

List of Publications

1. Vinod S., Balaji M , " Variable speed PMSG design and implementation for wind driven welding power source" Circuit World, Vol. 46 No. 3, pp. 161-167,2020.
2. Vinod S., Balaji M , " Design and implementation of parallel multi stage DC –DC converter for welding application",Journal of Electrical Engineering, Vol. 20 No. 4, pp. 278-284,2020.
3. S. Devi Vidhya and M. Balaji " Hybrid fuzzy PI controlled multi-input DC/DC converter for electric vehicle application “in Automatika, Journal for Control, Measurement, Electronics, Computing and Communications, Vol. 61, no. 1, pp.79–91,2019.
4. S. Devi Vidhya and M. Balaji " Failure-mode analysis of modular multilevel capacitor-clamped converter for electric vehicle application" IET Power Electronics, , Vol. 12 no. 13, pp. 3411-3421,2019.
5. S. Devi Vidhya and M. Balaji " Modelling, design and control of a light electric vehicle with hybrid energy storage system for Indian driving cycle" Measurement and Control 2019, Vol. 52(9-10) 1420–1433
6. Saranya, Balaji.M," Electromagnetic and Vibration Analysis of E-core Switched Reluctance Motor with Permanent Magnets and Auxiliary Windings" Journal of Power Electronics, Vol. 19, No. 2, pp. 540-548, 2019. (Thomson Reuters indexed), (Impact factor – 0.901).
7. Ramya.A, M. Balaji and V.Kamaraj" Adaptive MF tuned fuzzy logic speed controller for BLDC motor drive using ANN and PSO technique" Journal of Engineering (IET),Vol.2019,No17,pp.3947-3950,2019.
8. S.Devividhya and M.Balaji published a paper titled "An Effective Controller Design for Switched Capacitor Luo Converter used in Hybrid Electric Vehicle Application" in Journal of Electrical Engineering, Vol.18, No.4, pp.468-478 , dec 2018.
9. S. Prabhu , M.Balaji, " Analysis and Implementation of Two Phase Flux Reversal Free Doubly Salient Machine" in Journal of Magnetism,Vol. 23,No.3,pp. 350–359, aug 2018. (Thomson Reuters indexed), (Impact factor – 0.628).

10. Saranya, Venkatasubramanian, Balaji.M, "Effect of Modified Pole Shapes on the Performance of Hybrid Switched Reluctance Motor" Journal of Electrical Engineering, Vol.18, No.3, pp.65-70 , sep2018.
11. Saravanan P, Balaji M, Anbuselvi.M and Arumugam R," Investigations on embedded processor architectures for the speed control of switched reluctance motor drive" Journal of Electrical Engineering, Vol.18, No.1, pp.450-456 , march2018.
12. S. Gowtham, M.Balaji, S. Harish, M.S. Abraham Pinto, G. Jagadeesh published a paper titled " Fault Tolerant Single Switch PWM DC-DC Converters for Battery charging Applications" in Energy Procedia,Vol. 117,pp. 753–760, 2017.
13. Ramya , M. Balaji " A new approach for minimizing torque ripple in a BLDC motor drive with a front end IDO dc-dc converter" Turkish Journal of Electrical Engineering & Computer Sciences,Vol.25,pp.2910-2921,2017. (Thomson Reuters indexed), (Impact factor – 0.578).
14. Saravanan P, Balaji M, Balaji Nagaraj K and Arumugam R," Analysis of Neural Network Approaches for Nonlinear Modeling of Switched Reluctance Motor Drive" Journal of Electrical Engineering and Technology, Vol.12, No.4, pp.1548-1555 , 2017. (Thomson Reuters indexed), (Impact factor – 0.679).
15. Nagarajan.V.S, Balaji Mahadevan, Kamaraj, V. Arumugam, R. Ganesh Nagarajan, Srivignesh S., Suudharshana M., ‘Design optimization of ferrite assisted synchronous reluctance motor using multi-objective differential evolution algorithm’, COMPEL - The international journal for computation and mathematics in electrical and electronic engineering,Vol.36,No.1, 2017, pp. 219–239. doi: 10.1108/compel-06-2016-0253. (Thomson Reuters indexed), (Impact factor – 0.487).
16. V.S.Nagarajan, V.Kamaraj, M.Balaji, , R. Arumugam, N. Ganesh, R. Rahul, and M. Lohit, ‘Effect of Geometrical Parameters on Optimal Design of Synchronous Reluctance Motor’, Journal of Magnetism, Vol.21 No.4, 2016, 544-553. (Thomson Reuters indexed), (Impact factor – 0.713).
17. Ramya , Imthiaz Ahamed, M. Balaji, "Hybrid Self Tuned Fuzzy PID controller for speed control of Brushless DC Motor ", Automatika – Journal for Control, Measurement,Electronics, Computing and Communications,Vol.57,No.3,2016,pp.672-679. (Thomson Reuters indexed), (Impact factor – 0.380).