Dr R. Rani Hemamalini, **Professor,** St.Peters Institute of Higher Education and Research

1. Partheeban P., Prasad Raju H., Rani Hemamalini R., Shanthini B. (2020) Real-Time Vehicular Air Quality Monitoring Using Sensing Technology for Chennai. In: Mathew T., Joshi G., Velaga N., Arkatkar S. (eds) Transportation Research. Lecture Notes in Civil Engineering, vol 45. Springer, Singapore. https://doi.org/10.1007/978-981-32-9042-6_2

2. K. Anbumani, R. Rani Hemamalini,','Optimal state feedback controller for three tank cylindrical interacting system using Grey Wolf Algorithm, Microprocessors and Microsystems, Volume 79,2020,103269,ISSN 0141-9331,https://doi.org/10.1016/j.micpro.2020.103269.

3. K. Sudha & R. Rani Hemamalini (2020) 'Nonlinear process control of anaerobic sludge digester, Journal of Statistics and Management Systems, 23:1, 103-112, DOI: 10.1080/09720510.2020.1714152

4. Anbumani K., Rani Hemamalini R. (2020) Three-Interacting Tank Controlled with Decentralized PI Controller Tuned Using Grey Wolf Optimization. In: Bindhu V., Chen J., Tavares J. (eds) International Conference on Communication, Computing and Electronics Systems. Lecture Notes in Electrical Engineering, vol 637. Springer, Singapore. https://doi.org/10.1007/978-981-15-2612-1_47

5. N. S. r. pillai, R. R. Hemamalini, K. Kamurunnissabee, M. Jananii and J. Kiruthiga, "PEF Framework for day to day Client Acceptance Testing," *2019 IEEE International Conference on System, Computation, Automation and Networking (ICSCAN)*, Pondicherry, India, 2019, pp. 1-6, doi: 10.1109/ICSCAN.2019.8878854.

6. N. S. R. Pillai, R. R. Hemamalini, V. Padmavathy and N. S., "Framework for Multiple User Acceptance Testing to Avoid Chaos," *2019 IEEE International Conference on System, Computation, Automation and Networking (ICSCAN)*, Pondicherry, India, 2019, pp. 1-6, doi: 10.1109/ICSCAN.2019.8878803.

7. Prince, P.Grace & Hemamalini, Rani & Umanath, Anitha & Premalatha, J. & Sudheera, K.. (2017). Detection of seizure using EEG Signals by Supervised Learning Algorithms. Research Journal of Pharmacy and Technology. 10. 3443-3448. 10.5958/0974-360X.2017.00613.8.

8. KP Indira[1*], R Rani Hemamalini[2], NM Nandhitha[3,"] Performance evaluation of DWT, SWT and NSCT for fusion of PET and CT Images using different fusion rules. Biomedical Research (2016) Volume 27, Issue 1

9. Prince, P.Grace & Hemamalini, R. & Kumar, S.. (2016). Epileptic seizure detection using EEG signals by means of stationary wavelet transforms. 9. 291-296.

10. Prince, P.Grace & Hemamalini, R. & Kumar, S.. (2015). Seizure detection using wavelet packet analysis and density estimates of EEG signals using a novel wavelet. Research Journal of Pharmaceutical, Biological and Chemical Sciences. 6. 1930-1934.

11. K. P. Indira and R. Rani Hemamalini, "Impact of co-efficient selection rules on the performance of DWT based fusion on medical images," *2015 International Conference on Robotics, Automation, Control and Embedded Systems (RACE)*, Chennai, 2015, pp. 1-8, doi: 10.1109/RACE.2015.7097299.

12. Sivaji, Asha & Hemamalini, R. (2015). Synthesis of Adder Circuit Using Cartesian Genetic Programming. 23. 1181-1186. 10.5829/idosi.mejsr.2015.23.06.22137.

13. Indira, K.P. & Hemamalini, R.. (2015). Evaluation of choose max and contrast based fusion rule using DWT for PET, CT images. Indian Journal of Science and Technology. 8. 10.17485/ijst/2015/v8i16/74556.