Members from Anna University and Affiliated Colleges
Publications of Dr.R.Umamaheswari – Member 2

1. RU Maheswari, R Umamaheswari," Trends in non-stationary signal processing techniques applied to vibration analysis of wind turbine drive train–A contemporary survey", Mechanical Systems and Signal Processing 85, 296-311,2017

2. S Krishnamurthy, G Narasimhan, U Rengasamy," Three-dimensional lung nodule segmentation and shape variance analysis to detect lung cancer with reduced false positives",Proceedings of the Institution of Mechanical Engineers, Part H,2016

3. TK Senthil Kumar, EN Ganesh, R Umamaheswari," Automatic lung nodule segmentation using auto seed region growing with morphological masking (ARGMM) and feature extraction through complete local binary Pattern and …", EuroMediterranean Biomed J 10, 99-119,2015

4. TK Senthil Kumar, EN Ganesh, R Umamaheswari,"Lung nodule volume growth analysis and visualization through auto-cluster k-means segmentation and centroid/shape variance based false nodule elimination", Biomedical Research,2017

5. S Krishnamurthy, G Narasimhan, U Rengasamy, An automatic computerized model for cancerous lung nodule detection from computed tomography images with reduced false positives",International conference on recent trends in image processing and pattern …,2016

6. S Krishnamurthy, G Narasimhan, U Rengasamy,"Lung nodule growth measurement and prediction using auto cluster seed K-means morphological segmentation and shape variance analysis",International Journal of Biomedical Engineering and Technology 24 (1), 53-71,2017

7. A Sangari, R Umamaheswari," Analysis of impedance source inverter topologies for grid integration of PV inverters", International Journal of Power Electronics and Drive Systems 6 (4),2015

8. RU Maheswari, R Umamaheswari,"Application of wavelet synchrosqueezing transform for wind turbine gearbox fault diagnosis", IEEE International Conference on Computational Intelligence and …,2016

9. N Padmasini, KS Abbirame, R Umamaheswari, SM Yacin," Reduction of Speckle Noise in SDOCT Retinal Images by Fuzzification and Anisotropic Diffusion Filtering", Journal of Biosciences Biotechnology Research Asia (BBRA journal),2015

10. DN Archana, N Padmasini, SM Yacin, R Umamaheshwari," Detection of abnormal blood vessels in diabetic retinopathy based on brightness variations in SDOCT retinal images", IEEE International Conference on Engineering and Technology (ICETECH), 1-4,2015

11. JKM Kumar, HA Rauf, R Umamaheswari," Switched Capacitor-Coupled Inductor DC–DC Converter for Grid-Connected PV System using LFCSO-Based Adaptive Neuro-Fuzzy Inference System,Journal of Circuits, Systems and Computers, 2050201,2020

12. A Sangari, R Umamaheswari, MG Umamaheswari," A Novel SOSMC based SVPWM Control of Z-Source Inverter for AC Microgrid Applications", Microprocessors and Microsystems, 103045,2020

13. S Krishnamurthy, G Narasimhan, U Rengasamy," Early and accurate model of malignant lung nodule detection system with less false positives", Brazilian Archives of Biology and Technology 61,2018

14. RU Maheswari, R Umamaheswari,"Fault diagnostics of wind turbine drive-train using multivariate signal processing", Int. J. Acoust. Vib. 24 (2), 334-342,2019

15. RU Maheswari, R Umamaheswari," Fault Detection of Wind Turbine Planetary Epicyclic Gears Using Adaptive Empirical Wavelet Decomposition Based Hybrid Features", International Conference on Condition Monitoring of Machinery in Non..,2018

16. N Padmasini, R Umamaheswari, MY Sikkandar," State-of-the-Art of Level-Set Methods in Segmentation and Registration of Spectral Domain Optical Coherence Tomographic Retinal Images", Soft Computing Based Medical Image Analysis, 163-181,2018

17. N Padmasini, R Umamaheswari," Detection of neovascularisation using K-means clustering through registration of peripapillary OCT and fundus retinal images", IEEE International Conference on Computational Intelligence and …,2016

18. S Krishnamurthy, G Narasimhan, U Rengasamy," An Level Set Evolution Morphology Based Segmentation of Lung Nodules and False Nodule Elimination by 3D Centroid Shift and Frequency

Domain DC Constant Analysis", International Journal of u-and e-Service, Science and Technology 9 (10), 187-198,2016

19. R Uma Maheswari, R Umamaheswari," Adaptive data-driven nonlinear synchro squeezed transform with single class radial basis function kernel support vector machine applied to wind turbine planetary gearbox fault …", Proceedings of the Institution of Mechanical Engineers, Part A,2020

20. R Umamaheswari, S Chitra, D Kavitha," Reliability analysis and dynamic maintenance model based on fuzzy degradation approach", Soft Computing, 1-16,2020

21. R Umamaheswari, M Ramya Princess, PN Kumar," Improved Whale Optimized MLP Neural Network-Based Learning Mechanism for Multiuser Detection in MIMO Communication System", Journal of Circuits, Systems and Computers, 2050239,2020

22. N Padmasini, R Umamaheswari, R Kalpana, MY Sikkandar," Comparative Study of Iris and Retinal Images for Early Detection of Diabetic Mellitus", Journal of Medical Imaging and Health Informatics 10 (2), 316-325,2020

23. JKM Kumar, HA Rauf, R Umamaheswari," PV control systems using iterated local search MPPT with an improved switched capacitor DC-DC converter", International Journal of Computer Aided Engineering and Technology ,2020

24. N Padmasini, R Umamaheswari, YS Mohamed, MD Sindal," Level Set Methods in Segmentation of SDOCT Retinal Images", Level Set Method in Medical Imaging Segmentation, 99-134,2019

25. JKM Kumar, HA Rauf, R Umamaheswari," An improved design for grid based PV control systems using modified fuzzy logic with an improved switched capacitor DC-DC converter", Cluster Computing 22 (2), 4221-4230,2019

26. N Padmasini, R Umamaheswari," Feature Extraction Through Segmentation of Retinal Layers in SDOCT Images for the Assessment", International Conference on Intelligent Computing and Applications, 153-162.2019

C Nithyanandam, G Baskar, R Umamaheswari," Thermal modeling and performance of a single slope passive solar still with phase change material", Desalination and Water Treatment 103, 1-10,2018.