, Volume-13, No. 1, pp. 1391-1399, 2020.
- 7. M. Suman, V.P. Sakthivel and P.D. Sathya, "Coalesced Economic and Emission Dispatch of Trifuel Generators in Energy Markets: Multi-Objective Optimization Technique (MO-HOT)", International Journal of Advanced Science and Technology, Vol. 29, No. 3, pp. 7773-7787, 2020.
- 8. B. Shankarlal, P.D. Sathya, "Detection of Abnormal Tumor Regions in Ultrasonic Thyroid Images using SVM", International Journal of Engineering and Advanced Technology (IJEAT), Volume-9 Issue-3, February 2020.
- 9. B. Shankarlal, P.D. Sathya, "Detection of Tumors in Ultra Sound Thyroid Images using Random Forest Classification Method", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-4, February 2020.

- N. Rajesh Kumar and P.D. Sathya, 'Dual-band parasitic Microstrip Patch for Wireless Applications', International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-3, January 2020.
- 11. N. Rajesh Kumar and P.D. Sathya, 'Design of Ultra Wideband Rectenna for Ambient RF Energy Harvesting Applications', International Journal of Recent Technology and Engineering (IJRTE), Scopus Indexed, Volume 8, Issue 3, pp. 2155-2158, September 2019.
- 12. N. Rajesh Kumar and P.D. Sathya, 'Design of RF Energy Harvesting Patch Antenna for Wireless Communications', International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume 8, Issue 10, pp. 2278-3075, August 2019.
- 13. K. Sudhanthira and P.D.Sathya, 'Underwater image fusion for enhancement', International journal of scientific research and review, Vol. 7, No. 5, pp: 45-57, May 2019.
- 14. Kanimozhi Rajasekaran and P.D. Sathya, 'Fractal Image Compression Using Particle Swarm Optimization and Flower Pollination Algorithm for Medical Image' Journal of Computational and Theoretical Nanosccience, Vol. 16, No. 4, pp. 1432–1437, 2019.
- 15. B. Shankarlal and P. D. Sathya, 'Detection and Segmentation of Cancer Region in Ultra Sound Thyroid Images', Journal of Computational and Theoritical Nanosccience, Vol. 16, No. 4, pp. 1593–1596, 2019.
- 16. K.Sudhanthira and P.D.Sathya, 'Color balance and fusion for underwater image enhancement', Pramana research journal, Vol. 9, No. 4, pp: 819-831, 2019.
- 17. N. Rajesh Kumar and P.D. Sathya, 'A Simple Design of Multiband Patch Antenna For RFID and X-Band Frequency Applications', Global Journal of Engineering Science and Researches (GJESR), Vol.6, Issue 2, pp. 52, 2019.
- 18. S. Uma and P.D. Sathya, 'A Detailed Review of Copy-Move Forgery Detection in Digital Image', Global Journal of Engineering Science and Researches (GJESR), Vol.6, Issue 1, pp. 38-49, 2019.
- 19. Kanimozhi Rajasekaran and P.D. Sathya, 'Fractal Image Compression of Various Medical Images Using a Coherent Optimization Technique', Global Journal of Engineering Science and Researches (GJESR), Vol.6, Issue 1, pp. 30-37, 2019.
- 20. R. Kalyani, P.D.Sathya and V.P. Sakthivel, 'A Comprehensive Survey on Multi-Level Thresholding on Image Segmentation', International Journal of research in Advent Technologies, October, pp 246-251, 2018.
- 21. P.D. Sathya, 'BF Algorithm based Image Segmentation using Minimum Cross Entropy', Journal of Emerging Technologies and Innovative Research, Volume 5, Issue 7, pp. 942-947, 2018.
- 22. P.D. Sathya, 'Minimum Cross Entropy based Image Segmentation using New Heuristic Optimization Technique', Global Journal of Engineering Science And Researches, Volume 5, Issue 7, pp. 522-530, 2018.
- 23. P.D. Sathya and M. Thenmozhi, 'Image Segmentation and Bias Correction by Using Maximum Likelihood Algorithm', International Journal of Scientific Research in Science, Engineering and Technology, Volume 5, Issue 3, pp. 244-260, 2018.
- 24. R. Arunmozhi and P. D. Sathya, 'A novel lossless image compression technique using singular value truncating method', International Journal of Applied Engineering Research (IJAER), Vol. 10, No. 16, pp. 36935-36941, 2015.
- 25. R. Arunmozhi and P. D. Sathya, 'An Enhanced Multi-Hybrid Digital Image Watermarking Method for Authentication', Australian Journal of Basic and Applied Sciences, Vol. 6, No. 27, pp. 300-310, 2015.

- 26. P.D. Sathya and R. Kayalvizhi, 'Swarm intelligence algorithm for brain MRI segmentation', International Journal of Computer Engineering and Information Technology (IJCEIT), Vol. 24, No. 1, pp. 66-74, 2010.
- 27. P.D. Sathya and R. Kayalvizhi, 'Optimum multilevel image thresholding based on Tsallis entropy method with bacterial foraging algorithm', International Journal of Computer Science Issues (IJCSI), Vol. 7, No. 5, pp. 336-343, September 2010.
- 28. P.D. Sathya and R. Kayalvizhi, 'A new multilevel thresholding method using adaptive particle swarm optimization for image segmentation', International Journal of Electronics and Communication Engineering (IJECE), Vol. 3, No. 1, pp. 113-124, 2010.
- 29. P.D. Sathya and R. Kayalvizhi, 'A new multilevel thresholding method using swarm intelligence algorithm for image segmentation', International Journal of Intelligent Learning Systems and Applications (JILSA)', Vol. 2, No. 3, pp. 126-138, August 2010.
- 30. P.D. Sathya and R. Kayalvizhi, 'PSO-based Tsallis thresholding selection procedure for image segmentation', International Journal of Computer Applications, Vol. 5, No. 4, pp. 39-46, August 2010.
- 31. P.D. Sathya and R. Kayalvizhi, 'Development of a new optimal multilevel thresholding using improved particle swarm optimization algorithm for image segmentation', International Journal of Electronics Engineering, Vol. 1, No. 2, pp. 63-67, June 2010.
- 32. P.D. Sathya and R. Kayalvizhi, 'Amended bacterial foraging algorithm for multilevel thresholding of magnetic resonance brain images', **Measurement, Elsevier**, Vol. 44, No. 10, pp. 1828-1848, 2011.
- 33. P.D. Sathya and R. Kayalvizhi, 'Optimal Multilevel Thresholding using Bacterial Foraging Algorithm', **Expert Systems with Applications**, **Elsevier**, Vol. 38, No. 12, pp. 15549-15564, 2011.
- 34. P.D. Sathya and R. Kayalvizhi, 'Comparison of Intelligent Techniques for Multilevel Thresholding Problem', **International Journal of Signal and Imaging Systems Engineering, Inderscience,** Vol. 5, No. 1, pp. 43-57, 2012.
- 35. P.D. Sathya and R. Kayalvizhi, 'Optimal Segmentation of Brain MRI Based on Bacterial Foraging Optimization Algorithm', **Neurocomputing**, **Elsevier**, Vol. 74, No. 14-15, pp. 2299-2313, 2011.
- 36. P.D. Sathya and R. Kayalvizhi, 'Modified bacterial foraging algorithm based multilevel thresholding for image segmentation', **Engineering Applications of Artificial Intelligence**, Elsevier, Vol. 24, No. 4, pp. 595-615, 2011. (*Article recognized as one of top 10 highly read and most downloaded articles As counted by article downloads on Science Direct*)