

Publication List of Debjani Mitra in SCI Journals

1. Maiti, P., Mitra, D. Ordinary kriging interpolation for indoor 3D REM. *J Ambient Intell Human Comput* (2022).
2. Pradipta Maiti, Debjani Mitra, Complexity reduction of ordinary kriging algorithm for 3D REM design, *Physical Communication*, Volume 55, 2022, 101912, ISSN 1874-4907
3. Maiti, P., Mitra, D. Three Dimensional Measuring Points Locating Algorithm Based Texture-Patched Matrix Completion for Indoor 3D REM Design. *Wireless Pers Commun* **126**, 1075–1099 (2022).
4. Singh, S., Mitra, D. and Baghel, R.K., 2022. Co-operative SWIPT system over FTR fading channel in mobile network scenario. *Journal of Ambient Intelligence and Humanized Computing*, pp.1-14.
5. Ghosh, S. M., Bandyopadhyay, S., and Mitra, D. (2021). Nonlinear classification of emotion from eeg signal based on maximized mutual information. *Expert Systems with Applications*, 185:115605.
6. Singh, S., Mitra, D. and Baghel, R.K., 2021. Impact of user mobility on wireless powered network for AF and DF relaying over FTR fading channel. *Wireless Networks*, 27(8), pp.5057-5072.
7. Sukriti, Chakraborty, M. and Mitra, D., 2021. Epilepsy seizure detection using kurtosis based VMD's parameters selection and bandwidth features. *Biomedical Signal Processing and Control*, 64, p.102255
8. Sukriti, Chakraborty, M. and Mitra, D., 2021. A novel automated seizure detection system from EMD-MSPCA denoised EEG: Refined composite multiscale sample, fuzzy and permutation entropies based scheme. *Biomedical Signal Processing and Control*, 67, p.102514
9. Varma, A.K., Karjee, J., Mitra, D. et al. A self-adaptive network for multi-robot warehouse communication. *Computing* **103**, 333–356 (2021).
10. Sukriti, Chakraborty, M. and Mitra, D., 2021. Automated detection of epileptic seizures using multiscale and refined composite multiscale dispersion entropy. *Chaos, Solitons & Fractals*, 146, p.110939
11. Sukriti, Chakraborty, M. and Mitra, D., 2021. A computationally efficient automated seizure detection method based on the novel idea of multiscale spectral features. *Biomedical Signal Processing and Control*, 70, p.102990
12. Singh, S, Debjani Mitra , Baghel, R.K., “ Wireless powered communication network optimization using PSO-CS algorithm, *Wireless Networks* (2021)
13. Singh, S, Debjani Mitra , Baghel, R.K., “Performance Evaluation of Relay assisted Wireless Powered network over Fluctuating Two-ray fading channel with Diversity reception *Wireless Personal communication* (2021)
14. Bepari, D., Koley, S. & Mitra, D. Empirical validation and performance of duty cycle–based DTMC model in channel estimation. *Ann. Telecommun.* 75, 229–240 (2020).
15. Shukla, Sumitra & Singh, Sachin & Mitra, Debjani. An efficient heart sound segmentation approach using kurtosis and zero frequency filter features. *Biomedical Signal Processing and Control.*, 2020
16. A. K. Varma and D. Mitra, “Statistical Feature based SVM Wideband Sensing”, in *IEEE Communication Letters*, Vol 24, No. 3 March 2020
17. Ashwini K. Varma and D. Mitra, “A Novel Cloud Based Self-Adaptive Cognitive Radio Network Architecture” in *AEU - International Journal of Electronics and Communications*, vol. 106, pp. 32-39, July 2019.
18. S. Koley, D. Bepari, D. Mitra, “Predictive Multi-user Dynamic Spectrum Allocation Using Hidden Semi-Markov Model” *Journal of Communications Technology and Electronics*, Vol. 63, No.12, pp 1393–1405, Dec 2018.
19. D. Bepari, D. Mitra, “Performance of GA in Power Allocation for Underlay Cognitive Radio Systems” *Journal of Communications Technology and Electronics*, Vol. 63, No. 10, pp. 1250–1258, Oct 2018.
20. Mohanty, C.S., Khuntia, P.S. & Mitra, D. “ Design of Stable Nonlinear Pitch Control system for a jet aircraft by using Artificial Intelligence” *Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci., Springer* (2017).
21. Ranjan, R. & Mitra, D., “GA Optimized HMM error model for OFDM, *Wireless Personal Commun* (2017).
22. S. Koley and D. Mitra, “A frequency-reconfigurable elliptical monopole antenna for cognitive radio networks *Turkish Journal of Electrical Engineering and Computer Sciences*, 2016.
23. Dipen Bepari, Abhishake K. Bojja, B. Sandeep Kumar and Debjani Mitra, “ A Spectral Distance based Power Control scheme for Capacity Enhancement of OFDM Cognitive Radio”, *Wireless Personal Communications*, Vol 90, no. 1, pp 157-173, April, 2016.
24. A. Roy and D. Mitra. "Unscented-Kalman-Filter-Based Multitarget Tracking Algorithms for Airborne Surveillance Application", *Journal of Guidance, Control, and Dynamics*, Vol. 39, No. 9, pp. 1949-1966, 2016.
25. A. Roy and D. Mitra, "Multi-target trackers using cubature Kalman filter for Doppler radar tracking in clutter," in *IET Signal Processing*, vol. 10, no. 8, pp. 888-901, 10 2016.
26. D. Bepari and D. Mitra, "Improved power loading scheme for orthogonal frequency division multiplexing based cognitive radio," in *IET Communications*, vol. 9, no. 16, pp. 2033-2040, 11 5 2015.
27. S. Koley, V. Mirza, S. Islam and D. Mitra, "Gradient-Based Real-Time Spectrum Sensing at Low SNR," in *IEEE Communications Letters*, vol. 19, no. 3, pp. 391-394, March 2015.17.895
28. R. Ranjan and D. Mitra, “HMM modeling for OFDM–BER performance”, *AEU, Int. Journal of Electronics and Communications*, Elsevier, Vol. 69, pp. 18-25, 2015.

29. S. Koley and D. Mitra, "A planar microstrip-fed tri-band filtering antenna for WLAN/WiMAX applications", *Microwave and Optical Technology Letters*, vol. 57, no. 1, pp. 233-237, 2015.
30. S. Koley, D. Bepari and D. Mitra, "Band-Reconfigurable Monopole Antenna for Cognitive Radio applications", *IETE Journal of Research*, vol. 61, No. 4, pp. 411-416, 2015.
31. G. C. Nandi and Debjani Mitra, "Fusion Strategies for Minimizing Sensing-Level Uncertainty in Manipulator Control", *Journal of Intelligent and Robotic Systems: Springer Science*, Volume 43, No. 1, 1-32 May 2005.
32. G. C. Nandi and Debjani Mitra, "Development of a sensor fusion strategy for robotic application based on geometric optimization", *Journal of Intelligent and Robotic Systems*, 35: pp. 171-191, Kluwer Academic Publishers, 2002.

List of other journal publications (Scopus and others)

1. Chandra Shekhar Singh, Krishna Kant singh, Debjani Mitra "Energy efficient power allocation for OFDMA based cognitive radio" pp 403-407, Communication and Computing Systems 2017 Taylor & Francis Group, London, ISBN 978-1-138-02952 (2017)
2. C.S. Mohanty, P.S.Khuntia, D.Mitra "The Modified Bacterial Foraging Optimized PID Controller for Time delay system", *International Journal of Advanced Intelligent Paradigms*, Inderscience publisher in Vol 6, Issue3., 2014.
3. Rakesh Ranjan, Debjani Mitra "Performance of HMM based Burst Error Modeling for CDMA and OFDM Transmissions" *Journal of Wireless Networking and Communications* 2013, 3(5): 63-73 DOI: 10.5923/j.jwnc.20130305.01
4. Astha Sharma and Debjani Mitra, "Outage based Underlay Cognitive Radio deployment for a Cellular Network", *International Journal of Applied Engineering Research* ISSN 0973-4562 Vol 10, No. 22 (2015), pp 43052 – 43058
5. Rakesh Ranjan, Dipen Bepari, Debjani Mitra "Genetic Algorithm Based Finite State Markov Channel Modeling", *International Journal of Wireless Communications and Mobile Computing* Vol. 1, No. 4, pp. 96-102 October 2013
6. C. S. Mohanty, P. S. Khuntia, and D. Mitra, "Design of a T Factor Based RBFNC for a Flight Control System," *Advances in Artificial Intelligence*, vol. 2014, Article ID 897691, 6 pages, 2014. doi:10.1155/2014/897691
7. C.S. Mohanty, P.S.Khuntia, D.Mitra "The Modified Bacterial Foraging Optimized PID Controller for Time delay system", *International Journal of Advanced Intelligent Paradigms*, Inderscience publisher Accepted for publication : in Vol 6, Issue3., 2014
8. Rakesh Ranjan, Debjani Mitra "Performance of HMM based Burst Error Modeling for CDMA and OFDM Transmissions" *Journal of Wireless Networking and Communications* 2013, 3(5): 63-73 DOI: 10.5923/j.jwnc.20130305.01
9. Rakesh Ranjan, Dipen Bepari, Debjani Mitra "Genetic Algorithm Based Finite State Markov Channel Modeling", *International Journal of Wireless Communications and Mobile Computing* Vol. 1, No. 4, pp. 96-102 October 2013
10. P S Khuntia, Debjani Mitra, "Intelligent Reference Learning Techniques for Pitch Control of an Aircraft", *International Journal of Simulation : Systems, Science and Technology*, Vol 11, No. 4.; ISSN:1473-804x online, 1473-8031 print, Sept 2010
11. P S Khuntia, Debjani Mitra "Fuzzy Model Reference Learning Controller for Pitch Control System of an Aircraft", *Georgian Electronic Scientific Journal: Computer Science and Telecommunications*, 2009, No.3 (20), pp-36-46.
12. P S Khuntia, Debjani Mitra "Radial Basic Function Neural Controller for Pitch Control of an Aircraft", *Georgian Electronic Scientific Journal: Computer Science and Telecommunications*, 2009, No.2 (19), pp-36-46.
13. P. S. Khuntia, Debjani Mitra, "Fast Acting Robust Controller For Pitch Control System of Aircraft", *The Annals of "Dunarea De Jos" University Of Galati, Fascicle III*, ISSN 1221- 454X., Electrotechnics, Electronics, Automatic Control, Informatics, ol.31, No.1, pp-67-75, 2008
14. P S Khuntia, Debjani Mitra, "Optimization of PID Controller using Genetic and Steepest Descent Algorithm for speed control of a D. C. Motor", *International Journal of Factory Automation, Robotics and Soft Computing*, International Society of Advanced Research, ISSN 1828-6984, Issue-4, October 2008, pp.20-25.