

## **Dr. R. Shantha Selvakumari,**

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### **Journal Publications**

1. **Dr.S.Selva Nidhyananthan, Mrs.R.Sindhuja, Dr.R.Shantha Selvakumari** published **"Double Stage Gaussian Filter for Better Underwater Image Enhancement"** Wireless Personal Communications, Vol.114, Issue.4, pp.2909-2921, October-2020
2. **Ms.R.Mercy Kingsta, Dr.R.Shantha Selvakumari** published **"A review on coupled and uncoupled multicore fibers for future ultra-high capacity optical communication"** Optik, Vol.199, pp.163341-0, December-2019
3. **Miss.ShanmugaPriya, Dr.S.Selva Nidhyananthan, Dr.R.Shantha Selvakumari** published **"Amended Adaptive Algorithm for Corpus Based Improved Speech Enhancement"** International Journal of Electronics and Telecommunications, Vol.65, Issue.3, pp.513-517, September-2019
4. **Dr.R.Shantha Selvakumari, Miss.K.Seyatha** published **"Performance evaluation of hybrid modulation techniques for high speed radio over fiber communication system"** International Journal of Modern Physics C, Vol.30, Issue.9, pp.19500701-195007012, August-2019
5. **Dr.R.Shantha Selvakumari, Mrs.Mahalakshmi M, Miss.Prashalee.P** published **"Patient-Specific Seizure Detection Method using Hybrid Classifier with Optimized Electrodes"** Journal of Medical Systems, Vol.43, Issue.5, pp.121-126, May-2019
6. **Mr.J.Dani Reagan Vivek, Miss.T. Annapoorani, Dr.R.Shantha Selvakumari, Miss.F.Miraclin, Mr.S.Vijay Gokul** published **"Differently-abled person track and follow robot for luggage transport"** Journal of International Pharmaceutical Research, ISSN: 1674-0440, Vol.46, Issue.1, pp.542-547, April-2019
7. **Mr.J.Dani Reagan Vivek, Dr.R.Shantha Selvakumari, Mr.S.Sridhar Raj, Mr.C. Saravana Kumar, Mr.V. Benil Sam** published **"Two wheel self-balancing robot using PID algorithm for carrying medicine"** Journal of International Pharmaceutical Research, ISSN: 1674-0440, Vol.46, Issue.1, pp.553-559, April-2019
8. **Mr.S. Vijay Anand, Dr.R.Shantha Selvakumari** published **"Noninvasive method of epileptic detection using DWT and generalized regression neural network"** Soft Computing, Vol.23, Issue.8, pp.2645-2653, April-2019
9. **Mr.J.Dani Reagan Vivek, Dr.R.Shantha Selvakumari, Dr.K.Gopalakrishnan, Miss.A. Nasreen Fathima, Miss.S. Swarna Deepika** published **"Mobile drug delivery robot in dynamic environment"**

- using fuzzy path planning"** Journal of International Pharmaceutical Research, ISSN: 1674-0440, Vol.46, Issue.1, pp.553-559, April-2019
10. **Dr.R.Shantha Selvakumari, Ms.E.Rajalakshmi** published **"Very large-scale integration architecture for wavelet-based ECG signal adaptive coder"** IET Signal Processing, Vol.13, Issue.1, pp.56-64, February-2019
  11. **Mrs.A. Chithra, Dr.R.Shantha Selvakumari** published **"A New Energy Efficient Clustering Protocol for a Novel Concentric Circular Wireless Sensor Network"** Wireless Personal Communications, Vol.103, Issue.03, pp.2455-2473, December-2018
  12. **Dr.R.Shantha Selvakumari, Miss.P.Ilamathi** published **"DVB-S2X based Non-Linear Distortion Cancellation using 64-APSK for Satellite Forward Link"** Indian Journal of Science and Technology, Vol.11, Issue.36, , October-2018
  13. **Dr.R Meena Prakash, Dr.R.Shantha Selvakumari** published **"Edge Preserving Image Segmentation using Spatially Constrained EM algorithm"** International Arab Journal of Information Technology, Vol.15, Issue.5, pp.927-933, September-2018
  14. **Dr.R.Shantha Selvakumari, Miss.R.S.Suganthi, Miss.P.SuriyaVarshini** published **"Optically Transparent Dielectric Water Patch Antenna"** Optically Transparent Dielectric Water Patch Antenna, Vol.2, Issue.2, , May-2018
  15. **Dr.P. Kannan, Miss.A. Antony Licy, Dr.R.Shantha Selvakumari** published **"Design of Low Noise Amplifier using Positive Feedback Gain Enhancement Technique"** Int. J. Advanced Networking and Applications, Vol.09, Issue.05, pp.3563-3570, April-2018
  16. **Dr.M.N.Sumaiya , Dr.R.Shantha Selvakumari** published **"Unsupervised change detection of flood affected areas in SAR images using Rayleigh based Bayesian thresholding"** International Journal of IET Radar, Sonar, Navigation, pp.1-5, March-2018
  17. **Dr.R.Shantha Selvakumari, Miss.C.Gayathri** published **"FPGA Based Communication For a Disabled Person Using Morse Code"** International Journal of Pure and Applied Mathematics , Vol.119, Issue.7, pp.1173-1178, March-2018
  18. **Dr.R.Shantha Selvakumari, Miss.P.Ilamathi** published **"QPSK and 32-APSK Based Non-Linear Distortion Cancellation in Satellite Forward Link"** International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE), Vol.4, Issue.12, pp.20-25, December-2017
  19. **Dr.R.Shantha Selvakumari, Miss.S.Vineth Ligi** published **"Design of Wireless Passive Optical Communication Network Based On Fusion of Fiber to the X Architecture"** International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE), Vol.4, Issue.12, pp.26-31, December-2017
  20. **Mrs.A. Chithra, Dr.R.Shantha Selvakumari** published **"A novel 3- level energy heterogeneity clustering protocol with hybrid routing for a concentric circular wireless sensor network"** Clustering Computing, Springer, October-2017

21. **Mrs.M.N.Sumaiya, Dr.R.Shantha Selvakumari** published "**Satellite Image Change Detection Using Laplacian Gaussian Distributions**" International Journal Wireless Personal Communications, August-2017
22. **Dr.S.Selva Nidhyananthan, Miss.A.R. Madumathi, Dr.R.Shantha Selvakumari** published "**Sign to Speak – Hand Shape descriptors and Speech Translation Technique based Tamil Alphabet Fingerspelling Recognition System**" Journal Advances in Natural and Applied Sciences, Vol.11, Issue.8, pp.485-498, July-2017
23. **Mrs.M.N.Sumaiya, Dr.R.Shantha Selvakumari** published "**Gabor filter based change detection in SAR images by Ki Threshold**" Optik-International Journal for Light and Electron optics February 2017, Vol.130, pp.114-122, February-2017
24. **Mrs.R.MeenaPrakash, Dr.R.Shantha Selvakumari** published "**Spatial Fuzzy C Means and expectation Maximization algorithm with bias correction for segmentation of MR Brain Images**" Journal of Medical Systems, Springer, January 2017, Vol.41, Issue.1, January-2017
25. **Mrs.M.N.Sumaiya , Dr.R.Shantha Selvakumari** published "**Logarithmic Mean Based thresholding for SAR image change detection**" IEEE Geoscience and Remote sensing letters, November 2016, Vol.13, Issue.11, pp.1726-1728, November-2016
26. **Dr.S.Selva Nidhyananthan, Miss.T. Punithapandeeswari, Dr.R.Shantha Selvakumari** published "**An Efficient Assessment Methodology for the Diagnosis of Neurological Disorders from the Uttered Speech Signal**" Asian journal of research in social sciences and humanities, Vol.6, Issue.10, pp.404-420, October-2016
27. **Mrs.M.N.Sumaiya , Dr.R.Shantha Selvakumari** published "**Comparative study of statistical Modeling of Wavelet coefficients for SAR image despeckling**" International Journal of Wavelets Multi resolution and information processing, October 2016, Vol.15, Issue.1, pp.1-18, October-2016
28. **Mrs.A.Jasmine Xavier, Dr.R.Shantha Selvakumari** published "**Modified Potential function for obstacle Avoidance in an unknown Environment**" Asian Journal of Information Technology, September 2016, Vol.15, Issue.13, pp.2191-2200, September-2016
29. **Mrs.R.MeenaPrakash, Dr.R.Shantha Selvakumari** published "**Gaussian Mixture Model with the Inclusion of Spatial Factor and Pixel Re-labelling: Application to MR Brain Image Segmentation**" International Journal of Arabian Journal for Science and Engineering, August 2016, Vol.42, Issue.2, pp.595-605, August-2016
30. **Dr.R.Shantha Selvakumari, Miss.M. N. Sumaiya** published "**SAR image despeckling using heavy-tailed Burr distribution**" International Journal of Signal, Image and Video Processing , , August-2016
31. **Dr.S.Selva Nidhyananthan, Dr.R.Shantha Selvakumari, Miss.T. Senthur Selvi** published "**Noise Robust Speaker Identification Using RASTA–MFCC Feature with Quadrilateral Filter Bank Structure**" Wireless Personal Communications , Vol.89, Issue.4, , August-2016

32. **Dr.S.Selva Nidhyananthan, Dr.R.Shantha Selvakumari, Miss.V.Shenbagalakshmi** published "**Assessment of dysarthric speech using Elman back propagation network (recurrent network) for speech recognition**" International Journal of Speech Technology , Vol.19, Issue.3, pp.577-583, July-2016
33. **Dr.R.Shantha Selvakumari, Miss.S. Viji** published "**Decentralized Algorithm for Transmit Power Minimization of Multicell MIMO Cognitive Radio Networks**" Middle-East Journal of Scientific Research , Vol.24, Issue.S1, pp.425-431, July-2016
34. **Mrs.Meena Prakash R, Dr.R.Shantha Selvakumari** published "**Fuzzy C Means Integrated With Spatial Information and Contrast Enhancement for Segmentation of MR Brain Images**" International Journal of Imaging Systems and Technology , , June-2016
35. **Mrs.R . Meena Prakash, Dr.R.Shantha Selvakumari** published "**Fast Anisotropic Filter based EM with Spatial Information for Segmentation of Noisy Images** " International Journal of Institute of Integrative Omics and Applied Biotechnology , Vol.7, Issue.3, pp.66-76, May-2016
36. **Dr.R.Shantha Selvakumari, Mrs.A. Chithra, Miss.M. Balkis Devi** published "**Efficient 2-level Energy Heterogeneity Clustering Protocols for Wireless Sensor Network**" Indian Journal of Science and Technology , Vol.9, Issue.8, , February-2016
37. **Dr.S.Selva Nidhyananthan, Mr.Prasad M., Dr.R.Shantha Selvakumari** published "**Secure Speaker Recognition using BGN Cryptosystem with Prime Order Bilinear Group**" International Journal of Information Security and Privacy, Vol.9, Issue.4, pp.1-19, January-2016
38. **Dr.R.Shantha Selvakumari, Miss.S.Viji** published "**Cued Click Points Password Authentication using Picture Grids**" International Journal of Computer Science and Network (IJCSN) , Vol.4, Issue.6, pp.911-917, January-2016
39. **Dr.R.Shantha Selvakumari, Ms.P.Induja** published "**Wavelet Based Classification of Finger Movements Using EEG Signals**" International Journal of Computer Science and Network, Vol.4, Issue.6, pp.903-910, December-2015
40. **Dr.R.Shantha Selvakumari, Miss.R.Sangeetha** published "**Conversion of English Text-to-Speech (TTS) Using Indian Speech Signal**" International Journal of Scientific Engineering and Technology , Vol.4, Issue.8, pp.447-450, August-2015
41. **Dr.S.Selva Nidhyananthan, Miss.M. Pradeepa, Miss.V. Mathangi Mathi Vathana , Dr.R.Shantha Selvakumari** published "**A New Framework for Multichannel Speech Source Separation and Speaker Recognition**" World Applied Sciences Journal, Vol.33, Issue.5, pp.777-783, July-2015