PUBLICATIONS- Dr. M G SUMITHRA

SCI Indexed (7)

- 1. Sumithra Palanisamy Manimegalai Govindan, Prakash Duraisamy and Xiaohui Yuan," Adaptive wavelet shrinkage for noise robust speaker recognition", Elsevier Journal of Digital Signal Processing, Vol.33, pp.180-190. October 2014. (http://dx.doi.org/10.1016/j.dsp.2014.06.007)(1.792)
- 2. K.RamaAbirami and M.G.Sumithra,"Evaluation of neighbor credit value based AODV routing algorithms for selfish node behavior detection", The Journal of Networks ,Software Tools and Applications Published online Jan.2018.(ISSN 1386-7857, DOI:10.1007/s10586-018-1851-6)
- 3. B.Deepa, M.G.Sumithra,"An intensity factorized thresholding based segmentation technique with gradient discrete wavelet fusion for diagnosing stroke and tumor in brain MRI", "Multidimensional Systems and Signal Processing". Issue no:1-13, April 2019. ISSN/ISBN 0923-6082. (IF 2.08).
- 4. V.Chandran, M.G.Sumithra, M.Suriya, "Enhanced Deep Convolutional Neural Network for Malarial Parasite Classification", International Journal of Computers and Applications ,ISSN 1206-212X(print) ,1925-7-74C(online) DOI:10.1080/1206212X.2019.167227(h index-12 published by Taylor & Francis)
- 5. Pravin Kumar S K,M.G.Sumithra, "Artificial bee colony-based fuzzy c means (ABC-FCM) segmentation algorithm and dimensionality reduction for leaf disease detection in bioinformatics" The journal of softcomputing, (Springer) (IF2.367) DOI 10.1007/s11227-019-02999-Z

Scopus Indexed (32)

- 6. Sumithra M. G., Thanushkodi, K. and Anitha, M. R. "Modified Time Adaptive Wavelet Based Approach for Enhancing Speech from Adverse Noisy Environments", International Congress for global Science and Technology DSP Journal, Volume 9, Issue 1, pp.33-40, 2009.
- 7. Sumithra M. G., Thanushkodi, K. and Deepa, D. "Noisy Speech Enhancement using Frequency Dependent Spectral Subtraction Method", Indian journal of Science and Technology, Vol. 3, No. 1, pp. 16-23, 2009.
- 8. Sumithra M. G. and Thanushkodi, K. "Performance Evaluation of Different Thresholding Methods in Time Adaptive Wavelet Based Speech Enhancement", International Journal of Engineering and Technology (IJET) Volume 1, Issue 5, pp.439-447, 2009.
- 9. Sumithra M. G., Thanushkodi, K. and Deepa, B. "A New Hybrid Approach to Enhance Speech in Mobile Communication Systems", American Journal of Applied Sciences, Vol.8, Issue 4, pp. 232-242, 2011. (With impact factor SNIP of 0.091 and SJR of 0.042).
- 10. Sumithra M. G., Thanushkodi, K. and Helan Jenifer Archana ,A. "A New Speaker Recognition System with Combined Feature Extraction Techniques", Journal of Computer Science, Vol. 7, Issue 4, pp.459-465, 2011. (With impact factor SNIP of 0.162 and SJR of 0.034).
- 11. Sumithra M.G., Thanushkodi, K. and Helan Jenifer Archana ,A. "Robust Speaker Recognition System using Combined Feature Extraction Techniques", International Journal of Information analysis and Processing, Vol. 4,No. 1, pp.27-33, 2011.
- 12. Sumithra M. G., Sarumathi M, "PAPR reduction techniques for Multicarrier systems" Springer journal of CCIS, Vol.270,pp. 378-387,2011.
- 13. Sumithra M. G., Devika A K "Performance Analysis of Speaker Identification System Using GMM with VQ" International Journal of Computer Network and Security (IJCNS)Vol 4. No 1. Jan-Mar 2012 ISSN: 0975-8283(www.ijcns.com)
- 14. Renugadevi G and Sumithra, M. G., "An Analysis on LEACH Mobile Protocol for Mobile Wireless Sensor Networks", International Journal of Computer Applications (0975–8887) Volume 65 –No.21, pp. 38-42, March 2013.
- 15. Remya Elizabeth Philip. and Sumithra, M. G., "SVD based Watermarking Method for Medical Image Security", International Journal of Computer Applications (0975 8887) Volume 66– No.2, pp29-

- 33,March 2013
- 16. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance Analysis of Rician Fading Channels in MSK and GMSK Modulation Schemes Using Simulink Environment" International Journal of Engineering Research and Technology (IJERT) Vol.2 Issue 5, May-2013, Online ISSN: 2278-0181.
- 17. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance Analysis of Rayleigh Fading Channels in MIMO-OFDM Systems for BPSK and QPSK modulation schemes" SIJ Transactions on Computer Networks and Communication Engineering (CNCE), Vol, 1, No.1, page(s):12-17, March-April 2013. Print ISSN: 2321-239X, Online ISSN: 2321-2403.
- 18. E.Praveen Kumar, Dr.M.G.Sumithra, "Medical Image Compression Using Integer Multi Wavelets Transform for Telemedicine Applications", International Journal of Engineering and Computer Science (IJECS ISSN: 2319-7242), Volume 2, Issue 5, pp.no. 1663-1669, May, 2013.
- 19. Murali Krishnan, M.G.Sumithra, "Random Detection of Anthracnose of Mango by Differential Clustering", The International Journal Of Science & Technoledge (ISSN 2321 919X), Vol 2 Issue 4,288-294,2014.
- 20. Deepa, B and Sumithra M. G., ,"MRI Medical Image Denoising by Combined Spectral Subtraction and Wavelet Based Methods," ARPN Journal of Engineering and Applied Sciences, VOL. 10, NO. 4,pp.1815-1821, MARCH 2015(ISSN 1819-6608)(0.792)
- 21. P.Rajeswari, M.G.Sumithra and V.Premalatha,"Moving object Recognition using Recursive Algorithm", International Journal of Research in Engineering & Advanced Technology, Volume 3, Issue 11, pp.no.1581-1586, November 2014.
- 22. Asha Soms and Sumithra M.G, "A Study on Brain Tumour Detection from Magnetic Resonance Images" International Journal of Research in Engineering & Advanced Technology, Volume 3, Issue 2, pp.265-268, May 2015.
- 23. Deepa, B and Sumithra M. G.," A new hybrid methodology in denoising and segmentation for detection of tumor in MRI brain images," International Journal of Advanced Engineering Technology E-ISSN 0976-3945, Vol. VII, Issue II pp.no. 10-14, April-June, 2016.
- 24. K. Rama Abirami, Sumithra M. G. and J.Rajasekar" Analytical Study on the impact of Selfish Node Behaviors Attack and Black Hole Attack Under MANET," International Journal of Advanced Engineering Technology E-ISSN 0976-3945, Vol. VII, Issue II pp.no. 101-110, April-June, 2016.
- 25. Deepa, B and Sumithra M. G.," A New Amalgam Technique in CAD System for Detection of Abnormality in MRI Brain Images", Advances in Natural and Applied Sciences. 10(4),pp.no. 95-103, April 2016
- 26. K. Rama Abirami, and Sumithra M. G." An Enhanced Study on the impact of Selfish Node Behaviors Attack and Black Hole Attack Under MANET,"Middle –East Journal of Scientific Research, ISSN 1990-9233, Vol. 24(12), pp.no. 3696-3705, Dec.2016.
- 27. Deepa, B and Sumithra M. G.," An Intelligent Hybrid Approach for Brain Pathology Detection in MRI Images, Pak. Journal of Biotechnology, Vol.13, Special Issue II, pp.no. 7-12, December 2016.
- 28. K. Rama Abirami, and Sumithra M. G." An Improved Neighbor Credit Value Based AODV Routing Algorithm for Preventing the Impact of Selfish Behavior under MANET", World Applied Sciences Journal, ISSN 1818-4952, Vol. 35(3), pp.no. 334-343,2017.
- 29. Pravin kumar.S.K, M.G.Sumithra and N.Saranya, "Comparative study of diseases classification on plant leaves using evolutionary algorithms" Journal of Graphic Technology, vol. 14, pp. no. 2335-2348, 2018
- 30. Pravin Kumar S K,M.G.Sumithra, "Particle Swarm Optimization (PSO)with fuzzy c means (PSOFCM)—based segmentation and machine learning classifier for leaf diseases prediction", Concurrency and Computation- Practice and Experience, Special Issue1-13, April 2019.

UGC approved journals(33)

31. Sumithra M. G., Thanushkodi, K. and Ramya, M. S. "Speech recognition in noisy environment using different feature extraction techniques", International Journal of Computational Intelligence and Telecommunication systems, Vol.2, No.1, pp.57-62, 2011.

- 32. Sumithra M. G., Sarumathi M, "A Novel Adaptive Modulation Scheme for WiMAX OFDM System to Improve QoS for Disaster Management", Bonfring International Journal of Research in Communication Engineering, Vol. 2, Special Issue 1, Part 1, pp.22-27 February 2012.
- 33. Sumithra M. G., Sarumathi M and Devika A K, "PAPR Reduction by Hybriding PTS-APPR Method to Improve the QoS in OFDM Systems", Bonfring International Journal of Research in Communication Engineering, Vol. 2, Special Issue 1, Part 1,pp15-20, February 2012.
- 34. Sumithra M. G., Devika A K "Text-Independent Speaker Identification Using GMM-EM Optimization Algorithm" International Journal of Research in applied physics Vol.1.N0.1, pp.19-24,2012
- 35. Sumithra M. G., Devika A K "Performance Analysis of Speaker Identification System Using GMM with VQ" International Journal of Computer Network and Security (IJCNS)Vol 4. No 1. Jan-Mar 2012 ISSN: 0975-8283(www.ijcns.com)
- 36. Manojkumar V. and Sumithra, M. G., "Performance Evaluation of different Algorithms for Medical Image Segmentation" International Journal of Micro and Nano Systems, vol.1, Issue 4, pp.no. 369
- 37. -372, Nov. -Dec.2012
- 38. Renugadevi G and Sumithra, M. G., "Hierarchical Routing Protocols for Wireless Sensor Network—A Survey", International Journal of Smart Sensors and Ad Hoc Networks (IJSSAN), ISSN No. 2248-9738 (Print), pp.no.71-75, Vol-2, Iss-1,2, 2012.
- 39. Manoj kumar V and Sumithra M G," Performance Comparison Of Different Medical Image Segmentation Algorithms For Normal And Abnormal Brain MRI" International Journal of Latest Research in Science and Technology ISSN (Online):2278-5299 Vol.1,Issue 4: Page No.369-372
- 40. November-December (2012)
- 41. Remya Elizabeth Philip. and Sumithra, M. G., "Development of A New Watermarking Algorithm For Telemedicine Applications", International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 Vol. 3, Issue 1, pp.962-968, January -February 2013.
- 42. Manoj kumar V and Sumithra M G,"An Improved Clustering Based segmentation Algorithm For Brain MRI", International Journal of Application or Innovation in Engineering & Management Volume 2, Issue 2, pp126-133, 2013.
- 43. Manoj kumar V and Sumithra M G," Performance Evaluation of Different Algorithms for Medical Image Segmentation", IJMNS ,international science press ,Vol.3 No.2, pp.100-106,2013...
- 44. Manoj kumarV and Sumithra M G," Comparative Analysis Of Different Filters For Denoising In Medical Image Segmentation", Elixir Elec. Engg. 57 (2013) 14120-14124, April 2013.
- 45. Manoj kumarV and Sumithra M G," Performance Comparison On Medical Image Segmentation Algorithms", International Journal of Image Processing and Vision Sciences (IJIPVS) ISSN(Print): 2278 1110 Volume. 1 Issue. 3, 4.,pp.39-44, 2013
- 46. Karthika A L, SumithraM G and Shanmugam A, "Performance of voice in integrated WiMAXWLAN and UMTS-WLAN" International Journal of Innovative Research in Science, Engineering and Technology, Vol. 2, Issue 4, April 2013 ISSN: 2319-8753
- 47. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance Evaluation of Rician Fading Channels using QPSK, DQPSK and OQPSK Modulation Schemes in Simulink Environment" International Journal of Engineering Science Invention(IJESI) Vol 2 Issue 5, May-2013,pp-07-16, ISSN (Online):2319-6734, ISSN(Print):2319-6726
- 48. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "An Insight about Current Research Ideas in Wireless Communication-A Review" International Journal of Computer Science and Engineering Technology (IJCSET), ISSN: 2229-3345, Vol.4 No.05, May 2013, pp. 497-502
- 49. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance Comparison of Rayleigh and Rician Fading Channels in QAM modulation scheme using Simulink environment" International Journal of Computational Engineering Research (IJCER), Vol 03, Issue 5, May 2013, pp:53-59.
- 50. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance Evaluation of Rayleigh Multipath Fading Channel using Rectangular QAM schemes" International Journal of Computer Science and Mobile Computing (IJCSMC), ISSN 2320-088X, Vol.2, Issue.5, May 2013, pg.346-352. IMPACT FACTOR:1.972

(ISRA:JIF)

- 51. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance Analysis of Rician Fading Channels using M-PAM Modulation Scheme in Simulink environment" International Journal of Engineering and Computer Science (IJECS), ISSN:2319-7242, Vol.2, Issue.5, May 2013, pg.1539-1545
- 52. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance Analysis of Rician Fading Channels using Non-linear Modulation Methods with Memory Schemes in Simulink environment" International Organization of Scientific Research- Journal of Computer Engineering (IOSR-JCE), e-ISSN:2278-0661, p-ISSN:2278-8727, Volume 11, Issue 4 (May-June 2013), pp. 27-36. DOI (Digital Object Identifier) number is 10.9790/0661-1142736.
- 53. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance evaluation of Rayleigh and Rician Fading Channels using M-DPSK Modulation Scheme in Simulink Environment" International Journal of Engineering Research and Application (IJERA), ISSN:2248-9622, Vol.3, Issue 3, May- June 2013, pp.1324-1330. IMPACT FACTOR-1.62 (ISRA:JIF)
- 54. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, "Performance Comparison of Multipath Rayleigh Fading Channels using M-PAM and Rectangular QAM Schemes in Digital Communication Systems" International Journal of Application or Innovation in Engineering and Management (IJAIEM), ISSN: 2319-4847, Vol 2, Issue 5, May 2013, pp.371-378. IMPACT FACTOR- 2.379(ISRA:JIF)
- 55. P.Sunil Kumar, M.G.Sumithra M.Sarumathi, "Performance Analysis of Rayleigh Fading Channels in the Presence and Absence of Transmit Beamforming in MIMO Systems", International Journal of Advanced Research (IJAR), ISSN: 220-5407, Vol.1 Issue 5, July 2013, pp. 402-406, IMPACT FACTOR: 1.659 (ISRA:JIF)
- 56. E.Praveen Kumar, Dr.M.G.Sumithra, "Medical Image Compression Using Integer Multi Wavelets Transform for Telemedicine Applications", International Journal of Engineering and Computer Science (IJECS ISSN: 2319-7242), Volume 2, Issue 5, pp.no. 1663-1669, May, 2013.
- 57. E.Praveen Kumar, Dr.M.G.Sumithra and Sunil Kumar P "Infarct Detection In Brain MRI Using Improved Segmentation Algorithm And Volume Visualization" in International Journal of Computer Science and Mobile Computing, Volume 2, Issue 10, October 2013(ISSN: 2320-088X, http://www.ijcsmc.com/)
- 58. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, E.Praveen Kumar, "Performance Analysis of a 2 x 2 SFBC and STBC MIMO-OFDM System in a Rayleigh Fading Channel using QPSK Modulation" International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS), Vol 2, Issue 6, November 2013, ISSN: 2319-1953
- 59. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, E.Praveen Kumar, "Performance Comparison of Multi Antenna OFDM Systems in Rayleigh and Rician Fading Channels using QPSK Modulation" Journal of Harmonized Research in Engineering (JOHR), Volume 1, Issue 2, November 2013, pp:16-23, www.johronline.com
- 60. P.Sunil Kumar, M.G.Sumithra, M.Sarumathi, E.Praveen Kumar, "Performance Comparison of 2 x 1 and 2 x 2 Differential STBC RS OFDM Systems Under Different Modulation in a Rayleigh Channel", International Journal of Electrical, Electronics and Data Communication (IJEEDC), ISSN:2320-2084, Volume.1, Issue 9, November-2013
- 61. Premalatha.V & Sumithra.M.G., "Implementation of Spatial FCM for image segmentation in Pest detection" has been published in International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Volume 4, Issue 10, October 2014
- 62. Premalatha.V, Valarmathy.S & Sumithra.M.G., "Disease identification in cotton plants using Spatial FCM & PNN classifier" has been published in International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE), Volume3, Issue4, April 2015.
- 63. N.G.Pavithra ,M.G.Sumithra and E.Shalini ,"Lifetime Optimization in WSN by Healing Mechanism", International Journal of Advanced Research in Electronics and Communication Engineering, Volume.5.Issue.4.,.April-2016,pp..927-930
- 64. Sofia Merlin and Sumithra.M.G.," "Estimating Node Density and Achieving Energy Efficient In Wireless Sensor Networks", International Journal of Advanced Engineering Research and Science (IJAERS) Vol-3, Issue-4, pp.no.146-150, April- 2016.

- 65. G.R.Gayathri ,M.G.Sumithra," Leaf Disease Diagnosis and Pesticide Spraying Using Agricultural Robot (AGROBOT)", International Journal of Advanced Research in Electronics and Communication Engineering, Volume.5.Issue.4., April-2016,pp.1087-1091.
- 66. Shriram A M and Sumithra M.G.," Prevention and Monitoring of Traffic Congestion using GPSR in VANET", International Journal for Trends in Engineering and Technology, vol.20, issue1, February 2017.
- 67. Gunasekaran M and Sumithra M.G.," An Enhanced study on the Simlation of Selfish Behavior Attack and Black hole Attack on the Performance of Mobile ADHOC Network daptive Load control for Zig Bee based WBANS with coexisting Wi-Fi networks", International Journal for Trends in Engineering and Technology, vol.21, issue1, February 2017.
- 68. V.Gnanaprakash M.G.Sumithra, Ms.Raghavi S ,"Brain Tumor Extraction using Back Propagation Neural Network", International Journal of Computer & Mathematical Sciences & ISSN 2347 8527,2017.
- 69. C. Poongodi D. Deepa, M. G. Sumithra, "Performance Analysis of Communication System based on Diversity and Spatial Multiplexing with Antenna Grouping Techniques", in IJEECS, Vol.6, Issue 9, ISSN 2348-117X, Sep. 2017.
- 70. D. Deepa, M. G. Sumithra, Dr. C. Poongodi, "Performance Analysis of Dual Channel Speech Enhancement Method With DCT and Hadamard Transforms Using Normalized Lattice Recursive Least Square Algorithm ", International Journal of Advance research in Science and Engineering, Vol. 6, Issue No. 10, pp. no. 1887-1895 October 2017.