

List Of Journals & Conference papers

- Marulasiddappa, H. B., & Pushpa Rajesh, V. (2023, September). Direct torque control-based jelly fish algorithm for torque ripple reduction in permanent magnet synchronous motor. In 2023 International Conference on Network, Multimedia and Information Technology (NMITCON) (pp. 1-6). IEEE.
- Basappa, Marulasiddappa Hallikeri, and Pushparajesh Viswanathan. "ANFIS based Direct Torque Control of PMSM Motor for Speed and Torque Regulation." Indonesian Journal of Electrical Engineering and Informatics (IJEI) Vol. 10, No. 3, September 2022, pp. 549~558 ISSN: 2089-3272, DOI: 10.52549/ijeei.v10i3.3775 (SCOPUS:Q4)
- Basappa, M. H., & Viswanathan, P. (2022). Various control methods of permanent magnet synchronous motor drives in electric vehicle: a technical review. TELKOMNIKA (Telecommunication Computing Electronics and Control), 20(6), 1225-1229. (SCOPUS:Q3)
- Pushparajesh, V., B. M. Nandish, and H. B. Marulasiddappa. "Hybrid intelligent controller based torque ripple minimization in switched reluctance motor drive." Bulletin of Electrical Engineering and Informatics 10, no. 3 (2021): 1193-1203. DOI: <https://doi.org/10.11591/eei.v10i3.3039>
- Pushparajesh, V., B. M. Nandish, and H. B. Marulasiddappa. "Torque ripple minimization in switched reluctance motor using ANFIS controller." 2021, WSEAS Transactions on Systems and Control 16 (2021): 171-182
- Kiran Kumar, G. R., Shivakumar, L. N., & Marulasiddappa, H. B. Precision Motion Control with Variable Speed AC Drives Using PLC
- Basappa, Marulasiddappa Hallikeri, and Pushparajesh Viswanathan. "Direct Torque Control for Permanent Magnet Synchronous Motor Using Golden Eagle Optimized ANFIS." International Journal of Intelligent Engineering and Systems, Vol.15, No.4, 2022, pp.499~508. ISSN:2185-3118 DOI:10.22266/ijies2022.0831.45 (SCOPUS:Q3)
- Sabyasachi, S.; Borghate, V. B.; **Karasani, R. R.**; Santosh Kumar M.; Suryawanshi, H. M.;" Hybrid Control Technique Based Three Phase Cascaded Modular Multilevel Inverter Topology", *Journal of IEEE ACCESS* ,Vol. 5 , No. 1, pp. 26912-26921, Dec 2017, ISSN: 2169-3536, **Quartile: Q1 ;Impact Factor 4.82**
- Santosh Kumar, M.; Borghate, V. B.; **Karasani, R. R.**; Sabyasachi, S.; Suryawanshi, H. M.;"A Fault Tolerant modular multilevel Inverter Topology", *International Journal of Circuit Theory and Applications*, John Wiley & Sons Ltd, pp. 1-16, 2018, ISSN: 1097-007X, **Quartile: Q3; Impact Factor 2.45**
- **Karasani, R. R.**; Borghate, V. B.; Meshram, P. M.; Suryawanshi, H. M.;"A Modified Switched-Diode Topology Of Cascaded Multilevel Inverter", *Journal*

of Power Electronics, Vol. 16 , No. 5, pp. 1706-1715, Sep., 2016, ISSN: 2093-4718, **Quartile: Q3, Impact Factor 1.69**

- Hemanth Kumar, B; Lokhande, M. M.; **Karasani, R. R.**; Borghate, V. B.;” Fault Tolerant Operation of CHB Multilevel Inverter Based on SVM Technique Using an Auxiliary Unit”, *Journal of Power Electronics*, Vol. 18 , No. 1, pp. 56-69, 2018, ISSN: 2093-4718, **Quartile: Q3; Impact Factor 1.69**
- **Karasani, R. R.**; Borghate, V. B.; Sabyasachi, S.; Suryawanshi, H. M.; Meshram, P. M.; “Cascaded Multilevel Inverter Topology Developed From A Modified H-Bridge” *Electric Power Components and Systems (Taylor & Francis)*, Vol. 45 , No. 11, pp. 1191-1201, July 2017, ISSN: 5312-5016, **Quartile: Q3; Impact Factor 2.03**
- Santosh Kumar, M.; Borghate, V. B.; **Karasani, R. R.**; Sabyasachi, S.; Suryawanshi, H. M.;” A Three Phase Nine Level Fault Tolerant Asymmetrical Inverter”, *Arabian Journal for Science and Engineering, (Springer)*, pp. 1-12, 2018, ISSN: 2191-4281, **Quartile: Q1; Impact Factor 3.67**
- Hemanth Kumar, B; Lokhande, M. M.; **Karasani, R. R.**; Borghate, V. B.;” A Modified Space Vector PWM approach for Nine-Level Cascaded H-bridge Inverter”, *Arabian Journal for Science and Engineering, (Springer)*, pp. 1-19, 2018 ISSN: 2191-4281, **Quartile: Q1; Impact Factor 3.67**
- Hemanth Kumar, B; Lokhande, M. M.; **Karasani, R. R.**; Borghate, V. B.;” An Improved Space Vector Pulse Width Modulation for Nine-Level Asymmetric Cascaded H-Bridge Three Phase Inverter”, *Arabian Journal for Science and Engineering, (Springer)*, pp. 1-13, 2018, ISSN: 2191-4281, **Quartile: Q1; Impact Factor 3.67**
- Santosh Kumar, M.; Borghate, V. B.; **Karasani, R. R.**; Sabyasachi, S.; Suryawanshi, H. M. ,”A Linear Generator based wave power plant model using Reliable Multilevel Inverter ” *IEEE Transaction on Industry Applications Journal (IEEE-IAS)* , Vol. 55, N0.3 pp. 2964-2972 ISSN. 1939-9367, Feb, 2019, **Quartile: Q1; Impact Factor 5.49**
- T Abhiram , **R R Karasani** ,” Fuzzy-2 Deployment in Indirect Vector Control and Hybrid Space Vector Modulation for a Two-Level Inverter fed Induction Motor Drive”, **Scientific Reports (Accepted), 2025** , **Quartile: Q1; Impact Factor 3.4**
- **K. R Reddy**; Sabyasachi, S.; Meshram, P. M.; Borghate, V. B.;”An Asymmetrical Multilevel Inverter Topology with Reduced Source Count”, *IEEE Students’ Conference on Electrical, Electronics and Computer Science, SCECS*, ISBN: 978-1-4673-7918-2, Bhopal, March 5-6, 2016. **Quartile: Q3**
- **Karasani, R. R.**; Sabyasachi, S.; Santosh Kumar M.; Borghate, V. B.” A Modified Three Phase 5-level Symmetrical Multilevel Inverter Topology”, The 8th National Power Electronics Conference (NPEC) Pune / 2017 **Quartile: Q3**
- Sabyasachi, S.; Borghate, V. B.; Santosh Kumar, M; **Karasani, R. R.**; ”A Reliable Multilevel Inverter with Fault Tolerance”, *TENCON 2017 - 2017 IEEE Region 10 Conference*, pp. 557-562, ISBN. 978-1-5090-1134-6, Penang, Malaysia, 5-8 Nov. 2017 **Quartile: Q2**
- Santosh Kumar, M.; Borghate, V. B. Sabyasachi, S; **Karasani, R. R.**” A Fault Tolerant Cascaded Multilevel Inverter Topology For Open Circuit Faults In Switches”, IEEE International Transportation Electrification Conference (ITEC) 2017 Pune. **Quartile: Q2**

- Sabyasachi, S.; Borghate, V. B.; **Karasani, R. R.**; Santosh Kumar, M.” A Single Phase Hybrid multilevel Inverter developed from Half Bridge Cells”, The 8th National Power Electronics Conference (NPEC) Pune / 2017. **Quartile: Q3**
- Sabyasachi, S.; Borghate, V. B.; Santosh Kumar, M; **Karasani, R. R.**,” A Modified Reverse Voltage Inverter Topology With Inverted Sine Wave Carrier Pwm Technique”, IEEE International Transportation Electrification Conference (ITEC) 2017 Pune. **Quartile: Q2**
- K Raghavendra Reddy, T Abhiram, “A Generalized Single Phase Cascaded Modular Multilevel Inverter based on Inter and Intra Module Configurations”, IEEE Conference ICICCSP, Hyderabad, SNIST, July 21-23, 2022, **Quartile: Q3**