

## Papers Published in Journals

1. M. Dayanidhy and V. Jawahar Senthil Kumar, "Investigation on Multilink Multihub Wireless Relay Network with Cooperative DF Protocol", *Tierärztliche Praxis*, Vol. 40, pp. 1554-1562 (2020).
2. Palani Anandhi, Veerabadran JS Kumar, Santhanam Harikrishnan, "Preparation and Improved Capacitive Behavior of NiO/TiO<sub>2</sub> Nanocomposites as Electrode Material for Supercapacitor", *Current Nanoscience*, published by Bentham Science Publishers. Vol. 16, Issue 1, pp. 79-85 (2020).
3. M. Dayanidhy, Dr. V. Jawahar Senthil Kumar, "SEP Analysis of DF Multi-Relay Cooperative Network with M-Ary QAM", *Journal of Green Engineering (JGE)*, published by Alpha Publishers. Vol. 9, Issue 1, pp. 76-91 (2019).
4. P. Anandhi, V. Jawahar Senthil Kumar, S. Harikrishnan, "Improved electrochemical behavior of metal oxides-based nanocomposites for supercapacitor", *Functional Materials Letters*, published by World Scientific Publishing Company. Vol. 12, Issue 5, pp. 1950064 (2019).
5. P. Anandhi, V. Jawahar Senthil Kumar, S. Harikrishnan, "Preparation and enhanced capacitive behavior of Ni-ZnO nanocomposite as electrode for supercapacitor", *Materials Today: Proceedings*, published by Elsevier. Vol. 9, Issue 2, pp. 361-370 (2019).
6. N. Magadevi, V. Jawahar Senthil Kumar, "Energy efficient, obstacle avoidance path planning trajectory for localization in wireless sensor network", *Cluster Computing*, published by Springer US. pp. 1-7 (2019).
7. N. Magadevi, V. Jawahar Senthil Kumar, A. Suresh, "Maximizing the Network Life Time of Wireless Sensor Networks Using a Mobile Charger", *Wireless Personal Communications*, published by Springer US. Vol. 102, Issue 2, pp. 1029-1039 (2018).
8. P. Rajasekaran, V. Jawahar Senthilkumar, "Comparison of Various Strategies in DTFC Based Multilevel NPC Inverter Fed Induction Drive for Torque Ripple Reduction", *Transactions on Electrical and Electronic Materials*, published by The Korean Institute of Electrical and Electronic Material Engineers (. Vol. 19, Issue 4, pp. 290-303 (2018).
9. R. Tamilchelvan, V. Jawahar Senthilkumar, "Design and optimization of wideband microwave amplifier using nonlinear technique", *Wireless Personal Communications*, published by Springer US. Vol. 99, Issue 4, pp. 1589-1604 (2018).
10. P. Sridevi Ponmalar, V. Jawahar Senthil Kumar and R. Harikrishnan, "Hybrid firefly variants algorithm for localization optimization in WSN", *International Journal of Computational Intelligence Systems*, published by Atlantis Press. Vol. 10, Issue 1, pp. 1263 - 1271 (2017).
11. M. Dayanidhy and V. Jawahar Senthil Kumar, "Performance investigation of multi-relay cooperative diversity networks", *Computers & Electrical Engineering*, published by Elsevier. Vol. 60, Issue 2, pp. 151-160 (2017).
12. P. Rajasekaran and V. Jawahar Senthilkumar, "Control Advancement on Direct Torque Control of Induction Motor Using Adaptive Neuro-Fuzzy Inference System", *International Journal of Control Theory and Applications*, Vol. 10, Issue 34, pp. 15-30 (2017).
13. V. Jawahar Senthilkumar, "Multicast Routing Protocol using Virtual Symmetry Structure for Mobile Ad-Hoc Networks", *Asian Journal of Research in Social Sciences and Humanities*, published by Asian Research Consortium. Vol. 6, Issue 8, pp. 908-923 (2016).
14. T. Anuradha, V. Senthil Kumar, P. Senthil Kumar, "A Comparison of Existing MPPT Techniques for a PV System with Interleaved Converter", *Australian Journal of Basic and Applied Sciences*, Vol. 10, Issue 5, pp. 69-75 (2016).

15. D Rajeswari, V Jawahar Senthil Kumar, "Design and Implementation of Non-Dominated Sorting Genetic Algorithm Scheduler Using Mapreduce Model", Asian Journal of Information Technology, Vol. 15, Issue 15, pp. 2584-2593 (2016).
16. Thangavelu Sasikala, Veerasamy Jawahar Senthil Kumar, "Cross Layered MAC Design for RF Energy Harvesting Sensor Network", Circuits and Systems, published by Scientific Research Publishing. Vol. 7, Issue 9, pp. 2676-2688 (2016).
17. N Magadevi, V Senthil Kumar, "Efficient Distributed Localization Algorithm for Wireless Sensor Networks", Australian Journal of Basic and Applied Sciences, Vol. 10, Issue 1, pp. 730-734 (2016).
18. P Rajasekaran, V Jawahar Senthilkumar, "Comparative Analysis of Two Level VSI and Three Level Neutral Point Clamped Inverter for Torque Ripple Reduction in Induction Drive", Indian Journal of Science and Technology, Vol. 9, Issue 7, pp. 1-7 (2016).
19. T Sasikala, Marcharla Anjaneyulu Bhagyaveni, V Jawahar Senthil Kumar, "Cross layered adaptive rate optimised error control coding for WSN", Wireless networks, published by Springer US. Vol. 22, Issue 6, pp. 2071-2079 (2016).
20. P Rajasekaran, V Jawahar Senthilkumar, "An improved DTFC based five levels-NPC inverter fed induction motor for torque ripple minimization", International Journal of Power Electronics and Drive Systems, published by IAES Institute of Advanced Engineering and Science. Vol. 7, Issue 2, pp. 531 (2016).
21. Devarajan Rajeswari, Veerabadran Jawahar Senthilkumar, "Minimizing time in scheduling of independent tasks using distance-based pareto genetic algorithm based on MapReduce model", Circuits and Systems, published by Scientific Research Publishing. Vol. 7, Issue 6, pp. 735-747 (2016).
22. R Harikrishnan, V Jawahar Senthil Kumar, P Sridevi Ponmalar, "A comparative analysis of intelligent algorithms for localization in wireless sensor networks", Wireless Personal Communications, published by Springer US. Vol. 87, Issue 3, pp. 1057-1069 (2016).
23. T Anuradha, V Senthil Kumar, Sundari Deiva, "Bisection Method Based Modified Perturb and Observe MPPT Algorithm for a PV Generation System with an Interleaved, Isolated DC-DC Converter", Australian Journal of Basic and Applied Sciences, Vol. 10, Issue 5, pp. 76-82 (2016).
24. K.Vasanth, V.Jawahar senthilkumar, "Decision-based neighborhood-referred unsymmetrical trimmed variants filter for the removal of high-density salt-and-pepper noise in images and videos", Signal, Image and Video Processing, published by Springer Londonjournal ISSN : 1863-1703 journal e-ISSN : 1863-1711. Vol. 9, Issue 8, pp. 1833-1841 (2015).
25. R Harikrishnan, V Jawahar Senthil Kumar, "An Integrated Xbee Arduino with Group Search Optimizer Approach for Localization in Wireless Sensor Networks", Indian Journal of Science and Technology, published by Indian Society for Education and Environment ISSN (Print) : 0974-6846 . Vol. 8, Issue 22, pp. 1-5 (2015).
26. R Harikrishnan, V Jawahar Senthil Kumar, P Sridevi Ponmalar, "An Integrated Xbee Arduino and Flower Pollen Algorithm Approach for Localization in Wireless Sensor Networks", published by Springer. Vol. 1, pp. 355-361 (2015).
27. R Harikrishnan, V Jawahar Senthil Kumar, P Sridevi Ponmalar, "Nature inspired flower pollen algorithm for WSN localization problem", ARPN J. Eng. Appl. Sci, Vol. 10, Issue 5, pp. 2122-2125 (2015).
28. R Beulah Jayakumari, V Jawahar Senthilkumar, "Priority based congestion control dynamic clustering protocol in mobile wireless sensor networks", The Scientific World Journal, published by Hindawi Publishing Corporation. pp. 1-11 (2015).

29. D Rajeswari, V Jawahar Senthilkumar, "Multiprocessor Scheduling and Performance Evaluation Using Elitist Non-Dominated Sorting Genetic Algorithm for Independent Task", International Journal on Computational Science & Applications, Vol. 5, pp. 49-59 (2015).

#### **Papers Presented in Programmes**

1. M Dayanidhy, V Jawahar Senthil Kumar, "Performance Evaluation of Multihop Multibranch DF Relaying Cooperative Wireless Network" presented in a International level conference on Big Data Innovation for Sustainable Cognitive Computing, India from 13-Dec-2018 to 15-Dec-2018.
2. P SrideviPonmalar, R Harikrishnan, "Bat-firefly localization algorithm for wireless sensor networks" presented in a International level conference on 2017 IEEE international conference on computational intelligence and computing research (ICCIC), organised by Tamilnadu College of Engineering, Coimbatore, India from 14-Dec-2017 to 16-Dec-2017.
3. M Dayanidhy, V Jawahar Senthil Kumar, "SEP of the min-max selection combining over Rayleigh fading channel" presented in a International level conference on 2016 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), organised by SSN Institutions, Chennai, India from 23-Mar-2016 to 25-Mar-2016.
4. R Harikrishnan, V Jawahar Senthil Kumar, P Sridevi Ponmalar, "Firefly algorithm approach for localization in wireless sensor networks" presented in a International level conference on 3rd International Conference on Advanced Computing, Networking and Informatics, India from 23-Jun-2015 to 25-Jun-2015.