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List of Publications (Last Five Years)

1. P. Veera Manikandan and **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>)pp.1-15
2. G.Prabhakar, **S.Selvaperumal**, P. Nedumal Pugazhenth, 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>)
3. 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)
4. 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>)
5. 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>)
6. 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](https://doi.org/10.2174/2405461504666190912144746))
7. Asokan Sivaprakash, Samuel Nadar Edward Rajan and **S. Selvaperumal**, " Privacy Protection of Patient Medical Images using Digital Watermarking Technique for E-healthcare System." **Current Medical Imaging** (2019): 15(8): 802 – 809 (DOI: [10.2174/1573405615666190408115158](https://doi.org/10.2174/1573405615666190408115158))
8. 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>)

9. Shyamala Balakumar, **S. Selvaperumal**, Ramasubramanian Bhoopalan, G. Prabhakar, "Detection of Moving Object in Dynamic Visual Sequences Based on Partial Least Squares Classifier." **Journal of Medical Systems**, (2019) 43(8), pp.1-8
10. Sundaram, Sivagama Sundari Meenakshi, **S. 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): 48(5), pp.716-723.
11. Tae Keun Yoo, Joon Yul Choi, Jeong Gi Seo, Bhoopalan Ramasubramanian, **S. 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**, 57(3), pp.677-687, 2018
12. G. Prabhakar & **S. Selvaperumal** "Formation Control of Cyber Physical Robots in Marine Applications" **Indian Journal of Geo-Marine Science**, Vol. 47 (08), August 2018, pp. 1679-1687(2018)
13. Prabhakar Gunasekaran, **S. Selvaperumal**, Nedumal Pugazhenthii 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.
14. G. Prabhakar, **S. Selvaperumal** and P. Nedumal-Pugazhenthii. " 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>
15. Anna Raja K*, Saravana Sundaram S, **S. Selvaperumal**, 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.
16. 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.
17. B.Ramasubramanian and **S. Selvaperumal** "Efficient Approach for the Automatic detection of Haemorrhages in Colour Retinal Images." **IET Image Processing** (2018): Vol.12 (9) pp.1550-1554.

18. **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): pp.6020-6029
19. Sivakumar Palanisamy, Vairamani Rajasekaran, **S. 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
20. **S. Selvaperumal**, PN Pugazhenth, A Amudha – 2017 “Closed loop performance investigation of various controllers based chopper fed DC drive in marine applications” **Indian Journal of Geo-Marine Science**, 46(5), pp.1044-1051
21. 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**, 46(5), pp.1069-1075
22. **S. Selvaperumal**, S Muralidharan, P Nedumal Pugazhenth, 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**, 46(9), pp.1889-1898
23. 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.
24. **S. Selvaperumal**, PN Pugazhenth, S. Vijayarajan– 2016 “Performance Investigation of Genetic Algorithm Based LCL Resonant Converter in Marine Applications” **Indian Journal of Geo-Marine Science**, 45(10), pp.1377-1388..
25. N Balamurugan and **S. Selvaperumal**. "Assessment of Anti-Windup PI Controlled Induction Motor Drive Using V/F Method." **International Journal of Advanced Engineering Technology** /Vol. VII/Issue I/Jan.- March, 2016: 964-968.
26. K. Pounraj and **S. Selvaperumal**. " Design Of Artificial Neural Network Based Control Scheme For The Management Of The Unified Power Flow Controller In A Single Machine Infinite Bus Bar System." **International Journal of Advanced Engineering Technology** , Vol. VII/Issue I/Jan.-March, 2016: 593-596.
27. 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.