

LIST OF PUBLICATIONS

1. Reeba Rex S., **Mary Synthia Regis Prabha D. M.**, "Design of PWM with Four Transistor Comparator for DC-DC Boost Converters", *Microprocessor and Microsystems*, ELSEVIER, Feb 2020, <https://doi.org/10.1016/j.micpro.2019.07.003>, vol. 70, PP. 1-18, **Impact Factor 1.045**
2. **Mary Synthia Regis Prabha D.M.**, Bindhu V. S., An Autonomous Res Based System to Improve Power Quality Using DVR With ANN Controller Technique, *Journal of Green Engineering (JGE)*, Volume-9, Issue-3, October 2019, pp. 387-401 (**Scopus**), **Alpha Publishers**
3. **Mary Synthia Regis Prabha D.M.**, Jambulingam S., ANN Based Improved Regenerative Braking System on PV/Battery Powered Electric Vehicles with Single Stage Interaction Converter, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-8, Issue- 9S2, pp. 738-747, July 2019 (**Scopus**), Blue Eyes Intelligence Engineering & Sciences Publication, DOI: 10.35940/ijitee.I1153.0789S219
4. Reeba Rex S., **Mary Synthia Regis Prabha D. M.**, Analysis of EMI Reduction in Optimised Boost Converter Using Analogue PWM Chaotic Technique, *International Journal of Recent Technology and Engineering (IJRTE)* ISSN: 2277-3878, Volume-7 Issue-5S2, pp. 160-164, January 2019 (**Scopus**), **Blue Eyes Intelligence Engineering & Sciences Publication**
5. **Mary Synthia Regis Prabha D.M.**, Gayathri A. R, Cuttlefish optimization control of solar PV array fed landsman converter, *International Journal of Pharmaceutical Research*, 10(4), pp. 235-246, August 2018. (**Scopus**), DOI: 10.31838/ijpr/2018.10.04.052, Association of Indian pharmacist-AIP
6. **Mary Synthia Regis Prabha D.M.**, Gayathri A. R., Grey wolf algorithm optimized solar PV array fed Landsman converter, *Journal of Advanced Research in Dynamical and Control Systems*, 10(5), pp. 207-216, 2018 (**Scopus**), **Publisher:** Institute of Advanced Scientific Research
7. **Mary Synthia Regis Prabha D.M.**, Reeba Rex, Modern optimization based controller design for boost converter using soft computing techniques, *Journal of Advanced Research in*

Dynamical and Control Systems, 10(2), pp. 127-135, 2018 (**Scopus**), **Publisher:** Institute of Advanced Scientific Research

8. Mary Synthia Regis Prabha D.M., Reeba Rex, A speed control of DC motor with PWM using microcontroller in hardware in loop, *International Journal of Engineering and Technology (UAE)*, 7 (3.27 Special Issue 27), pp. 116-119, 2018, Science Publishing Corporation, DOI: 10.14419/ijet.v7i3.27.17669
9. **Mary Synthia Regis Prabha D.M.**, Gayathri A. R, Crow Search Optimized Control of Photovoltaic Array Fed Landsman Converter for Industrial Applications, *International Journal of Pure and Applied Mathematics*, 118(18), pp. 3525-3544, 2018, ACADEMIC PUBLICATIONS, DOI: jsi/2018-118-18/articles/18d/42
10. **Mary Synthia Regis Prabha D.M.**, Reeba Rex, Controller design for boost converter using soft computing techniques based optimization algorithms, *Journal of Advanced Research in Dynamical and Control Systems*, 10(12), 327-339, 2018 (**Scopus**)
11. **Mary Synthia Regis Prabha D.M.**, Bindhu V. S., Power and power factor control strategies of hybrid energy system using PID controller, *Journal of Advanced Research in Dynamical and Control Systems*, 10(12), pp.340-352, January 2018 (**Scopus**), **Institute of Advanced Scientific Research**
12. **Mary Synthia Regis Prabha D.M.**, S. Pushpa Kumar, G. Glan Devadhas, Optimum setting and Performance evaluation of the three mode controller using bio inspired soft computing algorithms, *WSEAS Trans. on system and control*, 10(1), pp. 163-176, 2016, World Scientific and Engineering Academy and Society (WSEAS) Press
13. **D. Jackson, M. Dev Anand, T. Sivarajan and D. M. Mary Synthia Regis Prabha.**, Development of utilizing magnetic brake in small wind turbine speed control using Fuzzy Logic Controller, *Indian Journal of Science and Technology*, 9(13), pp. 1-13, Apr-2016, DOI: 10.17485/ijst/2016/v9i13/90560, Publishers: Indian Society of Education and Environment
14. **G. Glan Devadhas, Akhil Jose, D.M.Mary Synthia Regis Prabha, Avinashe K K.**, A Novel technique for patient health monitoring system, *Journal of Chemical and Pharmaceutical Sciences*, 9(4), pp.2688-2694, 2016 (**Scopus**)
15. **Mary Synthia Regis Prabha D.M.**, Inverse kinematics solution of a five joint robot using narx algorithm, *Journal of Chemical and Pharmaceutical Sciences*, 9(4), pp. 2677- 2687, 2016. (**Scopus**)

16. G. Glan Devadhas, M. Dev Anand, **D. M. Mary Synthia Regis Prabha**, Characterization of Hydrocarbons Generated from Electric Discharge Machining of Aluminum based Composite Material, Indian Journal of Science and Technology 9(13), Apr-2016, DOI: 10.17485/ijst/2016/v9i13/90579, pp. 1-10, Publishers: Indian Society of Education and Environment
17. A. Jambulingam, **D. M. Mary Synthia Regis Prabha**, *A Hybrid AC/DC Microgrid Converter Control*, International journal of Engineering Research and Science & Technology, ISSN 2319-5991, Vol. 4, No. 3, pp. 271-275, August 2015
18. V. S. Bindhu, **D. M. Mary Synthia Regis Prabha**, *A survey on control and communication of smart microgrid*, Indian Journal of Science and Technology, ISSN (Print) : 0974-6846, ISSN (Online) : 0974-5645 Vol 8(25), IPL0328, September 2015, pp. Publishers: Indian Society of Education and Environment, DOI: 10.17485/ijst/2015/v8i25/85920
19. I. S. Sreedevi, **D. M. Mary Synthia Regis Prabha**, *A survey on nanogrid*, Indian Journal of Science and Technology, ISSN (Print) : 0974-6846 ISSN (Online) : 0974-5645 Vol 8(24), IPL0328, September 2015, (**Scopus**), Publishers: Indian Society of Education and Environment, DOI: 10.17485/ijst/2015/v8i24/80880
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21. **D. M. Mary Synthia Regis Prabha**, S. Pushpa Kumar, Design and analysis of PID based Sliding Mode Voltage Controller For Buck Converter, *International Journal on Electronics and Electrical Engineering*, 2011, Vol. 14, Issue 1, 42-46, Publisher: International Research Publication House.
22. **D. M. Mary Synthia Regis Prabha**, S. Pushpa Kumar, Design and Analysis of PWM based Variable Structure Voltage Controller for a dc-dc converter, *International Journal of Power Systems and Power Electronics*, UPA International Journals, 2011, Vol. 4, Issue 1, 45-50.
23. **D. M. Mary Synthia Regis Prabha**, X. Felix Joseph, S. Pushpa Kumar, D. Arun Dominic, Design and Simulation of a soft switching scheme for a dc-dc converter with pi controller, *International Journal of Engineering*, 4(4), pp. 285-295, 2010, Publishers: Materials and Energy Research Center

