

PUBLICATIONS OF Dr.C.BHARATIRAJA

Research Publications

ORCID ID: 0000-0003-2517-2119

H-index: 16

Number of papers in Clarivate analytics listed journals: 45

Number of papers in Scopus indexed journals: 36

Total number of publications with impact factor: 81

Book Chapters: 8

Indexed Conference Papers: 31

Best paper award: 3

Highest Impact Factor: 7.6 (IEEE Transaction on Power Electronics)

Clarivate analytics listed journals

- [1] **C.Bharatiraja C ***, Chellammal N, Vibha K , Josiah Munda, “Minimization of Cross Regulation in Multi Input Multi Output Hybrid”, *Energies*. (Accepted – Manuscript ID -980200), **2020**.
- [2] C.Bharatiraja C *et.al*, “Robust ANN Based Control of Modified PUC-5 Inverter for Solar PV Applications”, IEEE Transactions on Industry Applications, 2019-IPCC-1631.R1. (Recommended for publication with revision), 2020
- [3] **C.Bharatiraja***, B. Srinath, “P/G pin location-aware Voltage Island Floor planning for IR drop avoidance in Two-dimensional Integration”, *IEEE Transactions on Circuits and Systems II: Express Briefs*. (Accepted – Manuscript ID: TCAS-II-08179-2020,), **2020**.
- [4] K. Ramesh, **C.Bharatiraja***, “Systematic Approach for State-of-the-Art Architectures and System-on-chip Selection for Heterogeneous IoT Applications”, *IEEE Access*. (Accepted – Manuscript ID Access-2020-54138), **2020**.
- [5] M. Anuradha, T. Jayasankar, N. B. Prakash, M. Y. Sikkandar, G. R. Hemalakshmi, **C. Bharatiraja**, and A. S. F. Britto, “IoT enabled cancer prediction system to enhance the authentication and security using cloud computing,” *Microprocessors and Microsystems, Elsevier*, p. 103301, (Early Access), Oct. **2020**.
- [6] **C.Bharatiraja** et.al., “State-Based Task Offloading Model for Improving Response Rate of Internet of Things Services”, *CMC-Computers, Materials & Continua*. (Accepted - ID: 14321), **2020**.
- [7] S. S. S Sethuraman, K. Santha, L. Mihet-Popa, and **C. Bharatiraja**, “A Modified Topology of a High Efficiency Bidirectional Type DC–DC Converter by Synchronous Rectification,” *Electronics*, vol. 9, no. 9, p. 1555, Sep. **2020**.
- [8] M. Selvaperumal, D. Kirubakaran, and **C. Bharatiraja**, “A hybrid space vector modulation for the near-zero common-mode voltage and common-mode current mitigation in diode-clamped multilevel-inverter-fed induction motor drive,” *International Transactions on Electrical Energy Systems*, vol. 30, no. 10, Aug. **2020**.
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- [11] Thiagarajan, S., Ankit Sonthalia, V. Edwin Geo, and **Bharatiraja Chokkalingam**. “Effect of Waste Exhaust Heat on Hydrogen Production and Its Utilization in CI Engine.” *International Journal of Hydrogen Energy, Elsevier*, vol. 45, no. 10, pp. 5987–5996, Feb. **2020**.

- [12] M. Karthikeyan, R. Elavarasu, P. Ramesh, **C. Bharatiraja**, P. Sanjeevikumar, L. Mihet-Popa, and M. Mitolo, "A Hybridization of Cuk and Boost Converter Using Single Switch with Higher Voltage Gain Compatibility," *Energies*, vol. 13, no. 9, p. 2312, May **2020**.
- [13] MS Kamalesh, **B Chokkalingam**, J Arumugam, G Sengottaiyan, An Intelligent Real Time Pothole Detection and Warning System for Automobile Applications Based on IoT Technology, *Journal of Applied Science and Engineering* 24 (1), 77-81, **2020**
- [14] M. Periyamayagam, S. Kumar V, **B. Chokkalingam**, S. Padmanaban, L. Mihet-Popa, and Y. Adedayo, "A Modified High Voltage Gain Quasi-Impedance Source Coupled Inductor Multilevel Inverter for Photovoltaic Application," *Energies*, vol. 13, no. 4, p. 874, Feb. **2020**.
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- [16] **C.Bharatiraja C ***, et.al, "Investigation on Simultaneous Operation of Two Hub BLDC Motors for Electric Vehicles", *Journal of Applied Science and Engineering*, (Accepted - Article in Press– Manuscript ID - JASE-2020-0219.R1), **2020**.
- [17] **C.Bharatiraja C ***, et.al, "A Photovoltaic Powered Integrated DC - DC Converter fed Multi-level Inverter for Standalone Applications", *Journal of Applied Science and Engineering*, (Accepted - Article in Press– Manuscript JASE-2020-0205.R1, **2020**.
- [18] **C.Bharatiraja C ***, et.al, "Investigation on ANFIS aided MPPT Technique for PV fed ZSI Topologies in Standalone Applications", *Journal of Applied Science and Engineering*, (Accepted - Article in Press– Manuscript ID - JASE-2020-0231.R1, **2020**.
- [19] K. Suresh, N. Chellammal, C. Bharatiraja, P. Sanjeevikumar, F. Blaabjerg, and J. B. H. Nielsen, "Cost-efficient nonisolated three-port DC-DC converter for EV/HEV applications with energy storage," *International Transactions on Electrical Energy Systems*, vol. 29, no. 10, Jun. **2019**.
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- [22] Madasamy, P., V. Suresh Kumar, P. Sanjeevikumar, Jens Bo Holm-Nielsen, Eklas Hosain, and **C. Bharatiraja**. "A Three-Phase Transformerless T-Type- NPC-MLI for Grid Connected PV Systems with Common-Mode Leakage Current Mitigation". *Energies*, 12, no. 12, p. 2434, June 24, **2019**.
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- [31] **C. Bharatiraja**, R. Selvaraj, T. R. Chelliah, J. L. Munda, M. Tariq, and A. I. Maswood, "Design and Implementation of Fourth Arm for Elimination of Bearing Current in NPC-MLI-Fed Induction Motor Drive," *IEEE Transactions on Industry Applications*, vol. 54, no. 1, pp. 745–754, Jan. **2018**.
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- [35] M. Tariq, M. Meraj, A. Azeem, A. I. Maswood, A. Iqbal, and **C. Bharatiraja**, "Evaluation of Level-Shifted and Phase-Shifted PWM Schemes for Seven Level Single-Phase Packed U Cell Inverter," *IEEE, CPSS Transactions on Power Electronics and Applications*, vol. 3, no. 3, pp. 232–242, Sep. **2018**.
- [36] **C. Bharatiraja**, P. Sanjeevikumar, and F. Blaabjerg, "Investigation and Comparative Analysis of Advanced PWM Techniques for Three-Phase Three-Level NPC-MLI Drives", in *Electric Power Components and Systems*. vol. 46, no. 3, pp. 258–269, Feb. **2018**.
- [37] **C. Bharatiraja***, et.al, "Energy Management Strategy for Rural Communities' DC Micro Grid Power System Structure with Maximum Penetration of Renewable Energy Sources," *Applied Sciences*, vol. 8, no. 4, p. 585, Apr. **2018**.
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- [40] N. R., V. A., **C. Bharatiraja**, S. Padmanaban, and Z. Leonowicz, "Class E Power Amplifier Design and Optimization for the Capacitive Coupled Wireless Power Transfer System in Biomedical Implants," *Energies*, vol. 10, no. 9, p. 1409, Sep. 2017. [**SCI -2.8 IF**]
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- [1] R. Krishnamoorthy, T. Jayasankar, S. Shanthi, M. Kavitha, and C. Bharatiraja, “Design and implementation of power efficient image compressor for WSN systems,” *Materials Today: Proceedings*, Elsevier, Oct. 2020.
- [2] C.Bharatiraja C* *et.al*, A Self Compensated Low Pass Gain Circuit For Biomedical Applications, *Materials Today: Proceedings*, Elsevier, (Accepted - Article in Press– Manuscript ID - MATPR-D-20-08739), 2020.
- [3] C.Bharatiraja C* *et.al*, Motion Discovery through Change Discovery Filter Matrix Derived from the Discrete Cosine Transform, *Materials Today: Proceedings*, Elsevier, (Accepted - Article in Press– Manuscript ID - MATPR-D-20-08741), 2020.
- [4] C.Bharatiraja C* *et.al*, Design of Low-Power Coupled Chopper Instrumentation Amplifier Using Pin Pong Ripple Reduction for Biomedical Applications , *Materials Today: Proceedings*, Elsevier, (Accepted - Article in Press– Manuscript ID - MATPR-D-20-06912), 2020.
- [5] C.Bharatiraja C* *et.al*, Design and Implementation of Power Efficient Image Compressor VLSI Design with Fuzzy Decision and Block Partition for WSN Systems , *Materials Today: Proceedings*, Elsevier, (Accepted - Article in Press– Manuscript ID - MATPR-D-20-06399), 2020.
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- [7] C.Bharatiraja C* *et.al*, A Real Time Centralized Monitoring and Implementation of Data Acquisition system in Photovoltaic Interfaced Micro grid, *Materials Today: Proceedings*, Elsevier, (Accepted - Article in Press– Manuscript ID - MATPR-D-20-09242), 2020.
- [8] C.Bharatiraja C* *et.al*, The Power Quality Measurements and Real Time Monitoring in the Distribution Feeders, *Materials Today: Proceedings*, Elsevier, (Accepted - Article in Press– Manuscript ID - MATPR-D-20-09241 2020.
- [9] C.Bharatiraja C* *et.al*, Deployment of IoT for Smart Home Application and Embedded Real-Time Control System, *Materials Today: Proceedings*, Elsevier, (Accepted - Article in Press– Manuscript ID - MATPR-D-20-08986), 2020.
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