

Dr.G.UMA

Professor, Department of Electrical and Electronics Engineering, College of Engineering
.Guindy, Anna University, Chennai

Research Degree

- ❖ Ph.D. in Power electronics from Faculty of Electrical Engineering, College of Engineering,
.Anna University)1995 - 2001(
.Title: Design and Implementation of controlled soft switched DC-DC Converters

List of publications in last five year

1. Santhi R,Uma G, Deiva Sundari P, "Active and Reactive power control of PMSG Fed Grid Connected Matrix Converter in wind Energy Systems", IET Power Electronics, Vol. 7, Issue 3, .pp. 591 - 603)2014(
2. Umamaheswari MG, Uma G, Annie Isabella L, " Analysis and design of digital predictive controller for PFC Cuk converter", Journal of Computational Electronics, published by IET. Vol. .pp. pp. 142-154)2014(,13
3. Deivasundari PS Uma G, Santhi R, "Experimental verification of Hopf bifurcation in pulse width .modulated inverter fed cage induction motor dirive system", IET Power Electronics,)2014(
4. Deivasundari P, Uma G, Ashita S, " Chaotic dynamics of a zero average dynamics controlled .DC-DC Cuk converter", IET Power electronics,)2014(
5. Deivasundari P Uma G Vincent C, Murali K, " Non-linear intermittent instabilities and their .control in an interleaved DC DC Converter", IET Power Electronics,)2014(
6. Shanthi P, Uma, G & Deiva Sundari, P, " Instantaneous power-based current control scheme for VAR compensation in hybrid AC/DC networks for smart grid applications", IET Power .Electronics, Vol. 7, Issue 5, pp. 1216 - 1226)2014(
7. Sowmmiya U, Uma G, "Effective performance and power transfer operation of current controlled WRIG based WES in hybrid grid", Renewable Energy, Vol. 101, pp. 1052-1063 .(2017)
8. Sowmmiya U, Uma G, "Control and maximum power tracking operation of hybrid excited variable Speed Induction generator", Electric Power System Research, Vol. 143, pp. 771-781 .(2017)
9. Sowmmiya U, Uma G, "Control and power transfer operation of WRIG based WECS in a hybrid .AC/DC microgrid", IET Renewable Power generation,)2017(
10. K. Padmanathan, Uma Govindarajan, Vigna K. Ramachandaramurthy, T. Sudar Oli Selvi, Multiple Criteria Decision Making (MCDM) Based Economic Analysis of Solar PV System with " Respect to Performance Investigation for Indian Market", Sustainability, Vol. 9, Issue 2, pp. 820 .(2017)

11. GEETHA.R, Dr.UMA.G, ARCHANA.S, "EXPLORATION OF INTERMITTENT INSTABILITIES IN A BOOST CONVERTER SUPPLIED FROM A RECTIFIER", Journal of Electrical .Engineering,)2017(
12. Archana Subramanian, Uma Govindarajan, " Analysis and mitigation of EMI in DC–DC converters using QR interaction", IET Circuits, Devices & Systems, published by IET. Vol. 11, .Issue 4, pp. 371 - 380)2017(
13. Shanthi, P, Uma, G & Keerthana, M.S, "Effective Power Transfer Scheme in a grid connected hybrid wind/photovoltaic system", IET Renewable Power generation, published by IET. Vol. 11, .Issue 7, pp. 1005-1017)2017(
14. Sowmmiya U, Uma G, "ANFIS based sensor fault tolerant control for hybrid Grid", IET .Generation, Transmission and Distribution,)2018(
15. Sowmmiya U, Uma G, "Sensor fault control for variable speed wind energy system in stand .alone DC microgrid ", international Transactions on Electrical Energy Systems,)2018(