

**Dr. S. KANTHALAKSHMI**

**LIST OF PUBLICATIONS**

1. Deepthi Pilakkat , S.Kanthalakshmi ,” Single phase PV system operating under Partially Shaded Conditions with ABC-PO as MPPT algorithm for grid connected applications”, Energy Reports, Vol. 6, pp. 1910-1921, 2020
2. M Raghappriya, S Kanthalakshmi,”Non-linear Model-based Stochastic Fault Diagnosis of 2 DoF Helicopter”, Journal of Control Engineering and Applied Informatics, Vol. 6, Issue 3, pp. 62-73, 2020
3. S. Navaneethan Deepthi Pilakkat, S. Kanthalakshmi,” A Comprehensive Review of Swarm Optimization Algorithms for MPPT Control of PV Systems under Partially Shaded Conditions”, Electronics, Vol. 24, Issue 1, pp. 5-16 , 2020
4. Anitha.T Nagarajapandian.M, Sharmila, S.Kanthalakshmi,” Reconfigurable Controller Design for Controller used in Multivariable Methods”, Journal of Advanced Research in Dynamical and Control Systems, Vol.11 , Issue 11, pp. 612-620, 2020
5. Kanthalakshmi.S Hamsavarthini.Y,” Technologies In Battery Management System-A Review”, International Journal Of Scientific & Technology Research, Vol.9 , Issue 1, pp. 1324-1331, 2020
6. A. S. Wincy Pon Annal S. Kanthalakshmi,” Predictive Sliding Mode Controller for Continuous Bio-Fermenter Systems”, Control Engineering and Applied Informatics, Vol.22, Issue 2, pp. 33-42, 2020
7. M. Nagarajapandian, S. Kanthalakshmi, T. Anitha and P. A. M. Devan, "Linear Matrix Inequality Based Controller used in Multivariable Systems," 2019 IEEE Student Conference on Research and Development (SCORED), Bandar Seri Iskandar, Malaysia, pp. 134-139,2019
8. Navaneethan Soundirarajan, Kanthalakshmi Srinivasan,” Performance Evaluation of Ant Lion Optimizer–Based PID Controller for Speed Control of PMSM”, Journal of Testing and Evaluation, Vol.49, Issue 22, 2019
9. Deepthi Pilakkat, S Kanthalakshmi,” An improved P&O algorithm integrated with artificial bee colony for photovoltaic systems under partial shading conditions”, Solar Energy, Vol.178, pp. 37-47, 2019
10. S.Kanthalakshmi G.Mahalakshmi,” Analysis of converters for torque control in switched reluctance motor drive system—a comparative study”, Caribbean Journal of Science, Vol.53, Issue 2, pp. 284-298, 2019
11. Wincy Pon Annal.A.S and Kanthalakshmi.S,” Experimental Validation of Model Predictive Control for Nonlinear System with Delay”, Journal of Electrical Engineering, Vol.19, Issue 3, pp. 197-203, 2019
12. Boopathi K Subhashree R, Lavanya M.C, Kanthalakshmi S,” Comparative Analysis of Switching Characteristics of Non-Isolated converters using MOSFET and IGBT”, International Research Journal of Engineering and Technology (IRJET), Vol.6, Issue 1, pp. 425-430, 2019
13. Deepthi Pilakkat, S Kanthalakshmi,” Artificial Bee Colony Integrated P&O Algorithm for Single Phase Grid Connected Photovoltaic Application”, International Journal of Instrumentation and Measurement, Vol.4, pp. 45-52, 2019

14. Srinivasan Kanthalakshmi, Wincy Pon Annal," Real time implementation of adaptive sliding mode controller for a nonlinear system", Stud. Informat. Control, Vol.27, Issue 4, pp. 395-402, 2018
15. Jayaprasanth Devakumar, Kanthalakshmi Srinivasan," Fault Detection and Isolation in Stochastic Nonlinear Systems using Unscented Particle Filter based Likelihood Ratio Approach", Journal of Control Engineering and Applied Informatics, Vol.20, Issue 1, pp. 75-85, 2018
16. D. Pilakkat and S. Kanthalakshmi, "Artificial Bee Colony Algorithm for Peak Power Point Tracking of a Photovoltaic System under Partial Shading Condition," 2018 International Conference on Current Trends towards Converging Technologies (ICCTCT), Coimbatore, pp. 1-7, 2018
17. T Anitha M Nagarajapandian, S Kanthalakshmi," Design and implementation of controllers for quadruple tank system", Journal of Control & Instrumentation, Vol.9, Issue 11, pp. 25-32, 2018
18. Deepthi Pilakkat and S. Kanthalakshmi , " Study of the effect of semiconductors in photovoltaic systems under abrupt change in irradiance and temperature conditions", National Journal of Technology, Vol.14, Issue 3, pp. 71-80, 2018
19. Deepthi Pilakkat, S Kanthalakshmi, "Drift free variable step size perturb and observe MPPT algorithm for photovoltaic systems under rapidly increasing insolation", Electronics Vol.22, Issue 1, pp. 19-26, 2018
20. S.Kanthalakshmi M.Ashok Kumar, "LQG/LTR Control Design for Stabilising an Inverted Pendulum", Vol.13, Issue 3, pp. 69-76, 2017
21. V.Subbian and S.Kanthalakshmi J.Kathika, "High Performance Supervisor Controller with Multimode Operation of a Hybrid System for Multi Grid Applications", Middle-East Journal of Scientific Research, Vol.25, Issue 2, pp. 296-303, 2017
22. Kanthalakshmi S ,A.S.Wincy Pon Annal, "An adaptive PID control algorithm for nonlinear process with uncertain dynamics", International Journal of Automation and Control, Vol.11, Issue 3, pp.262-274, 2017
23. Kanthalakshmi Srinivasan . Karthick Shanmugam, "HPSO based LQR applied to servo control of SIMO system", Journal of Electrical Engineering, Vol.17, Issue 2, pp. 1-6, 2017
24. Manochitra Mohanraj, Karthick Shanmugam, Kanthalakshmi Srinivasan, "STS-PSO based LQR Applied to Servo Control of SIMO System", Journal of Electrical Engineering, Vol.17, Issue 1, pp. 163-166, 2017
25. MP Anbarasi, S Kanthalakshmi, V Easwaran, "Economic Study of Solar Photovoltaics", Asian Journal of Research in Social Sciences and Humanities, Vol.7, Issue 4, pp. 420-430, 2017
26. Jayaprasanth Devakumar, Kanthalakshmi Srinivasan, "Improved state estimation for stochastic nonlinear chemical reactor using particle filter based on unscented transformation", Journal of Control Engineering and Applied Informatics. Vol.18, Issue 4, pp. 36-44, 2016
27. Anbarasi Muthuswamy Palaniswamy, Kanthalakshmi Srinivasan, "Takagi-Sugeno fuzzy approach for power optimization in standalone photovoltaic systems", Solar Energy, Vol.139, pp. 213-220, 2016

28. S.Kanthalakshmi Surya Soman, "Design of Adaptive Integral Sliding Mode Controller for 2DoF Helicopter model", National Journal of Technology Vol.12, Issue 3, pp.43-49, 2016
29. D.Jayaprasanth and S. Kanthalakshmi, "Performance Evaluation of Sampling Importance Resampling Particle Filter for State Estimation of Chemical Process", National Journal of Technology, Vol.12, Issue 2, pp. 69-78, 2016
30. S.Kanthalakshmi D.Jayaprasanth, "Nonlinear state estimation of Van der Pol oscillator using particle filter with unscented Kalman filter as proposal", Journal of Electrical Engineering, Vol.16, Issue 4, pp.1-14, 2016
31. V.Subbian and S.Kanthalakshmi J.Kathika, "Development Of A Supervisory Controller For Energy Management And Smooth Operation Of Hybrid Energy Generation System With Grid Interface", Advances in Natural and Applied Sciences, Vol.10, Issue 17, pp. 300-308, 2016
32. M.P. Anbarasi and S. Kanthalakshmi, "Linear quadratic optimal control of solar photovoltaic system: An experimental validation", Journal of Renewable And Sustainable Energy, Vol.8, pp. 1-14, 2016
33. M.P. Anbarasi and S. Kanthalakshmi, "Peak Power Tracking Using Revised Variable Step Size Incremental Conductance Method", Asian Journal of Information Technology, Vol.15, pp. 1175-1182, 2016
34. V.Subbiah and S.Kanthalakshmi J.Karthika, "Robust Distributed Generation and Storage Unit based on Co-operative Control for a DC Microgrid", Australian Journal of Basic and Applied Sciences, Vol.9, Issue 33, pp. 56-63, 2016
35. M.Raghapriya and R.Latha S.Kanthalakshmi, "Fault Tolerant Control with Acceptable Performance Degradation", ARPN Journal of Engineering and Applied Sciences, Vol.10, Issue 2, pp. 908-914, 2016