

Appendix A

List of Publications

A.1 Journal papers

- **M. Raghuram**, Avneet K. Chauhan, and Santosh Kumar Singh. "Integrated High Gain Indirect Matrix Converter" *IEEE Journal of Emerging and Selected Topics in Power Electronics*, vol. 7, no. 3, pp. 1846 - 1853, August 2018.
- **M. Raghuram**, Avneet K. Chauhan, and Santosh Kumar Singh. "Extended Range of Ultra Sparse Matrix Converter Using Integrated Switched Capacitor Network" *IEEE Transactions on Industry Application*, vol. 55, no. 5, pp. 5406 - 5415, July 2019.
- **M. Raghuram**, Avneet K. Chauhan, Pilli Naresh Kumar and Santosh Kumar Singh. "Switched boost ultra sparse matrix converter with three vector modulation scheme" *IET Power Electronics*(In preparation).
- **M. Raghuram**, Avneet K. Chauhan, and Santosh K. Singh. "SVM based multilevel Z source matrix converter with reduced power devices" *IET Power Electronics*(In preparation)

A.2 Journal papers (not related to thesis)

- Avneet K. Chauhan, Sajid Kamal, **M. Raghuram**, Deepankar, Santosh Kumar Singh, and Xiaogang Xiong. "High Gain Quasi Mutually Coupled Ac-

tive Impedance Source Converter Utilizing Reduced Components Count” *IEEE Transactions on Industry Application* (Accepted).

- Avneet K. Chauhan, **M. Raghuram**, Santosh Kumar Singh, Xiaogang Xiong, and Motiur Reza. ”Analysis and Control of Switched Boost Inverter For Wide Duty Cycle Operation” *IEEE Access* vol. 7 pp. 45427 - 45439, April 2019.
- Avneet K. Chauhan, **M. Raghuram**, and Santosh K. Singh. ”Non-Zero Discontinuous Inductor Current Mode in Certain Z-source Converters” (**Letters**) *IEEE Transactions on Power Electronics*, vol. 33, no. 4, pp. 2809 - 2814, April 2018,
- Avneet K. Chauhan, **M. Raghuram**, Raja Ram Kumar, and Santosh K. Singh. ”Effects and Mitigation of NonZero DCM in BuckBoost Derived Hybrid Converter” *IEEE Journal of Emerging and Selected Topics in Power Electronics*, vol. 6, no. 3, pp. 1470-1482, 2018.
- Avneet K. Chauhan, Venkata R. Vakacharla, M. M. Reza, **M. Raghuram**, and Santosh Kumar Singh. ”Modified Boost Derived Hybrid Converter: Redemption Using FCM” *IEEE Transactions on Industry Applications*, vol. 53, no. 6, pp. 5893-5904, 2017.
- Venkata R. Vakacharla, **M. Raghuram**, and Santosh Kumar Singh. ”Hybrid Switched Inductor Impedance Source ConverterA Decoupled Approach” *IEEE Transactions on Industry Applications*, vol. 31, no. 11, pp. 7509 - 7521, 2016.

A.3 Conference papers

- **M. Raghuram**, Avneet K. Chauhan, and Santosh K. Singh. ”Integrated Modulation Technique for Switched capacitor Ultra Sparse Matrix converter” *IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, pp. 1-6, 2018.
- **M. Raghuram**, Avneet K. Chauhan, and Santosh K. Singh. ”Switched capacitor impedance matrix converter” *IEEE Energy Conversion Congress and Exposition (ECCE)*, pp. 1-5. 2017.

- Avneet K. Chauhan, **M. Raghuram**, and Santosh K. Singh. "Extended boost three phase matrix converter using switched capacitor topology having buck boost ability." *IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, pp. 1-4, 2016.
- Avneet K. Chauhan, M. M. Reza, **M. Raghuram**, and Santosh K. Singh. "High gain buck-boost matrix converter." *IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, pp. 1-6. IEEE, 2016.
- Avneet K. Chauhan, **M. Raghuram** and Santosh K. Singh. "Generalized Switched Inductor Cell Multilevel Converter." *IEEE International Transportation Electrification Conference (ITEC-India)*, pp. 1-6, 2017.
- Avneet K. Chauhan, **M. Raghuram**, Abhishek K Tripathi, Santosh K. Singh, Xiaogang Xiong, and Pan Xuewei."A High Gain DC-DC Converter based on Switched Capacitor/Switched Inductor Arrangement" *IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, pp. 1-6, 2018.
- Avneet K. Chauhan, **M. Raghuram**, Deepankar, and Santosh K. Singh. "Quasi Mutually Coupled Active Impedance Source Converter - Autotransformer Type Turns Ratio." *IEEE International Transportation Electrification Conference (ITEC-India)*, pp. 1-6, 2017.
- Avneet K. Chauhan, **M. Raghuram**, Raja Ram Kumar, and Santosh K. Singh. "Extended buck-boost derived hybrid converter." *IEEE Industry Applications Society Annual Meeting*, pp. 1-8, 2017
- Avneet K. Chauhan, **M. Raghuram**, Anjeet Verma, and Santosh K. Singh. "A Coupled Inductor Derived High Gain Boost Inverter" *IEEE Industry Applications Society Annual Meeting (IAS)*, pp. 1-8, 2018
- K. V. Shivaramakrishna, Avneet K. Chauhan, **M. Raghuram**, and Santosh K. Singh. "Sensorless control of induction motor using EKF: Analysis of parameter variation on EKF performance." *IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, pp. 1-4, 2016.