Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)



G. Saravana Ilango (SM'17) received the Graduate degree electrical and electronics engineering from the University of Madras, Chennai, India, in 2000, the Master's degree in power electronics and drives from Bharathidasan University, Tiruchirappalli, India, in 2001, and the Ph.D. degree in electrical engineering from the National Institute of Technology (NIT), Tiruchirappalli, India, in 2009. From 2001 to 2004, he was a Lecturer with the Noorul Islam College of Engineering, Kumaracoil, India. In 2006, he joined the Department of Electrical and Electronics Engineering, National Institute of Technology Tiruchirappalli, India, where he is currently an Associate Professor.

His research interests include FACTScontrollers, digital controllers, and renewable energy systems.

1.	Name	Dr. G. Saravana Ilango
2.	Designation	Associate Professor
3.	Office Address	Department of Electrical and Electronics Engineering National Institute of Technology, Trichirappalli-620 015
4.	Telephone (Direct) (Optional): Telephone: 3259 Extn (Optional): Mobile (Optional):	
5.	Email (Primary):gsilango@nitt.edu	Email (Secondary):
6.	Field(s) of Specialization	Power Electronics

7. Employment Profile

Job Title	Employer	From	То
Associate Professor, Dept. of EEE	NIT-Tiruchirappalli	March 2018	Till date
Assistant Professor, Dept. of EEE	NIT-Tiruchirappalli	March 2006	March 2018
Research Associate, Dept. of EEE	NIT-Tiruchirappalli	March 2005	March 2006
Lecturer, , Dept. of EEE	Noorul Islam college of Engineering, Kumarakoil	June 2001	July 2004

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	NIT- Tiruchirappalli	2009	-	Investigation of Internal Control Strategies for Effective Control of Power Flows with UPFC in a Power Transmission System
M.E.	Bharatidasan University	2001	74.93%	Power Electronics & Drives
B.E	Madras University	2000	74.59%	Electrical & Electronics Engineering
HSC	V.K.P. Hr. Sec. School	1996	84%	-
SSLC	V.K.P. Hr. Sec. School	1994	87.4%	-

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	То
Associate Dean	NIT-Tiruchirappalli	2012-10-10	23-11-2015
(P&D)			
Warden	NIT-Tiruchirappalli	2010-12-01	03-12-2012
(Beryl/Amber B)			
Deputy Warden	NIT-Tiruchirappalli	2005-07-20	20-06-2007
(Saphire)			
Staff Advisor for	NIT-Tiruchirappalli	2010-06-01	31-10-2010
Festember			
Department Project	NIT-Tiruchirappalli	2014-01-01	31-10-2017
Evaluation			
Committee member			
Coordinator for	NIT-Tiruchirappalli	2017-01-01	31-05-2017
Industrial Lectures			
Coordinator for	NIT-Tiruchirappalli	2017-01-01	31-05-2017
Internship/Industrial			
Training			

10. Academic/Administrative Responsibilities outside the University

	Position			Inst	ituti	on	From	То
PhD	Viva-Voce	External	CSI	Institute	of	Technology	2017	2017

Examiner	Kanyakumari		
Expert Lecturer	Kalasalingam University	2016	2016
Member of auditing the	Kalasalingam University	2011	2014
Quality of Question Paper			
Technical committee member	Noorul Islam Centre for	2012	2012
of IEEE Sponsored	Higher Education		
International Conference			
Board of Studies Member	Noorul Islam Centre for	2010	2010
	Higher Education		
Board of Studies Member	K. S. Rangasamy College of	2010	2010
	Technology		

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2009	Young Scientist Award	DST, Govt. of India

12. Fellowships

Year of	Name of the Fellowship	Awarding	From	То
Award		Organization	(Month/Year)	(Month/Year)
2017	Bhaskara Advanced Solar	DST- Indo-U.S.	April 2018	July 2018
	Energy (BASE) Fellowship	Science and		
		Technology Forum		
		(IUSSTF)		
2017	Young Faculty Research	DEITY, Govt. of	January 2018	January 2023
	Fellowship	India		-

13. Details of Academic Work

- (i) Curriculum Development
 - Introduced new course for B. Tech students- Power Electronics Application to Power Systems
 - Introduced new course for M. Tech students Digital Simulation of Power Electronics System
 - Introduced new laboratory for B. Tech students- Solar PV and Renewable Energy Laboratory
 - Developed new research laboratory- Power Converter Research Laboratory

(ii) Courses taught at Postgraduate and Undergraduate levels

Linear Integrated Circuits, Power Electronics, Flexible AC Transmission System, Digital Electronics, Power Electronics Application to Power Systems (New Course Introduced), Digital Simulation of Power Electronics System (New Course Introduced)

(iii)Projects guided at Postgraduate level

Title	Student Name	Year
A Study on Degradation of PV Modules	Nitheesh R	2017
Interleaved Boost Converter for Solar PV Applications	Aju Sivan	2017

		1
Series Active Ripple Port Inverter With Improved Source Utilization and Reduced Size	Habeeb Rahman	2017
Design and Analysis of an Isolated High Gain Converter for Solar Applications	Gourav Hazra	2017
Hybrid Series Photovoltaic Generation in SCIG Based Wind Farms	Navas Ali K	2016
Loss Minimization Control of Induction Motor Drive	Rajesh Kumar Padhy	2016
Control Strategies to Reduce Charging Discharging Cycle of BESS Using EDLC	Vijayanarayanan S	2016
Fault Analysis and Detection in PV Array	Hariharan R	2016
Analysis of Different Schemes for Enhancement of Power From a Seasonal Wind Farm	Kandala Naga Sai Uma Mahesh	2015
A Micro Inverter for PV Fed Grid System	Rai Rama Krishna	2015
Multi Phase Interleaved Boost Converter for SPV Applications	Chinthakindhi Vinay	2015
Control Scheme for Grid Connected Inverter	Kathiripalli Dhanashekhar Reddy	2015
Design and Development of a Bidirectional Converter for SPV Applications Using FPGA	Manoj R	2014
Design and Development of an Interleaved Boost Converter for SPV Applications	Nandam Srinivas	2014
Control Scheme for Bidirectional Converter in a Self Sustaining Low Voltage DC Nanogrid	RaiRamkrishna	2014
Controller for Isolated Operation of Laboratory Synchronous Generator and Feasibility Report for Implementation of DCS at Loktak Power Station	P. Elango	2013
Investigation of Autonomous and Non-Autonomous Operation of PV Fed Inverter to Grid Using FPGA	Raja Sekhar Kammala	2013
Battery Management Scheme for Isolated Power System	Nitesh Kumar Anand	2013
Investigation of Microgrid Using Droop Controller Scheme	Gananath Das	2013
Investigation of Power Flow Control in an Isolated Grid Using Battery Energy Storage System	Rahul Sukumaran	2013
Autonomous and Non-Autonomous Operation of PV Fed Inverter With An_ Island Feature Using FPGA	Mudiyula Srikanth	2012
Control of Three Level Inverter Fed Three Phase Induction Motor	V v N S S R M Krishna K	2012
Inphase Compensation Method for Voltage Sags and Swells Using DVR	Sasidhar Reddy	2011
Bi Directional Unity Power Factor Converter for PV Application Using FPGA	Nikhil J	2011
Current Controlled PV Fed Inverter With Anti-Islanding Features Using FPGA	M. Srikanth	2011
Power Conversion Interface for Wind Turbine Driven Self Excited Induction Generator	Y.Naresh	2011
Power Quality Conditioning Using Universal Custom Power Conditioner	K.S.V.Mahesh	2010

Three Phase Bidirectional UPF Converter for PV	B.Siva Kumar Reddy	2010
Applications		
Battery Charging and Discharging by Constant Current	Ramesh Pale	2010
and Constant Voltage Method		
Cost Effective Shunt Active Filter Using Resistance	P.Srinivasa Rao	2008
Emulation Technique		
Implementation of Various PWM Techniques for	J.Chelladurai	2008
FACTS		
Application Using DSP		
Development of DSP Based Control Schemes for UPFC	A.V.S.S.R.Sai	2007

(iv)Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Dura	ation	Status
Title of Project	Tunung Agency	From	То	Ongoing/ Completed
Development of Modular Multilevel Converter for Enhancing Power Quality and PV Output Power under Partial Shading Conditions in Grid- Connected PV System	SERB, Govt. of India	2018	2020	Ongoing
Design and Development of Solar PV Powered Cold Storage System	DST, Govt. of India	2016	2019	Ongoing
Detection of Partial Shading and Fault in a Solar Photovoltaic Systems	Deity Visvesvaraya Fellowship scheme	2017	2022	Ongoing
Electronification of Ground Water Control and Conveyor Systems in Mines	Ministry of Coal, Govt. of India	2017	2018	Ongoing
Dynamic Loading of Conveyor Drive Heads in Mines	NLC, Neyveli,	2015	2017	Completed
Electrical Performance Evaluation of TEG System in Boiler Flue Gas Duct	BHEL, Tiruchirappalli	2016	2017	Completed
Development of DC – DC Converter and Bi – Directional Converter for SPV applications	DEITY, Govt. of India	2012	2014	Completed
Design and Development	DST, Govt. of	2009	2012	Completed

of Improved Shunt Active Filter with Enhanced Signal Processing with Due consideration for	India			
Distorted Utility				
Power Electronics Lab	DEITY, G	Govt. 2008	2009	Completed
Infrastructure	of India			
Development				

15. Number of PhDs guided: 6

Name of the PhD	Title of PhD Thesis	Role(Supervisor/	Year of
Scholar		Co-Supervisor)	Award
M. Chakkarapani	Development of GMPPT algorithm with	Supervisor	2017
	partial shading detection and fault		
	identification scheme in PV system		
Sarojini Mary. S	Investigation of static reconfiguration	Co-Supervisor	2017
	technique of modules and power		
	electronic controller for solar photovoltaic		
	system		
Venkata Ram Raju	Certain control strategies for wind driven	Co-Supervisor	2016
Rudraraju	induction generators at low speed		
P. Srinivasa Rao	Investigation of module interconnection	Supervisor	2015
	schemes and control strategies for		
	photovoltaic system		
C. K. Aravind	Investigation of control strategies for	Supervisor	2015
	autonomous and non-autonomous		
	operation of wind energy conversion		
	system		
B. Indu Rani	Investigation of control techniques for	Supervisor	2013
	effective utilization of solar PV system		

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date	Title of	Level of	Role (Participant/ Event Organized by	Venue
(s)	Activity	Event	Speaker/ Chairperson,	
		(International/	Paper presenter, Any	
		National/	other)	
		Local)		

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/	Date (s)	Role	Venue
	National/ Local)			
National Power System	International	Dec 2018	Organizing	NIT
Conference NPSC-2018			Secretary	Tiruchirappalli
MHRD-GIAN program on	National	11 th to 15 th	Organizing	NIT
"SiC Devices Enabled Power		December,	Secretary	Tiruchirappalli
Converters Applications,		2017		
Opportunities and Challenges				
Workshop on "Photovoltaic	Local	27 th and	Organizing	NIT
Module Interconnection		28 th May,	Secretary	Tiruchirappalli
Schemes and MPPT		2017		
Implementation"				
Workshop on "Application of	Local	8 th to 10 th	Organizing	NIT
Power Electronics to		Feb., 2015	Secretary	Tiruchirappalli
Renewable Energy Systems				
and Micro Grids				
Workshop on "Power	Local	2^{nd} and 3^{rd}	Organizing	NIT
Electronics and		May, 2013	Secretary	Tiruchirappalli
Measurements"				
STTP on "Modeling of	Local	21 st and	Organizing	NIT
Electrical System Using		22 nd July	Secretary	Tiruchirappalli
Matlab/Simulink"				
Workshop on "Solar	Local	11 th to 22 nd	Organizing	NIT
Photovoltaics Fundamentals		Dec, 2011	Secretary	Tiruchirappalli
Workshop on "Power	Local	24 th and	Organizing	NIT
Electronics for Polytechnic		25 th June	Secretary	Tiruchirappalli
College Teachers"				

18. Invited Talks delivered

Topic	Date	Inviting Organization
Design of Grid Connected	2017	MEPCO SCHLENK College of
Photovoltaic System		Engineering, Sivakasi
Sustainable Energy System	2016	Kalasalingam University
Embedded Control for PV	2015	Annamalai University
Fed Electric Drive System		
Power Quality Issues in	2013	Thiagarajar College of
Contemporary and Future		Engineering
Power Networks		
Electrical Power Utilization	2010	K.S.R College of Engineering
and Energy Auditing		
FACTS Controllers in	2008	The Institute of Engineers

Power Systems		
Seminar on FACTS	2008	CSI Institute of Technology
Reactive Power Issues of	2007	World Ins_tute of Sustainable
Wind Farms		Energy
Recent Trends in FACTS	2006	MEPCO SCHLENK College of
Controller and Their		Engineering, Sivakasi
Applications in Power		
Systems		
Soft Computing Techniques	2006	Noorul Islam College of
for Controls Design		Engineering

19. Membership of Learned Societies

Type of Membership (Ordinary Member/	Organization	Membership No. with
Honorary Member / Life Member)		date
Senior Member	IEEE	90752271
Associate Member	Institute of Engineers	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
USA	3 months	Bhaskara Advanced Solar Energy (BASE) Fellowship

21. Publications

Separate file is attached