Dr.P.Sivakumar

Associate Prof/EEE

Rajalakshmi Engineering College, Chennai

sivakumar.p@rajalakshmi.edu.in

9443734105

Technical papers (journals)

1. G. Soorya Priya**, LP. Sivakumar** "Analysis of antlion optimizer-based ABT for automatic generation control of an interconnected power system" was published in Springer Berlin Heidelberg pp. 1-15, May 2019 "**(AUT-A1)**
2. **LP. Sivakumar,** M. Arutchelvi, "Enhanced Controller Topology for Photovoltaic Sourced Grid Connected Inverter Under Unbalanced Nonlinear Loading" was published in Journal of Power Electronics Vol. 14, No. 2, pp. 369-382, March 2014 (http://dx.doi.org/10.6113/JPE.2014.14.2.000)**(AUT-A1)**
3. **LP. Sivakumar**, M. Arutchelvi, "Control of Grid Converters for PV Array Excited Wind-Driven Induction Generators with Unbalanced and Nonlinear Loads" was publish in the International Journal of Electrical Power and Energy Systems Vol. 59, pp.188–203, Jul 2014 (10.1016/j.ijepes.2014.02.019) ELSEVIER **(AUT-A1)**
4. **LP. Sivakumar**, M. Arutchelvi, "Analysis and Enhancement of PV Efficiency with Incremental Conductance MPPT Technique under Non-Linear Loading Conditions" published in the Renewable Energy. Volume 81, July 2015, Pages 543-550 ELSEVIER **(AUT-A1)**
5. **LP. Sivakumar**, M. Arutchelvi, "Maximum power extractions in a single stage PV sourced grid connected inverter during low irradiations and nonlinear loads" published in the Renewable Energy. Volume 107, July 2017, Pages 262-270ELSEVIER **(AUT-A1)**
6. **LP. Sivakumar**, M. Arutchelvi, "Modified composite power control strategy for grid connected wind-PV systems with unbalanced nonlinear current" published in the International Transactions on Electrical Energy Systems E2587, 26 April 2018 WILEY **(AUT-A1)**
7. LP**. Sivakumar**, "Enhanced Control Scheme for Grid Integrated PV Inverter with Wind-driven Induction Generator Feeding Unbalanced Nonlinear Load" Australian Journal of Electrical & Electronics Engineering.
8. P.Arokiya Prasad, LP**. Sivakumar**, "Implementation of Digital Harmonic Controller in Smart Grid" International Journal of Pure and Applied Mathematics. Volume 119 No. 16,Jul-2018
9. P.Rathidevi, LP**. Sivakumar**, A.Rajapandiyan, "Improved Power Sharing of Wind-Diesel Penetrated Micro Grid" International Journal of Pure and Applied Mathematics. Volume 119 No. 16,Jul-2018
10. K Ranjitha, LP**. Sivakumar**, "Review on Load Frequency Control Techniques in Distributed Generation Power Systems" International Journal of Pure and Applied Mathematics. Volume 118 No. 24,Jul-2018
11. Ron Carter, S.B., **Sivakumar, L.P.**, Premkumar, K., Selvaraj, A., Priya, M.V."TZ-Source inverter for the speed control of three phase induction motor" International Journal of Scientific and Technology Research, 2020, 9(2), pp. 362-365

12. Ranjitha, K., **Sivakumar, P.**, Monica, M."Smart irrigation using CARRIOTS IoT platform and IFFT algorithm for agricultural field"International Journal of Emerging Trends in Engineering Research, 2020, 8(5), pp. 1834-1838
13. **Sivakumar, L.P.**, Ron Carter, S.B., Premkumar, K., Thamizhselvan, T., Vishnu Priya, M."Iot sourced real time pv, wind and fuel cell models for micro and nano grids" International Journal of Scientific and Technology Research, 2019, 8(12), pp. 988-993
14. Premkumar, K., Thamizhselvan, T., Vishnu Priya, M., Ron Carter, S.B., **Sivakumar, L.P.**"Fuzzy anti-windup pid controlled induction motor"International Journal of Engineering and Advanced Technology, 2019, 9(1), pp. 184-189
15. **LP. Sivakumar**, S.Thirukkovai, K.Yogeshraj, A. Abdullah, "Reactive power Regulation of Wind-Diesel Hybrid System with Modified AVR" was published in **Procedia Engineering,** Vol. 38, pp.3152–3165, September 2012 (http://dx.doi.org/ 10.10 16/j.proeng.2012.06.366) ELSEVIER
16. **LP. Sivakumar**,M.Jeevitha, " Nonlinear unbalanced load compensation for PV sourced grid connected inverter" Advanced Materials Research, Vol. 768, pp. 308-312, September 2013. (doi:10.4028/ www. scientific.net/ AMR.768.308)
17. **LP. Sivakumar**, C. Birindha, "Analysis and Stability Enhancement of DG Sourced Power System with Modified AVR and PSS" Advanced Materials Research, Vol. 768, pp. 313-316, September 2013 (doi:10.4028/ www. scientific.net /AMR. 768.313)
18. P. Suganya, L**P. Sivakumar**, "Modified Direct Power Control of PV Sourced Inverter" Journal of Applied Sciences, Vol. 14, No14. pp. 1536-1542, Year 2014.
19. **LP. Sivakumar**, A Rajapandiyan "Enhanced OPF for DG Penetrated Power System Network under Variable Load Conditions" Advanced Materials Research Vols. 984-985 pp. 1301-1305, 2014.
20. I. Andrew Xavier Raj, S.C. Prasanna, L**P. Sivakumar**, "Performance Analysis and Control of Double Fed Induction Generator Using Modified Direct Power Control Scheme during Nonlinear Loading" Applied Mechanics and Materials, Vol. 626, pp. 172-176, August 2014.
21. **LP. Sivakumar**, D. Poornima "Uncertainty Modeled Power Flow Analysis for DG Sourced Power System" Advanced Materials Research, Vol. 768, pp. 298-300, September 2013 (doi:10.4028/ www. scientific.net /AMR.768.298)
22. **LP. Sivakumar**, M. Arutchelvi, "Improved control strategy for grid connected scheme based on PV array and wind-driven Induction generators" was accepted to publish in the Indian Journal of Science and Technology.
23. M.Hidayathullah, **LP. Sivakumar,** G.Sundararajan, "Enhanced Excitation Control for DG Penetrated Power System with Wind Sourced Control" International Journal of Applied Engineering Research Volume 10, Number 9 (2015).