

Collaborative Activity 2019-20

Title of the collaborative activity	Name of the collaborating agency with contact details	Name of the participant	Nature of the activity
Modelling, Simulation and Control of Fuel Cell Powered Laptop Computer Voltage Regulator Module	Vignan's Lara Institute of Technology and Science, Guntur-522213, India.	A.R. Vijay Babu	Research Publication
A Practical Technique to Measure Transformer Losses in High Frequency SMPS	Chirra Engineering	G. Srinivasarao	Research Publication
A Grid Connected Modular Multilevel Converter for Photovoltaic Energy Conversion	AU College of Engineering (A), Visakhapatnam 530003, AP, India.	K.Rachanajali	Research Publication
An Intelligent Fuzzy Controller Based UC/ Battery Operated Plug-in Hybrid Electric Vehicle/E-Car	TKR college of engineering, Hyderabad.	Dr.G.Srinivasa Rao.	Research Publication
Implementation of Modular Multilevel Inverter for Extraction of Wind Energy	AU College of Engineering (A), Visakhapatnam 530003, AP, India.	K.Rachanajali	Research Publication
An Energy Conservation Opportunity in Paper and Pulp Industry	KCG College of Technology, Chennai .	P.Mvenkatesh	Research Publication
Transient Stability Improvement of Wind Farm Integrated Power System Using STATCOM	R.S. Srinivas, ANU Collage of Engineering, Guntur.	Polamraju.V, S. Sobhan & M. Subbarao	Research Publication

Optimal Placement of Distribution Generation to Minimize Losses Using Backward Forward Sweep Method In Distribution System	ANU Collage of Engineering, Guntur.	Polamraju.V, S. Sobhan, M. Subbarao	Research Publication
Natural Ventilation of Building Using CFD Analysis	Sona college of Engineering and Technology, Salem, India.	Venkatesh P, M. Bharath Kumar, N.S Rao	Research Publication
Realizing Soft Switching in Flyback Converter by Appropriate Transformer Design and Comparison With Hard Switched Similar Converter	Chirra Engineering, A.P.	G. Srivivasa Rao	Research Publication
A Single Stage 1 KW Isolated Single Switch Active Power Factor Corrected Soft Switching AC-DC Converter	Chirra Engineering, A.P.	G. Srivivasa Rao	Research Publication
Speed Control of Permanent Magnet Synchronous Motor Using Field Oriented Control	R. Laxman, Scientist -D, RCI, DRDO.	Ch. Narasimha Rao	Research Publication
Evaluation of Fuzzy Logic and Proportional Integral Controllers For Hybrid Electric Vehicle	TKR college of Engineering, Hyd.	G.Srivivasa Rao	Research Publication
Simulation of Hybrid Electric Energy Storage System (HESS) for Hybrid Electric Vehicle for Power Applications	TKR college of Engineering, Hyd.	G.Srivivasa Rao	Research Publication
Optimal Reallocation of Generators Using Line Utilization Factor and L-Index with UPFC	G.V.Nagesh Kumar, JNTU Pulivendula.	P.V.S.Sobhan	Research Publication
2018-19			

Design of Single Neuron Fuzzy PID Controller for Suspension Control of Bearing Less SRM	Vignan's Institute of Information Technology (VIIT).	Polamraju V.S. Sobhan	Research Publication
Design and Implementation of an Ultra Capacitor Based Motion Control in Electric/Hybrid Electric Vehicle.	Siva Nagarajusirigiri, JNTU, Kakinada.	Dr G.SrinivasaRao and A.R.VijayBabu	Research Publication
Experimental Validation of an Improved Parametric Model for an Air Breathing Fuel Cell	PSG College of Technology, Coimbatore, TN., TKR College of Engineering and Technology,	Dr G.SrinivasaRao and A.R.VijayBabu	Research Publication
Design and Analysis of Torque Ripple Reduction in Brushless DC motor Using SPWM and SVPWM with PI Controller	Gadwala Sukumar, VITS, Hyderabad.	Cherukuri Naga NarasimhaRao	Research Publication
Design and Implementation of Ultra Capacitor Based Energy Management System in Hybrid Electric Vehicle	TKR College of Engineering and Technology.	G. Srinivasa Rao	Research Publication
Enhancing the Efficiency of a DC-DC Converter Used for Hybrid Electrical Vehicles to Suit Uphill and Downhill Terrains	TKR College of Engineering and Technology	Srinivasa Rao Gorantla	Research Publication
2017-18			
Current Trends In Ultra Capacitor/Battery Based Smart Transportation System	TKR College of Engineering and Technology	Dr G. SrinivasaRao	Research Publication

Higher Order Sliding Mode Control of Electromagnetic Suspension System	Vignan's Lara Institute of Technology & Science, Vadlamudi, Guntur.	Polamraju . V, S.Sobhan, and M. SubbaRao	Research Publication
Design and Analysis of Solar Fed BLDCM with Zeta Converter	VITS, Hyderabad.	Ch.N.Narasimha Rao	Research Publication
1-Phase Integrated Buck-Boost PFC Led Driver	Vignan's Institute of Information Technology (VIIT), Vishakapatnam, A.P.	Polamraju.Va and S.Sobhan	Research Publication
Energy Management and Control of Hybrid Electric Vehicle Using IGBT Based Boost Converter	VITS, Hyderabad TKR College of Engineering and Technology	Dr G. Srinivasa Rao	Research Publication
DSP Based Current Controlled Single Stage Single Phase Integrated Converter with External Compensating Signal for Class-C & Class-D Appliances	College of Engineering JNTUK, Kakinada, India.	M. Subba Rao	Research Publication
2016-17			
Effect of design and Operating Parameters on the Performance of Planar and Ducted Cathode Structures of an Air Breathing PEM Fuel Cell	SCMS School of Engineering and Technology, Palissery, Kerala, India.	Attuluri R. Vijay Babu and Gorantla Srinivasa Rao	Research Publication
Design of Enhanced Field Oriented Flux Control Technique for Grid Connected DFIG Under Low Voltage Fault Ride Through	GITAM University, Visakhapatnam, GITAM University, Bengaluru, India.	Polamraju and V.S.Sobhan	Research Publication

Modeling And Analysis of New Design Self Bearing Motor for Small and High Speed Applications	Vignan Lara Institute of Technology & Science, Guntur, Andhra Pradesh, India.	Polamraju. V.S.Sobhan and M. Subba Rao,	Research Publication
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