1. P. Veera Manikandanand **S.Selvaperumal (2021)** "Investigation of different MPPT techniques based on fuzzy logic controller for multilevel DC link inverter to solve the partial shading" Soft Computing, 25(4), pp. 3143–3154, DOI: https://doi.org/10.1007/s00500-020-05370-0, Impact factor 3.643 (SCI).

2. Nedumal Pugazhenthi P **S. Selvaperumal** K. Vijayakumar (2021). Nonlinear PID controller parameter optimization using modified hybrid artificial bee colony algorithm for continuous stirred tank reactor. Bulletin of the Polish Academy of Sciences: Technical Sciences, Volume.69, No.3, PP. e137348, DOI: 10.24425/bpasts.2021.137348, Impact factor 1.662 (SCI)

3. **S. Selvaperumal** N. Krishnamoorthy G. Prabhakar (2021). A novel source side power quality improved soft starting of three-phase induction motor using a symmetrical angle controller through pic microcontroller. Bulletin of the Polish Academy of Sciences: Technical Sciences, Volume.69, No.2, PP. e136746, DOI: 10.24425/bpasts.2021.136746, Impact factor 1.662 (SCI)

4. P. Veera Manikandanand **S.Selvaperumal** "EANFIS-based Maximum Power Point Tracking for Standalone PV System" IETE Journal of Research,Published online: 14 Jul 2020 (DOI: https://doi.org/10.1080/03772063.2020.1788425), Impact factor 2.333 (SCI)

5. G.Prabhakar, **S.Selvaperumal**, P. Nedumal Pugazhenthi,K.Umamaheswari and P.Elamurugan "Online optimization based model predictive control on two wheel Segway system" Elsevier-materials today proceedings, Published online: 15 Jul 2020 (DOI: https://doi.org/10.1016/j.matpr.2020.06.227) (Scopus-SJR 0.34)

6. R, Senthil Ganesh, P, Karuppasamy, A, Abudhahir, R, Vinoth, and **S.Selvaperumal** "3D Modelling of MFL Imaging System to Detect the Diverse Surface Defects in Ferromagnetic Tubes" Materials Evaluation, (2020): 78(3): 379 – 386 **(DOI: doi.org/10.32548/2020.me-04078),** Impact factor 0.772 (SCI)

7. S. Lakshmi Kanthan Bharathi and **S.Selvaperumal** "MGWO-PI controller for enhanced power flow compensation using unified power quality conditioner in wind turbine squirrel cage induction generator" Microprocessors and Microsystems, (2020) 76: 1 – 8 **(https://doi.org/10.1016/j.micpro.2020.103080),** Impact factor 1.525 (SCI)

8. P.Veeramanikandan and **S.Selvaperumal** "A Fuzzy - Elephant Herding Optimization technique for Maximum Power Point Tracking in the Hybrid Wind-Solar system" International Transactions on Electrical Energy Systems, September (2019): 1 – 14 (**https://doi.org/10.1002/2050-7038.12214**), Impact factor 2.860 (SCI)

9. N. Balamurugan and **S. Selvaperumal** "Experimental Analysis of Performance and Thermal Capability of Three Phase Squirrel Cage Induction Motor Using Plastered Composite Conductors" Current Nanomaterials, (2019): 4(3): 201 – 205 (**DOI** : 10.2174/2405461504666190912144746). **(SCOPUS)**

10. Asokan Sivaprakash, Samuel Nadar Edward Rajan and **Sundaramoorthy Selvaperumal**," Privacy Protection of Patient Medical Images using Digital Watermarking Technique for E-healthcare System." Current Medical Imaging (Formerly: Current Medical Imaging Reviews), (2019): 15(8): 802 – 809 (DOI: 10.2174/1573405615666190408115158).), Impact factor 0.858 (SCI)

11. Sivaprakash, Asokan; Rajan, Samuel Nadar Edward; **Selvaperumal, S**.," A Novel Robust Medical Image Watermarking Employing Firefly Optimization for Secured Telemedicine." Journal of Medical Imaging and Health Informatics (2019): Volume

9, Number 7, September 2019, pp. 1373-1381(9) (https://doi.org/10.1166/jmihi.2019.2759), Impact factor 0.659 (SCI)

12. Shyamala Balakumar, **Selvaperumal Sundaramoorthy**, Ramasubramanian Bhoopalan, G. Prabhakar, "Detection of Moving Object in Dynamic Visual Sequences Based on Partial Least Squares Classifier." Journal of Medical Systems, (2019) 43: 259. (https://doi.org/10.1007/s10916-019-1386-2), Impact factor 4.460 (SCI)

13. Sundaram, Sivagama Sundari Meenakshi, **Sundaramoorthy Selvaperumal**, " A grid-connected asymmetrical cascaded H-bridge 81 level inverter with single PV unit and voltage splitting multi winding isolation transformer in marine applications." Indian Journal of Geo-Marine Science, (2019): 716-723, http://nopr.niscair.res.in/handle/123456789/47418, Impact factor 0.496 (SCI)

14. Tae Keun Yoo, Joon Yul Choi, Jeong Gi Seo, Bhoopalan Ramasubramanian, **Sundaramoorthy Selvaperumal**, Deok Won Kim" The possibility of the combination of OCT and fundus images for improving the diagnostic accuracy of deep learning for age-related macular degeneration: a preliminary experiment." Medical & Biological Engineering & Computing, Springer Berlin Heidelberg, (**2018**): 1-11, ISSN:0140-0118, DOI: https://doi.org/10.1007/s11517-018-1915-z, Impact factor 2.602 (SCI)

15. G. Prabhakar &**S. Selvaperumal** "Formation Control of Cyber Physical Robots in Marine Applications" Indian Journal of Geo-Marine Science, NISCAIR-CSIR, India,Vol. 47 (08), August 2018, pp. 1679-1687(**2018), http://nopr.niscair.res.in/handle/123456789/44758,** Impact factor 0.496 (SCI)

16. Prabhakar Gunasekaran, **Selvaperumal Sundaramoorthy**, Nedumal Pugazhenthi Pulikesi " Fault data injection attack on car-following model and mitigation based on interval type-2 fuzzy logic controller." IET Cyber-Physical Systems: Theory &Applications (**2019**): Vol.4, issue.2, pp.128-138, https://doi.org/10.1049/iet-cps.2018.5012, (Scopus-SJR 0.31)

17. G. Prabhakar, **S Selvaperumal** and P. Nedumal-Pugazhenthi. " Fuzzy PD Plus I Control-based Adaptive Cruise Control System in Simulation and Real-time Environment." IETE Journal of Research 65(1) (**2019**): pp69-79, https://doi.org/10.1080/03772063.2017.1407269, Impact factor 2.333 (SCI)

18. Anna Raja K*, Saravana Sundaram S, **Selvaperumal S**, Prabhakar G" ANN-based Maximum Power Point Tracking for a Large Photovoltaic Farm Through Wireless Sensor Networks." Current Signal Transduction Therapy (2019): Vol.14 (2) pp. 38-48, 10.2174/1574362413666180906095925, (Scopus-SJR 0.13)

19. A. Shyamala, **S. Selvaperumal***, Prabhakar G" Anfis Classifier Based Moving Object Detection and Segmentation in Indoor and Outdoor Environments." Current Signal Transduction Therapy (2019): Vol. 14 (2) pp. 21-30, DOI : 10.2174/1574362413666180226113024, (Scopus-SJR 0.13)

20. B.Ramasubramanian and **S Selvaperumal**"Efficient Approach for the Automatic detection of Hemorrhages in Color Retinal Images." IET Image Processing (**2018**): Vol.12 (9) pp.1550-1554, DOI: 10.1049/iet-ipr.2017.1036, Impact factor 1.995 (SCI)

21. **S Selvaperumal**, MS Sundari. "A Comparative Analysis of Multicarrier Modulation Strategies for Cascaded H-Bridge Multilevel Inverter." Journal of Computational and Theoretical Nanoscience 14.12 (**2017**): 6020-6029, ISSN:1546-1955, DOI: https://doi.org/10.1166/jctn.2017.7051, (Scopus-SJR 0.358).

22. Sivakumar Palanisamy, Vairamani Rajasekaran, **Sundaramoorthy Selvaperumal** " Design and Analysis of FPGA Controller Based Pulse Width Modulation Boost Rectifier in Marine Applications." Journal of Computational and Theoretical Nanoscience 14.12 (**2017**): 5851-5857, ISSN: 1546-1955, DOI: https://doi.org/10.1166/jctn.2017.7022, (Scopus-SJR 0.358).

23. **S Selvaperumal**, PN Pugazhenthi, A Amudha – **2017** "Closed loop performance investigation of various controllers based chopper fed DC drive in marine applications" Indian Journal of Geo-Marine Science, Vol.46(05) [May 2017]   1044-1051, http://nopr.niscair.res.in/handle/123456789/41648, Impact factor 0.496 (SCI).

24. KS Banu, P Karuppasamy, **S Selvaperumal** - **2017** "Modal based analysis of binary adders with fault tolerance using QCA in marine applications" Indian Journal of Geo-Marine Science, NISCAIR-CSIR, India, Vol.46(05) [May 2017]   1069-1075, http://nopr.niscair.res.in/handle/123456789/41645, Impact factor 0.496 (SCI)

25. **S Selvaperumal**, S Muralidharan, P Nedumal Pugazhenthi, G Prabhakar, J Nazaren, Parthiban P Gnanaskanda, P Karuppa Samy- **2017** "Performance Investigation of SHE PWM Implementation of GA Based LCL Resonant Inverter in Marine Applications" Indian Journal of Geo-Marine Science, NISCAIR-CSIR, India, Vol.46(09) [September 2017] 1889-1898, http://nopr.niscair.res.in/handle/123456789/42592, Impact factor 0.496 (SCI).

26. Gomathy, V., and **S. Selvaperumal**. "Fault detection and classification with optimization techniques for a three-phase single-inverter circuit." Journal of Power Electronics 16.3 (**2016**): 1097-1109, DOI: 10.6113/JPE.2016.16.3.1097, Impact factor 1.114 (SCI).

27. **S Selvaperumal**, PN Pugazhenthi,S.Vijayarajan– **2016** "Performance Investigation of Genetic Algorithm Based LCL Resonant Converter in Marine Applications" Indian Journal of Geo-Marine Science, NISCAIR-CSIR, India, Vol.45(10) [October 2016] 1377-1388, http://nopr.niscair.res.in/handle/123456789/35734, Impact factor 0.496 (SCI)

28. Nachimuthu, Balamurugan; Sundramoorthy, Selvaperumal– 2018 "Intelligent controller for speed control of three phase induction motor using indirect vector control method in marine applications" Indian Journal of Geo-Marine Science, NISCAIR-CSIR, India, Vol.47(05) [May 2018]   1069-1074, http://nopr.niscair.res.in/handle/123456789/44411, Impact factor 0.496 (SCI)

29. SP Rajaram, **S Selvaperumal**. " Evaluation of Steady State Voltage Stability Margin of a Power System Using Search Group Algorithm." Journal of Computational and Theoretical Nanoscience 13.11 (**2016**): 8326-8332, DOI: https://doi.org/10.1166/jctn.2016.5976, (Scopus-SJR 0.358)

30. Veenalakshmi, S., P. Nedumal Pugazhenthi, and **S. Selvaperumal**. "Modeling and PID Control of Single Switch Bridgeless SEPIC PFC Converter." Applied Mechanics and Materials.   Vol.   573.   Trans   Tech   Publications,   **2014**, https://doi.org/10.4028/www.scientific.net/AMM.573.161.**(SCOPUS)**

31. Prabhakar, G., P. Nedumal Pugazhenthi, and **S. Selvaperumal**. "Implementation Analysis of State Space Modelling and Control of Nonlinear Process using PID algorithm in MATLAB and PROTEUS Environment." Applied Mechanics and Materials. Vol. 573. Trans   Tech   Publications,   **2014**,   Pages: 297-303 https://doi.org/10.4028/www.scientific.net/AMM.573.297.**(SCOPUS)**

32. Vijayarajan, Singaraj, N. Kamaraj, and **S. Selvaperumal**. "Day and Night Utilization of Solar PV System Integrated with Stand alone Wind generator for real and reactive power

management in Three phase Unbalanced Load." Applied Mechanics and Materials. Vol. 573. Trans Tech Publications, **2014**. Pages:702-707, https://doi.org/10.4028/www.scientific.net/AMM.573.702 **(SCOPUS)**

33. Poun Raj, K., Raja Sekaren, V., **Selvaperumal, S**., & Mageswari, N. (**2014**). Performance Investigation of DQ Model for PI and Fuzzy Controller Based UPFC. In Applied Mechanics and Materials (Vol. 573, pp. 310-316). Trans Tech Publications. https://doi.org/10.4028/www.scientific.net/AMM.573.310**(SCOPUS)**

34. Ramasubramanian, B., and **S. Selvaperumal**. "A Novel Efficient Approach for the Screening of New Abnormal Blood Vessels in Color Fundus Images." Applied Mechanics and Materials. Vol. 573. Trans Tech Publications, **2014**. Pages: 808-813, https://doi.org/10.4028/www.scientific.net/AMM.573.808**(SCOPUS)**

35. Sainath, K. V., G. Prabhakar, and S. **Selvaperumal.** "An Integrated Design of Current Conveyor II based Analog PID Controller and Analyze the Control by using PID tuning rule." Applied Mechanics & Materials 573 (**2014**), Pages:242-247, https://doi.org/10.4028/www.scientific.net/AMM.573.242**(SCOPUS)**

36. Kavitha, I., **Selvaperumal, S**., Pugazhenthi, P. N., Rajithkhan, A. M., & Jagatheesan, R. Performance Investigation of PI Controller based Chopper fed DC Drive. Applied Mechanics & Materials, (573), (**2014**). Pages:19-25, https://doi.org/10.4028/www.scientific.net/AMM.573.19.**(SCOPUS)**

37. K.Pounraj and **Selvaperumal, S**. " Dynamic Performance Investigation of DQ Model Based UPFC with Various Controlling Techniques." International Journal of Applied Engineering Research, **2014**, 9.21: 10651-10670.**(SCOPUS)**

38. **Selvaperumal, S**., and C. Christober Asir Rajan. "Harmonic Investigation and Simulation of Full Bridge LCL Resonant Inverter" Advance Materials Research Vols. 403-408 (**2012**): 3600-3607, https://doi.org/10.4028/www.scientific.net/AMR.403-408.3600**(SCOPUS)**

39. **Selvaperumal, S**., and C. Rajan. "Investigation of fuzzy control based LCL resonant converter in RTOS environment." Journal of Intelligent & Fuzzy Systems 26.2 (**2014**): 913-924, DOI: 10.3233/IFS-130782, Impact factor 1.851 (SCI)

40. Kasinathan, Pounraj, Rajasekaran Vairamani, and **Selvaperumal Sundramoorthy**. "Dynamic performance investigation of d–q model with PID controller-based unified power-flow controller." IET Power Electronics 6.5 (**2013**): 843-850, https://doi.org/10.1049/iet-pel.2012.0551, Impact factor 2.672 (SCI)

41. **Selvaperumal, S**., and C. Christober Asir Rajan. "Investigation of closed-loop performance for an LCL resonant converter in a real-time operating system environment." IET Power Electronics 5.5 (**2012**): 511-523, DOI:10.1049/iet-pel.2011.0211, Impact factor 2.672 (SCI).

42. **Selvaperumal, S**., C. Christober Asir Rajan, and S. Muralidharan. "Stability and performance investigation of a fuzzy-controlled LCL resonant converter in an RTOS environment." IEEE Transactions on Power Electronics 28.4 (**2013**): 1817-1832, DOI: 10.1109/TPEL.2012.2214236, Impact factor 6.153 (SCI).