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### **List of Publications:**

1. Ahilan, S. N. Kumar, C. Agees Kumar, **T. Jarin**, et. Al., Segmentation by Fractional Order Darwinian Particle Swarm Optimization Based Multilevel Thresholding and Improved Lossless Prediction Based Compression Algorithm for Medical Images. July 2019, IEEE Access (Volume: 7) PP: 89570-89580, DOI:10.1109/access.2019.2891632. **(SCI)**.
2. **T. Jarin**, R. Muniraj, M. Sivapalanirajan, S.R. Boselin Prabhu, Evaluation of various benchmark processes with appropriate controller design in LabVIEW platform, Journal of Instrumentation, 14 (5), DOI: 10.1088/1748-0221/14/05/T05008 June 2019. **[SCI]**
3. Nidal Abulibdeh, K. Vinoth Kumar, C. Karthika, **T. Jarin**, A. Gopi, Afaf Bouzidi, exploring magnetic fluid sensor using dual circular core elliptical cladding photonic crystal fiber, Results in Physics March 2019 (13) DOI: 10.1016/j.rinp.2019.102216 [Elsevier] **[SCI]**.
4. S. R. Boselin Prabhu, R. Puviarasi, S. S. Sreeja Mole, **T. Jarin**, and E. Gajendran, Evaluation Strategies for Wireless Ultra Wideband Communication Towards Orthopaedic Surgical Scheme, December 2018, Journal of Medical Imaging and Health Informatics 8(9):1791-1803(13), **[SCI]**
5. T.V. Ramana, **T. Jarin**, Ahmed Nabih Zaki Rashed, A. Sampath kumar, Numerical analysis of circularly polarized modes in coreless photonic crystal fiber, Results in Physics March 2019 (13), [Elsevier] **[SCI]**.
6. **T. Jarin**, P. Subburaj and Shibu J V Bright “A ripple rejection inherited RPWM for VSI working with fluctuating DC link voltage” Journal of Electrical Engineering & Technology, Volume 10, Issue 5, pp.: 2018-2030, 2015. **[SCI]**
7. Milner Vithayathil, **T. Jarin**, S.R. Boselin Prabhu, Richard Ningthoujam, Loitongbam Surajkumar Singh, “Designing and Modelling of a Low-Cost Wireless Telemetry System for Deep Brain Stimulation Studies”, Indian Journal of Science and Technology, 12(8), March 2019, **[Web Of Science]**.
8. Aswathy S U, **Jarin T**, Ria Mathews, Roan, “CAD Systems for Automatic Detection and Classification of Covid-19 in Nano CT Lung Image by Using Machine Learning Technique”, International Journal of Pharmaceutical Research, Apr - Jun 2020, Vol 12, Issue 2

9. J. Mahesh K. Nagamani & **Jarin T.** Corrosion of reinforcement in concrete with fly ash and manufactured sand, September 2018, Taylor & Francis, Material Research Innovations, Volume 23, 2019 - Issue 7, DOI: 10.1080/14328917.2018.1512736.
10. S. R. Boselin Prabhu & **Jarin T.**, Evaluation Methods for Incorporating Non-Deterministic Characteristics in PWM Strategy of Induction Motor Drives and FPGA Based Experimental Implementation, June 2018, Journal of Electrical Engineering, Vol.18, Issue (1).
11. Jarin T, K Ezhil Vignesh, Stephy Akkara, A Revised RLS Algorithm for Low Frequency Electro Mechanical Oscillation, Journal of Advanced Research in Dynamical and Control Systems 11(4):112-122, May 2019.
12. Sumini Mani, Jaison Mulerikal, **Jarin T.**, Intelligent Parking Management System using Dijkstra's Algorithm with Driver Preferences, Test Engineering and Management, January - February 2020, PP. 9186 – 9194.
13. Milner Vithayathil, **Jarin T.**, George Athappilly, Neural Proliferation using Brain stimulation Methods Intended for Paediatric Neuropsychiatric Population: A Hypothesis and Theoretical Investigation, Test Engineering and Management, January - February 2020, PP. 9138 – 9151.
14. Ezhil Vignesh .K, Stephy Akkara, **Jarin. T.**, Simulation on the Generation of Electricity from running train wheels, International Journal of Mechanical and Production, Engineering Research and Development (IJMPERD), Vol. 9, Special Issue, Aug 2019, 1-13.
15. S. Sumathi, P. Subburaj, R. Rajesh, **T. Jarin**, and R. Suresh Kumar "Enhancement of Efficiency in Nano coated Induction Motor" World Applied Sciences Journal, Volume 35, Issue 2, pp.: 325-329, 2017.
16. **Jarin T.**, Binoy Velliyath, Milner Vithayathil & Paulson Mekkattil, Low-Cost Wireless Telemetry System for Deep Brain Stimulation, September 2018, International Journal of Behavioral Development 7(9):697.
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18. V. Adeline Premeja, T. R. Beena & **T. Jarin** "Crystallisation and Characterisation Of Novel Semi Organic Non-Linear Optical Crystal: Glycinium Oxalate", International Journal of Advanced Trends in Engineering and Technology (IJATET,) Volume 3, Issue 1, pp.: 42-53, 2018.

19. Aiswarya Raj, V. Shijoh, and **T. Jarin** "Sustentation of Energy by a Contemporary GSM Based Prepaid Energy Meter" Middle-East Journal of Scientific Research Volume 25, Issue 1, pp.:34-39, February 2017.
20. Akhil A. Balakrishnan, V. Shijoh, and **T. Jarin** "Phase Shift Controlled Full Bridge DC-DC Converter with Less Circulating Loss" Middle-East Journal of Scientific Research, Volume 25, Issue 1, pp.: 65-73, 2017.
21. S. Sumathi, P. Subburaj and **T. Jarin** "Critical Investigation of Minimum Field Conductor for Overhead Transmission Lines," Middle East Journal of Scientific Research, Volume 24, Issue 12, pp.: 3772-3779, 2016.
22. Arathi Premnath, Aiswarya Raj, V. Shijoh, **T. Jarin** "A Review Study-Smart Grid Integration of Renewable Sources Using EZ and Z Source Inverters" International Journal of Current Engineering and Scientific Research (IJCESR), Volume-4, Issue-10, 2017.
23. Stephy Akkara, **Jarin. T** & G.R Gnana King, A Prototype Design of RFID Centred Hi-Tech Toll Assortment Plaza, Mediterranean Journal of Basic and Applied Sciences (MJBAS), Volume 2, Issue 4, Pages 39-44, Oct-Dec 2018.
24. Soumya C and **Jarin T**, "A Novel Random Carrier Frequency Modulation Technique for Drive Applications," Asian Journal of Applied Science and Technology (AJAST), Volume 1, Issue 9, pp.:526-533.
25. Arathi Premnath, P. Saritha and **T. Jarin** "SFCL Technology for Generator Protection" Asian Journal of Applied Science and Technology (AJAST), Volume 1, Issue 9, Pages 95-97, October 2017.
26. Philip Chacko, K. S. Kapildas and **T. Jarin** "Nano Generator Intended for Energy Harvesting" Asian Journal of Applied Science and Technology (AJAST) Volume 1, Issue 9, Pages 88-91, October 2017.
27. Sai Lakshmi, Aiswariya Raj and **T. Jarin**, "A Review Study of E-Waste Management in India," Asian Journal of Applied Science and Technology (AJAST) Volume 1, Issue 9, pp. 33-36, 2017
28. **T. Jarin** and X. Z. Gao "FPGA Based Analysis of Non-Deterministic PWM in Induction Motor Drives" Asian Journal of Applied Science and Technology (AJAST), Volume 1, Issue 8, Pages 56-60, September 2017.
29. Jain Varghese, Stephy Akkara, **Jarin T**, Atmospheric Water Absorption Kit, Journal of Advanced Engineering Research, Volume 6, Issue 1, 2019, pp.39-43.
30. **Jarin T** and Subburaj P "Behaviour of Non-deterministic PWM Methods and Influence of DC Link Fluctuation in Harmonic Spreading Effect of VSI Output Voltage Spectrum" International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.20 (2015).
31. **T. Jarin**, P. Subburaj, and Shibu J.V. Bright "Performance Evaluation and Experimental Validation of Random Pulse Position PWM for Industrial Drives, "African Journal of Basic & Applied Sciences, Volume 7, Issue 3, pp.: 137-146 2015. 1



