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Publications:

1. **Gayathri Monicka, J** & Jamuna, V 2015, 'Multi Carrier based Multilevel Inverter with Minimal Harmonic Distortion' International Journal of Power Electronics and Drive System (**IJPEDS**), vol.42,(**Annexure-II**).
2. **Gayathri Monicka, J** & Jamuna, V 2015, 'Hybrid Cascaded MLI topology using Ternary Voltage Progression Technique with Multicarrier Strategy', Journal of Electrical Engineering & Technology (**JEET**) vol.10, pp.1610-1620, 2015 (Impact factor 0.517) (**Annexure-I**).
3. **Gayathri Monicka, J** , Jamuna, V & Diana 2015, 'Asymmetric Multilevel Inverter With Variable Frequency Modulation Strategy', International Journal of Applied Engineering Research (**IJAER**) vol.10 no.42, pp.30872-30877 (**Annexure-II**)
4. **Gayathri Monicka, J** , Jamuna, V 2015, 'Control of ternary voltage progression based cascaded multilevel inverter using classy split multicarrier pulse width modulation', Turkish Journal of Electrical Engineering and Computer Sciences. (**Annexure-I**).
5. **Gayathri Monicka, J**, K.P.Thooyamani 2015, 'Harmonic Reduction and Power Quality Enrichment in Three Phase Asymmetric Multilevel Inverter fed PMBLDC Drive System ', Middle East Journal of Scientific Research 24 (3): 823-828, 2016 (**Annexure-II**).
6. **Gayathri Monicka, J**, Dwarakesh 2016 "A Modified Topology for Three Phase Asymmetric Multi Level Inverter" World Applied Sciences Journal 34(10):1343-1350 (**Annexure-II**).
7. Amuthadevi, **Gayathri Monicka, J**, Madhusudhanan 2016 "A study of nature

inspired optimization algorithms” The IIOAB Journal,7(9):324-329. (Annexure-II).

8. **Gayathri Monicka,J,** Dwarakesh,C. AmuthaDevi, “Renewable based Multicarrier PWM Topology for Symmetric MLI” International Journal of Engineering and Technology, Vol 8 No 6 Dec 2016-Jan 2017,PP 2902-2911.(Scopus)
9. Amuthadevi, **Gayathri Monicka.J,** “Emerging bio-medical applications and open research challenges in cognitive internet of things (CIOT)” International Journal of Pharmacy and Technology” Dec-2016 Vol. 8 Issue No.4 5049-5054.(Scopus)
10. Dwarakesh, **Gayathri Monicka,J,** 2017 “Survey on Implementation of Choppers for Hybrid Electric Vehicles” International Journal of Advanced in management ,Technology and Engineering Sciences, Vol 7 No 10 2017.(UGC Approved)
11. Kumaresan,**GayathriMonicka.J,**2017“ASingleSwitchfullysoft-switching isolatedDC-DCconverterforRenewableApplication.”InternationalJournalof AdvancedinManagement, TechnologyandEngineeringSciences, Vol7No 10 2017. (UGCApproved)
12. **Gayathri Monicka.J,**RadhikaSomakumar, “Modulation And Optimisation TechniquesofMultilevelInverter:ATechnologyReview”Journalofadvanced Research in Dynamical and Control System,Vol.10,01 Feb.2018.(Scopus)
13. B.Rajapagalavan**Gayathri Monicka.J and** Radhika Somakumar, “Fault Diagnosis of On-Load Tap- Changer Using Acoustic Emission Techniques” International Journal of scientific &Technology Research ,Volume no 8, Issue12,December 2019(Scopus).
14. Radhika Somakumar**Gayathri Monicka.J and**B.Rajapagalavan, “Modified Seven Level Inverter using Level Shifting Pulse Width Modulation” International Journal of scientific &Technology Research ,pp 3523-3527Volume no 8, Issue12,December 2019(Scopus).
15. Amuthadevi, **Gayathri Monicka.J,** “Development of fuzzy approach to predict the fetus safety and growth using AFI” Journal of super computing” Dec-2019 DOI 10.1007/s11227-019-03099-8(Springer)
16. **Dr.Gayathri Monicka,** Apurva,Nishant and Piorebello “Design and Development of a Smart Electric Trike with detachable handle for Differently Abled” Elsevier material today . <https://doi.org/10.1016/j.matpr.2020.06.261>.