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Research Areas

Special electrical machines and controllers

DC-DC converters for solar applications

Power Quality Issues

Publications

Journal papers published (past 5 years)

1. Shree Kumar H, **Jagadeeshwaran A**, Shantha kumar M, Vijay Shankar S, Periyasamy VM, “ Intelligent three lane traffic light System using Raspberry Pi” International Journal of Advanced Science and Technology, Vol 29, No.7 pp 13825-13821, 2020.
2. Angeline Priyanka, **Jagadeeshwaran A**, Vijay Shankar S, Periyasamy VM “Investigation of Multi input Multi output Bi directional Dc-DC Interleaved Boost Converter with three different Energy Sources and three outputs” TEST Engineering & Management ISSN : 0193-4120, Vol. 83, 10582-10586, 2020.
3. Purna Bhadur Pun, **Ardhanari Jagadeeshwaran**, Subramanian Vijayshankar, Periyasamy VM, Selvakumar P “Design and Configuration Optimization of 3kW Switched Reluctance Motor for Commercial Electric Vehicle Application” IJIREEICE, Volume 6, Issue 11, Page 52-60, 2018.
4. Nivetha S, Vijay Shankar S, Jagadeeshwaran A, Aravind CV, “ Regenerative Braking System for Hybrid Electric Vehicle Driven by DC motor” IJAREEIE ISSN : 2278-8875, Vol7, Issue 2, Page 447-452 2018, DOI:10.15662/IJAREEIE.2018.0702010.
5. **Ardhanari Jagadeeshwaran**, Subramanian Vijayshankar, N. Kannan, Aravind CV, “ Limited Angle BLDC for Scan Mirror Application in Space Satellite System” **IEEE Aerospace and Electronics Systems** Magazine DOI No. 10.1109/ MAES.2016.160015, Page 24-32 June 2016.
6. Aravind C.V, Maitha Ishaq, Yaquod Al-Sawafi, **Arthanari Jagadeeshwaran** “Different Magnetic Orientation for Torque Angle Control in Scan Mirror Systems for Satellite

Applications” International Journal of Control Theory and Applications, Vol.9 Issue no. 31 Page 139-145, 2016

7. ManjuPriya S, **Jagadeeshwaran A**, Aravind CV, “DESIGN AND IMPLEMENTATION OF SEPIC CONVERTER BASED PV CHARGING SYSTEM , INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH, 10, 9, Page 7,549 - 7,552, 01-Jan-2015.
8. Govindaraju K, Selvakumar P, Vijayshankar S, **Jagadeeshwaran A**, “CLOSED LOOP SPEED CONTROL OF BLDC MOTOR USING LABVIEW AND ARDUINO , INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH, 10, 10, Page 9,580 - 9,584, 01-Aug-2015.
9. Aravind CV, **Arthanari Jagadeeshwaran**, Lan Pin Wen, Reynold Hariyadi, “ Comparative Evaluation of a novel Double Rotor Flux Assisted Machine with IPM machine using Motor constant Square Density” International Journal of Applied Engineering Research, ISSN 0973-4562, Vol 10, Number 17, Page 12813-12818, Feb 2015.
10. Aravind CV, **Jagadeeshwaran A**, Ramesh GP “ Design Analysis and Development of Reluctance Machine for Low power Applicatins” International Journal of Scientific & Engineering Research, Vol.5, Issue 4, April 2014.
11. Subang Jaya, Aravind CV, Kamalinni, Tay SC, **Jagadeeshwaran A** “DESIGN ANALYSIS OF MAGLEV-VAWT WITH MODIFIED MAGNETIC CIRCUIT GENERATOR <http://dx.doi.org/10.1109/icees.2014.6924146>, 1, 1, Page 82 - 86, 01-Jan-2014.
12. Janardhanan B, Selvakumar P, Vijayshankar S, **Jagadeeshwaran A**“DESIGN AND ANALYSIS OF MULTI PHASE PERMANENT MAGNET BLDC GENERATOR FOR DOMESTIC WIND TURBINE APPLICATIONS , <http://dx.doi.org/10.1109/icees.2014.6924183>, Page 290 - 294, 01-Jan-2014.
13. **A. Jagadeeshwaran**, S Padma, S Vijay Shankar, VM Periyasamy, P selvakumar “ Development of Limited Angle Brushless Torque motor Control drive for Scan mirror mechanism”, International Journal of Engineering and Technology, Vol.5, No.5, Page 3,907-3,913, 01-Jul-2014.

International Conference Publications (past 5 years)

1. N.Suriya, S.Vijay Shankar, **A. Jagadeeshwaran**, V.M.Periyasamy “Analysis of Cryptographic Algorithms against Vulnerabilities in EV Charging Infrastructure to Improve Security System” International conference on Power Engineering POWERCOIN’20 Sona College of Technology, Mar 12-13, 2020.

2. H. Shree Kumar, **A Jagadeeshwaran** "Intelligent three lane Traffic Light System using Raspberry Pi" International conference on Power Engineering POWERCOIN'20 Sona College of Technology, Mar 12-13, 2020.
3. A.Angelin Priyanka, **A. Jagadeeshwaran**, S.Vijay Shankar "Investigation of Multi Input Multi Output Bidirectional DC-DC Interleaved Boost Converter with Three Different Energy Sources and Three Outputs" International conference on Power Engineering POWERCOIN'20 Sona College of Technology, Mar 12-13, 2020.
4. V. M Periyasamy, R. Shivakumar, **A.Jagadeeshwaran**, S. Vijay shankar "Modelling and Simulation of Hybrid BLDC Wind Generator and Solar Powered Boost Converter Based BLDC Motor Drive for Irrigation System" International conference on Power Engineering POWERCOIN'20 Sona College of Technology, Mar 12-13, 2020.
5. K.Karthikeyan, Ardhanari Jagadeeshwaran, B.Sangeetha Design and Analysis of Synchronous Reference Frame Theory Based Control Algorithm for STATCOM International conference on Power Engineering POWERCOIN'20 Sona College of Technology, Mar 12-13, 2020.
6. ManjuPriya S, **Jagadeeshwaran A**, Aravind CV, "DESIGN AND IMPLEMENTATION OF SEPIC CONVERTER BASED PV CHARGING SYSTEM" International conference of Engineering, Technology and Science ICETS15, Muthayammal College of Engineering, 6-Mar-2015.
7. Karthick S, Vijay Shankar S, P. Selvakumar, **Jagadeeshwaran A** " Development of High voltage Gain Boost Converter Based on Coupled Inductor Technique for Solar Submersible pump Application" International Conference on Electrical Communication and Computing ICECC 2014, Pg No. 128-130, 2014.
8. Anand K, Sivakumar R, **Jagadeeshwaran A**, periyasamy VM, " Design and implementation of a novel fault tolerant control scheme for a brushless DC motor drive" International Conference on Electrical communication and computing ICECC – 2014.
9. B Janaradhanan, P Selvakumar, S Vijay Shankar, **Jagadeeshwaran A** " Design And Analysis Of Multi Phase Permanent Magnet Bldc Generator For Domestic Wind Turbine Applications" 2nd International Conference on Electrical Energy systems, SSN College of Engineering, Chennai 2014.
10. Perumal R, Selvakumar P, Vijay Shankar S, **Jagadeeshwaran A** " A Novel 1KW Hybrid Wind and solar power system for domestic Applications," International conference on Electrical Communication and Computing, Tagore Engineering College , 14 Mar 2014.

11. S Saranya, **A. Jagadeeshwarn**, S Padma “ Sensorless Control of a Brushless DC motor “ International Conference on Electrincal, Communication and Computing, Tagore Engineering Collge 14 Mar 2014.
12. CV Aravind, Jagadeeshwaran A, Kamalinni S.C, Toy and RN Firadaus “ Desing analysis of MAGLEV- VAWT with modified magnetic Circuit Generator “ 2nd International conference on Electrical energy systems, SSN college of Engineering, 7-9-Jan 2014