

## RESEARCH

### Recent Research Publications

S. De. and S. Debnath, "A wavelet based novel method for identification of harmonics in a signal", Michael Faraday IET International Summit, September 2015; pp. 515-521.

S. De, S. Nath, P. Sinha, S. Saha; "A virtual instrument for real time power quality measurement under non sinusoidal condition", ICSCCN 2011, pp. 140-144.

R. Chakrabarti, S. Chakraborty, R. Roy Chowdhury; "Comparative analysis of STATCOM and SVC operation in Electric Transmission Line", IJETAE, vol. 5, issue 8, August, 2015.

Maity, J., [Mitra, S.K.](#), [Majee, J.](#), [Chowdhuri, S.](#), [Bera, J.](#); "Development of an efficient photovoltaic MPPT Controller", [International Conference on Power and Energy \(ICPEN\), in NERIST](#), 28-29 Dec. 2012.

Moumita Mukherjee, Smita Sadhu "Track Following Control of Hard Disc Drive: A Survey", Michael Faraday IET International Summit: MFIIS-2015, September 12 – 13, 2015, Kolkata, India.

Moumita Mukherjee, Avijit Banerjee "Construction of Extended Das and Ghoshal Observer for a Class of Nonlinear Systems", Michael Faraday IET International Summit: MFIIS-2015, September 12 – 13, 2015, Kolkata, India.

Moumita Mukherjee, Suman Halder, "Stabilization and Control of Chaos Based on Nonlinear Dynamic Inversion." Energy Procedia, Elsevier, International Conference on Power Engineering, Computing and CONTROL, PECCON-2017, 2-4 March 2017, VIT University, Chennai, India.

N. R. Choudhury, A. Baug, A. Kumar, R. Ghosh & S. Dalai, "Identification and Localization of Series and Shunt Faults along a Transformer Winding using Rough Set Classifier aided with S-Transform", Proceedings of 19th National Power System Conference (NPSC-2016), IIT Bhubaneswar, December 2016.

A. Baug, N. R. Choudhury, R. Ghosh, B. Chatterjee & S. Dalai, "Localization of Single and Multiple Partial Discharge Sources based on Sequence of Arrival and Level of Amplitude of Acoustic Emissions", Proceedings of 19th National Power System Conference (NPSC-2016), IIT Bhubaneswar, December 2016.

S. Chatterjee, N.R. Choudhury & R. Bose, "Detection of Epileptic Seizure and Seizure-free EEG Signals Employing Generalized S-Transform", Accepted for publication at IET SMT.

Biswadeep Gupta Bakshi, Aparajita Dutta and Biswanath Roy "Development and Validation of dynamic conductance based wattage independent model for magnetic ballast driven non-retrofit CFLs", Light and Engineering, Moscow, vol. 24, no. 2, 2016, pp. 65-76.

Biswadeep Gupta Bakshi and Biswanath Roy, "Simulink simulation and experimental verification of magnetic ballast driven Compact Fluorescent Lamps", IEEE CALCON proceedings, November, 2014.

Biswadeep Gupta Bakshi and Biswanath Roy, "Development and simulation of dynamic conductance based wattage-independent Compact Fluorescent Lamp model in high frequency environment", IEEE CIEC proceedings, January, 2016, pp. 225-229.

Biswadeep Gupta Bakshi and Biswanath Roy “Development & simulation of dynamic conductance based High Intensity Discharge lamp model driven by Low Frequency Square Wave electronic ballast” , IEEE PIICON-2016, Bikaner, Rajasthan, November 2016.

Kaustav Nandy and Biswadeep Gupta Bakshi, “Efficient consumption of electric power using different optimization technique for domestic as well as commercial applications”, Proceedings of ‘Luminescence’, 1st National Student Congress on Illumination 2017, pp. 3-6.

B. Gupta Bakshi and B. Roy, “Wattage independent dynamic conductance model of Compact Fluorescent Lamps: Validation and Application in high frequency operation” , Lighting Research and Technology, UK, 2017. (Accepted for publication)

S. Pal and R. Barik, “Design, development and testing of an semi cylindrical capacitive sensor for liquid level measurement” , May 2010.

S. Sen, A.Chakraborty, R. Roy Chowdhury, S. Mukherjee, “Analysis, Simulation and Control of Direct Torque Control applied to three Phase Asynchronous Machine”, 2010.