

Appendix A

List of Publications

A.1 Journal papers

- **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 6, no. 3 (2018): 1470-1482.
- **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 Volume: 33, Issue: 4, April 2018, pp: 2809 - 2814
- **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 Volume: 53, Issue: 6 (2017), pp: 5893-5904.
- Deepankar, **Avneet K. Chauhan**, and Santosh Kumar Singh. "Mutually Coupled L-Z Source Inverter for Hybrid Output Application" IEEE Transactions on Transportation Electrification(in Press) .
- 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 (in Press).

- **Avneet K. Chauhan**, and Santosh Kumar Singh. "A Cross Regulated Closed Loop Control for Hybrid L-Z Source Inverter." IEEE Transactions on Industry Application(in Press).
- 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(in Press).
- **Avneet K. Chauhan**, M. Raghuram, and Santosh Kumar Singh. "Analysis and Control of Switched Boost Inverter For Wide Duty Cycle Operation ." IET Power Electronics(Under Revision).
- **Avneet K. Chauhan**, M. Raghuram, and Santosh Kumar Singh. "Switched-LC based High Gain Converter with Lower Component Count" IEEE Transactions on Power Electronics(Under Review).

A.2 Conference papers

- **Avneet K. Chauhan**, M. Raghuram and Santosh K. Singh. "Generalized Switched Inductor Cell Multilevel Converter." IEEE International Transportation Electrification Conference, India.
- **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, India.
- **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. IEEE, 2017
- **Avneet K. Chauhan**, Mayank Jain, and Santosh K. Singh. "Modified hybrid L-Z source inverter A closed loop perspective." IEEE Industry Applications Society Annual Meeting, pp. 1-8. IEEE, 2017

- M. Raghuram, **Avneet K. Chauhan**, and Santosh K. Singh. "Switched capacitor impedance matrix converter." IEEE Energy Conversion Congress and Exposition (ECCE), pp. 1071-1075. IEEE, 2017
- Venkata R. Vakacharla, **Avneet K. Chauhan**, M. M. Reza, and Santosh K. Singh. "Boost derived hybrid converter: Problem analysis and solution." In Power Electronics, Drives and Energy Systems (PEDES), IEEE International Conference on, pp. 1-5. IEEE, 2016.
- **Avneet K. Chauhan**, M. M. Reza, M. Raghuram, and Santosh K. Singh. "High gain buck-boost matrix converter." In Power Electronics, Drives and Energy Systems (PEDES), IEEE International Conference on, pp. 1-6. IEEE, 2016.
- **Avneet K. Chauhan**, M. Raghuram, and Santosh K. Singh. "Extended boost three phase matrix converter using switched capacitor topology having buck boost ability." In Power Electronics, Drives and Energy Systems (PEDES), IEEE International Conference on, pp. 1-4. IEEE, 2016.
- M. M. Reza, **Avneet K. Chauhan**, S. N. Mahendra, and R. K. Srivastava. "No-load magnetic field analysis of double-sided linear tubular permanent magnet synchronous machine." In Power Electronics, Drives and Energy Systems (PEDES), IEEE International Conference on, pp. 1-5. IEEE, 2016.
- M. M. Reza, **Avneet K. Chauhan**, S. N. Mahendra, and R. K. Srivastava. "No-load magnetic field analysis of double-sided linear tubular permanent magnet synchronous machine." In Power Electronics, Drives and Energy Systems (PEDES), IEEE International Conference on, pp. 1-5. IEEE, 2016.
- 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." In Power Electronics, Drives and Energy Systems (PEDES), IEEE International Conference on, pp. 1-4. IEEE, 2016.
- **Avneet K. Chauhan**, Venkata R. Vakacharla, Anjeet Kumar Verma, and Santosh K. Singh. "Multiple PMSG fed Non-inverting buck-boost converter for HEVs." In

Power Systems (ICPS), IEEE 6th International Conference on, pp. 1-6. IEEE, 2016.

- Akash Deep, Naresh K. Pilli, **Avneet K. Chauhan**, and Santosh Kumar Singh. "Design and development of rapid prototype controlled PMSM drive." In Petroleum and Chemical Industry Conference/Industrial and Commercial Power Systems, IEEE IAS Joint (ICPSPCIC), pp. 134-139. IEEE, 2015.
- R. K. Soni, **Avneet K. Chauhan**, Raja Ram Kumar, and S. K. Singh. "Comparative study of SVM and hysteresis control strategies for grid side converter of PMSG." In India Conference (INDICON), Annual IEEE, pp. 1-6. IEEE, 2014.