

**MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**MAR IVANIOS VIDYANAGAR, NALANCHIRA, THIRUVANANTHAPURAM -15**  
**Research Publications**

**Academic Year 2014**

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| 1  | Shahida L R,T M George;"Variable Structure Control of a Buck Converter for the MPPT of a Photovoltaic System"3 <sup>rd</sup> National Conference on Emerging Technologies(NCET 14),August 2014 ,pp 156-161   |
| 2  | Shahida L R, T M George, "Implementation of Sliding Mode Control for a Buck Converter in a Photovoltaic System", International Conference on Advances in Green Energy(ICAGE 2014), December 2014,IEEE Transactions 2014,Page No 245-250  |
| 3  | M K Giridharan, Archana A N, Abhijith A.A, Aida Anna Oomen, Prakash Thomas Francis, Ruby Rajan, Varun S Muralledharan, "Performance assessment of 100 kW Solar Power Plant Installed at Mar Baselios College of Engg & Technology" International Journal of Emerging Technology and Advanced Engg, Volume 4,issue 6, pp 694-699, June 2014 |
| 4  | Aneesh kumar K T, B. Prasannakumari, Elizabeth Varghese "Space Vector PWM based two level Inverter Topology for Wind Energy Conversion Systems", International Journal on Advanced Electrical and Computer Engineering (IJAECE),vol 1,issue 1,pp 28-34,2014  |
| 5  | Feby Angel, Gheever V A, Jaison S M, Jicky Abraham, Keerthana Jayan,Vandana P, B PrasannaKumari,"Automated Cab system", MBCET journal of research, Volume 3 issue  |
| 6  | Aneesh kumar K T, B Prasannakumari, Elizabeth Varghese., "Simulation topology and control methods for Wind energy conversion systems" International Conference on Emerging Trends in Electrical Engineering (ICETREE 2014), August 2014, pp.24-30, Elsevier Publications 2014  |
| 7  | Aneesh kumar K T, B Prasannakumari, Elizabeth Varghese, "Space Vector PWM and Fractional Controller based Wind Energy Conversion Systems" International Conference on Advances in Green Energy(ICAGE 2014), December 2014,IEEE Transactions 2014,Page No 74-81   |
| 8  | Stella Kurian, Nisha G.K, "State of the Art of Switched Reluctance Motor for Torque Ripple Minimization", Proceedings of 7 <sup>th</sup> IRF International Conference, 12 <sup>th</sup> October 2014, Goa, India,ISBN: 978-93-84209-57-5   |
| 9  | Aneesh kumar K T, B Prasannakumari, Elizabeth Varghese., "Simulation topology and control methods for Wind energy conversion systems" International Conference on Emerging Trends in Electrical Engineering (ICETREE 2014), August 2014, pp.24-30, Elsevier Publications 2014  |
| 10 | Aneesh kumar K T, B Prasannakumari, Elizabeth Varghese, "Space Vector PWM and FractionalController based Wind Energy Conversion Systems" International Conference on Advances in Green Energy(ICAGE 2014), December 2014,IEEE Transactions 2014,Page No 74-81  |
| 11 | Tania K S, Elizabeth Varghese "Fractional PI Controller to control the speed of Permanent Magnet Synchronous Motor Drive", International Conference on Electrical Electronics and Computer Engineering(ICEECE-14), July 2014   |
| 12 | Arya R ,Sheenu P "A Five level Inverter with reduced Harmonics" 3 <sup>rd</sup> National Conference on Emerging Technologies (NCET 14),August 2014 ,pp 149-155   |
| 13 | Arya R , Sheenu P," A Five level Inverter with reduced Harmonics" 2 <sup>nd</sup> International Conference on Current Trends in Engineering &Technology, ICCTET ,8th July 2014,pp 328-331  |
| 14 | Ancy A George, F R RejishBabu "Analysis & Simulation of PI and Fuzzy Controlled Multilevel Inverters fed BLDCM with Position Feedback", 2 <sup>nd</sup> International Conference on Current Trends in Engineering & Technology(ICCTET 2014),pp 321-326   |
| 15 | Seemol S.S, Sandhya P, "Synchronverter Based Control for Three phase Grid connected Inverter" ,3 <sup>rd</sup> National Conference on Emerging Technologies, pp 204-209  |
| 16 | Sandhya.P, Lakshmi Priya.L, Lekshmi M.A, Manasa Prasad, Serena Dominic, Silpa U.M ,"Vehicle Accident Alerting and Security System (VAAS)", MBCET journal of research, Volume 3 issue   |
| 17 | Anila Prabha, Soumya A V "Improving the performance of a Wind Energy Conversion System using Z Source Inverter and MPPT Controller" Proceedings of the 3 <sup>rd</sup> National Conference on Emerging Technologies(NCET14), August 2014,pp 241-245  |
| 18 | Anila Prabha, Soumya A V "Direct Drive Axial Type Wind Energy conversion system with Z source Inverter and Modified space vector modulation" 2nd International Conference on Current Trends in Engineering & Technology (ICCTET) ,8th July 2014, pp 366-369  |
| 19 | Sreedevi K J, Sojy Rajan, "An Interleaved Boost Converter with Zero Voltage Transition fed BLDC Motor Drive", 3 <sup>rd</sup> National Conference on Emerging Technologies(NCET-2014),August 2014,pp 215-220   |

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| 20 | Vinay P, Manju Ann Mathew, "Modelling and analysis of MPPT Techniques on a permanent Magnet DC Motor", 15th National Conference on Technological Trends (NCTT2014), August 2014   |
| 21 | Vinay P, Manju Ann Mathew, "Modelling and Analysis of Artificial Intelligence Based MPPT Techniques for PV Applications" International Conference on Advances in Green Energy(ICAGE 2014), December 2014, IEEE Transactions 2014, Page No 56-65   |
| 22 | Renu V, Surasmi N L "Adaptive Compensation for Lower order Harmonics in a Grid connected Single phase PV inverter" 3 <sup>rd</sup> National Conference on Emerging Technologies(NCET 14), August 2014, pp 162-168   |
| 23 | Sreelekshmi T, Shalu George "Comparative Study of Common mode voltage reduction by different PWM Techniques for a Five phase BLDC Motor", 3 <sup>rd</sup> National Conference on Emerging Technologies, August 2014, pp 156-161,  |
| 24 | Sreelekshmi T, Shalu George "A study of Harmonics in Space vector PWM with reduced Common Mode Voltage for Multiphase Drives and Space Vector based Hysteresis Current Controller for Multilevel Inverter" 7 <sup>th</sup> National Conference on Recent Trends in Electronics World(RETREW 14), pp 21-22 March 2014                        |
| 25 | Sreelekshmi.T, Shalu George, "Common Mode Voltage Reduction with Harmonics Study using different PWM Techniques for a Three Phase & Five Phase BLDC motor", International Conference on Advances in Green Energy(ICAGE 2014), December 2014, IEEE Transactions 2014, Page No 216-225  |
| 26 | Aswin R B, J Abdul Jaleel, Sibi Salim "Application of Artificial Intelligence in detection of Skin Cancer from dermoscopic images" International Conference on Emerging Trends in Electrical Engineering(ICETREE-14) pp 225-229   |
| 27 | Aswin R B, J Abdul Jaleel, Sibi Salim "Hybrid Genetic Algorithm – Artificial Neural Network Classifier for Skin Cancer Detection" International Conference on Control, Instrumentation, Communication and Computational Technologies(ICCICCT), July 2014  |
| 28 | Vinaya George, Arya Gowri, "A new DTC based BLDCM driven EV" was published in the Proceedings of the International Conference on Emerging Trends in Electrical Engineering (ICETREE 14), pp 208-212, ELSEVIER Publications.   |
| 29 | Athulya M. T., Rebecca Pothan, Saji S., Vivek R., Simla B, ManjuSreekumar, "Automatic Rail Road Gate Control", MBCET Journal of Research, Volume 3 issue  |
| 30 | G. K. Nisha, Z. V. Lakapampil and S. Ushakumari, "Effect of Leakage inductance on Torque Capability of Field Oriented Controlled Induction Machine in Field Weakening Region," International Conference on Advances in Engineering and Technology (ICAET'2014), Singapore, 29-30, March 2014  |
| 31 | G. K. Nisha, Z. V. Lakapampil and S. Ushakumari, "Effect of Power factor on Torque Capability of FOC Induction Machine in Field Weakening Region for Propulsion Systems," communicated for publication in Journal of Institution of Engineers (India) Series-B: Springer. (under Review)  |
| 32 | G. K. Nisha, Z. V. Lakapampil and S. Ushakumari, "Four Quadrant Operation of Field weakened FOC Induction motor Drive Using Sliding Mode Observer," Transactions on Engineering Technologies (Springer publication), Special Volume of WCE, pp. 385-402, May 2014   |
| 33 | Stella Kurian, Nisha G.K, "Open Loop Control of Switched Reluctance Motor Using Theta Position Sensing", International Journal of Innovative Science, Engineering & Technology, Vol. 1 Issue 10, December 2014  |
| 34 | Jim Joy Mattapalil, Rini George, Shamlin S, Sruthi Raj, Swetha E Samuel, FR Rejish Babu, "Power Hump", MBCET Journal of Research, Volume 3 issue MBCET journal  |
| 35 | Bipin Francis, Aksa Rose Antony, Annet Rose Francis, Aswin Johnson, Linto Jose Thomas, Soumya A.V, "Automatic Toll Collection System using passive RFID tags", MBCET Journal of Research, Volume 3 issue  |
| 36 | Sreedevi K J, Sojy Rajan "A New Pulse Width Modulated PFC Zeta Converter fed Sensorless BLDC Motor Drive with Position Feedback", International Journal of Science and Research, Volume.3, Issue-7, July 2014, pp 723-729   |
| 37 | 1) Vinay P, Manju Ann Mathew "Modelling and Evaluation of MPPT Techniques based on a Cuk Converter", International Journal of Engineering Research and Technology(IJERT), Volume.3, Issue5., May-2014, pp 947-952   |
| 38 | 2) Vinay P, Manju Ann Mathew, "A Fuzzy based PV fed Brushless DC Motor", International Journal of Engineering Research and Technology(IJRET), Volume.3, Issue5., May-2014   |
| 39 | M K Giridharan, Archana A N, Abhijith A A, Aida Anna Oomen, Prakash Thomas Francis, Ruby Rajan, Varun S Muralledharan, "Performance assessment of 100 kW Solar Power Plant Installed at Mar Baselios College of Engg & Technology" International Journal of Emerging Technology and Advanced Engg, Volume 4; Issue 6, pp 694-699, June 2014 |
| 40 | Vinaya George, Arya Gowri, "DTC and FOC Control Strategies for BLDCM" International journal of Technology and Research Advances(IJTRA), Volume of 2014, issue VII   |