

List of Publications

A. Books, Chapter in Books, Expository and Review Articles

- [1] Satish L and Ragavan K, 'Chapter 16 – Recent Advances in Localization of Winding Deformation in a Transformer', Fault Detection Edited by Wei Zhang, ISBN 978-953-307-037-7, InTech Publishers, March 2010.
- [2] Ragavan K, "An Efficient Solution to Generalized Model of a Transformer Winding and Localization of Discrete Changes Based on Measurements", PhD thesis, Indian Institute of Science, Bangalore, India, June 2006.

B. Papers in Refereed Journals

- [1] E. Naveen Kumar, V. Naveen Deepak and K. Ragavan, "A Compact Expression for Cogging Torque Considering Both Radial and Tangential Fields for Surface-Mounted PM Motors", IEEE Transactions on Magnetics, Vol. 54, No. 9, pp. 1-12, Sep. 2018.
- [2] Shah Krupa R and Ragavan K, "Assessing Mechanical Deformations in Two-Winding Transformer Unit using Reduced-Order Circuit Model", International Journal of Electrical Power and Energy Systems (Elsevier), Vol. 79, pp. 235-244, Jul. 2016.
- [3] Chandrasekaran S and Ragavan K, "Rapid Tracking of Grid Variables Using Prefiltered Synchronous Reference Frame PLL", IEEE Transactions on Instrumentation and Measurement, Vol. 64, No. 7, pp. 1826-1836, Jul. 2015.
- [4] Chandrasekaran S and Ragavan K, "Single-Phase Grid Voltage Attributes Tracking For the Control of Grid Power Converters", IEEE Journal of Emerging and Selected Topics in Power Electronics, Vol. 2, No. 4, pp. 1041-1048, Dec. 2014.
- [5] Prabhakar R. J. and Ragavan K, "STATCOM-based Wind-Solar-Hydro Electric Power System with Modified Real and Reactive Power Controls", International Journal of Emerging Electric Power Systems, Vol. 15, no. 1, Jan. 2014.
- [6] Shah Krupa R. and Ragavan K, "Estimation of Transformer Winding Capacitances through Frequency Response Analysis – An Experimental Investigation", International Journal of Emerging Electric Power Systems, Vol. 14, no. 6, Oct. 2013.
- [7] Prabhakar R. J. and Ragavan K, "Power Management Based Current Control Technique for Photovoltaic-Battery Assisted Wind-Hydro Hybrid System", International Journal of Emerging Electric Power Systems, Vol. 14, no. 4, Jul. 2013.
- [8] Chandrasekaran S and Ragavan K, "Reference Current Extraction through Sliding DFT Assisted Single Phase p-q Theory for Shunt Active Power Filter", International Journal of Emerging Electric Power Systems, Vol. 14, no. 2, pp. 149-158, May 2013.

- [9] K. Ragavan and L. Satish, "Construction of Physically Realizable Driving-Point Function Using FRA", IEEE Transactions on Power Delivery, Vol. 23, No. 2, Apr. 2008.
- [10] K. Ragavan and L. Satish, "Localization of Changes in a Model Winding based on Terminal Measurements: Experimental Study", IEEE Transactions on Power Delivery, Vol. 22, No. 3, Jul. 2007.
- [11] K. Ragavan and L. Satish, "An Efficient Method to Compute Transfer Function of a Transformer from its Equivalent Circuit", IEEE Transactions on Power Delivery, Vol. 20, No. 2, Apr. 2005.

C. Conference Publications

- [1] V. N. Deepak, E. Naveen, and Ragavan K., "Conformal Mapping Based Investigation of Airgap Fields in SPM Motors", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2018), IIT Madras, Chennai, India, Dec. 18-21, 2018.
- [2] U. Parth, E. Naveen, Ragavan K., "Assessment of Noise Reduction in Switched Reluctance Motor Using Conformal Mapping", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2018), IIT Madras, Chennai, India, Dec. 18-21, 2018.
- [3] Manju Bhashini and Ragavan K, "Magnetic equivalent circuit for surface mounted pm motor", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2018), IIT Madras, Chennai, India, Dec. 18-21, 2018.
- [4] Ashutosh Jindal and Ragavan K, "Sensorless control of switched reluctance motor based on a trapezoidal inductance profile", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2018), IIT Madras, Chennai, India, Dec. 18-21, 2018.
- [5] Naveenkumar E and Ragavan K, "Separation of Torque Components Using Frozen Permeability and Maxwell Stress Tensor", International Transportation Electrification Conference 2017, Navy Pier-Chicago, Illinois, USA, pp. 720-723, Jun. 22-24, 2017.
- [6] Aipathi Sai Kiran, Rahul Sadhwani and Ragavan K, "An experimental study of modified space vector modulation applied to quasi Z source inverters using FPGA", 2016 IEEE First International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016), Delhi Technological University, Delhi, India, Jul. 4-6, 2016.
- [7] Aipathi Sai Kiran and Ragavan K, "Direct torque control using switching table for induction motor fed by quasi Z-source inverter", 2016 IEEE First International

Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016), Delhi Technological University, Delhi, India, Jul. 4-6, 2016.

- [8] Rahul Sadhwani and Ragavan K, "A comparative study of speed control methods for induction motor fed by three level inverter", 2016 IEEE First International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016), Delhi Technological University, Delhi, India, Jul. 4-6, 2016.
- [9] Mohit Chand and Ragavan K, "DC-Link capacitor voltage balancing in Neutral Point Clamped inverters using Space Vector Modulation", Annual IEEE India Conference (INDICON), India, pp. 1-6, 2015
- [10] Shah Krupa R and Ragavan K, "Locating Mechanical Deformations in Electromagnetic Model of Transformer Winding", National Power Systems Conference (NPSC-2014), IIT Guwahati, Guwahati, India, Dec. 18-20, 2014.
- [11] Utkal Ranjan Mudali and Ragavan K, "Dynamic Modeling and Control of Shunt Active Power Filter", National Power Systems Conference (NPSC-2014), IIT Guwahati, Guwahati, India, Dec. 18-20, 2014.
- [12] Naveenkumar Endla and Ragavan K, "Analysis on Demagnetization Characteristics of Spoke Configured Interior Permanent Magnet Rotors", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2014), IIT Bombay, Mumbai, India, Dec. 16-19, 2014.
- [13] Chandrasekaran S and Ragavan K, "Adaptive Sampling Period Adjusted Sliding DFT for Synchronous Reference Frame PLL", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2014), IIT Bombay, Mumbai, India, Dec. 16-19, 2014.
- [14] Kislay Pankaj and Ragavan K, "Analysis of Back-EMF Waveshaping on Performance of PM Brushless Motors", Power and Energy Conference at Illinois, University of Illinois, USA, Feb. 22-23, 2013.
- [15] Prabhakar R. J. and Ragavan K, "Dual bi-directional voltage source converter control for composite wind-solar-hydro system in grid connected and islanded operation", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2012), CPRI, Bangalore, India, Dec. 16-19, 2012.
- [16] Chandrasekaran S and Ragavan K, "Phase locked loop technique based on sliding DFT for single phase grid converter applications", IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2012), CPRI, Bangalore, India, Dec. 16-19, 2012.
- [17] Chandrasekaran S and Ragavan K, "Sliding DFT assisted instantaneous method for

estimating reference current to active power filters”, 55th IEEE International Midwest Symposium on Circuits and Systems (IEEE MWSCAS), Boise, Idaho, USA, Aug. 17-19, 2012.

- [18] Ragavan K, Prathamesh J and Arava Pavan Kishore, “A novel magnetic-circuit based design approach for electric vehicle motors”, IEEE International Electric Vehicle Conference, South Carolina, USA, Mar. 4-8, 2012.
- [19] Prabhakar R. J. and Ragavan K, “Classical controller for coordination of wind-solar-hydro energy conversion systems in isolated region”, International Conference on Power and Energy Systems (ICPS), IIT Madras, Chennai, India, Dec. 22-24, 2011.
- [20] Shah Krupa R and Ragavan K, “Locating and assessing the severity of mechanical deformations in power transformer windings”, Centenary Conference-Electrical Engineering (CCEE), Indian Institute of Science, Bangalore, India, Dec. 15-17, 2011.
- [21] Chandrasekaran S and Ragavan K, “Harmonic mitigation through sliding DFT based single phase active power filter”, Centenary Conference-Electrical Engineering (CCEE), Indian Institute of Science, Bangalore, India, Dec. 15-17, 2011.
- [22] Prabhakar R. J. and Ragavan K, “Unified controller for reliable coordination of wind-solar-hydro energy conversion systems”, Centenary Conference-Electrical Engineering (CCEE), Indian Institute of Science, Bangalore, India, Dec. 15-17, 2011.