

Tara K. Sandipamu

Contact Information	Department of Electrical & Electronics Engineering, College of Engineering Jawaharlal Nehru Technological University Hyderabad Kukatpally, Hyderabad Telangana State 500085 INDIA	email: tarakalyani@gmail.com web: www.jntuh.ac.in
Appointment	Professor - January 2011 - till date Associate Professor - July 2003 – December 2010 HEAD, Department of EEE- October 2014 - till date Chair, EEE Board of Studies - October 2014 - till date	
Interests	Power Electronics, Control Systems, Fundamentals of Electrical Engineering, Energy Systems, Power Systems	
Education	Ph.D., Flexible AC Transmission Systems (FACTS), Department of Electrical & Electronics Engineering (2008), JNTUH, AP, India M.B.A., Human Resource Management, School of Management Studies, JNTUH, Hyderabad, AP, India. M.S., Industrial Drives and Control, Department of Electrical & Electronics Engineering(1998), JNTUH, Hyderabad, AP, India B.S., Electrical and Electronics Engineering(1995), Osmania University, Hyderabad, AP India	
Academic Experience	Associate Lecturer, Government, Polytechnic, Warangal, AP, India	Nov 1996 to July 2003
Journal Publications	S. Tara Kalyani, et. al., "PQ improvement by moderation of multilevel inverter controlling techniques and intensifying the performance of DVR", ISSN 1804-3119, vol.13, no.2, June 2015, pp. 107-114, DOI: 10.15598/aeee.v13i2.1244. S. Tara Kalyani, et. al., "PI and sliding mode control for permanent Magnet brushless DC motor", pp.497-502, International Journal of	

Innovative Technology and Research, vol.1, Issue.5, Aug-Sep-2013.

- S. Tara Kalyani, et. al., "Shunt capacitor position and size selection for radial distribution system using GA", pp.1345-1348, International Journal of Engineering and Technology, vol.2, No.8, Aug-2012.
- S. Tara Kalyani, et. al., "Adoption of Direct Power Control strategy for enhancement of Dynamic Voltage Restorer", ISSN 2231-590X, Vol.1, no.2, July-August 2012, pg 200-205.
- S. Tara Kalyani, et. al., "Simulating electric drive system with frequency control using Matlab/Simulink", pp. 1-9, Aditya International Journal of Research in Technology and Management, vol.1.
- S. Tara Kalyani, and B.Mouli Chandra, "Online identification and adaptation of rotor resistance in feedforward vector controlled induction motor drive", 978-1-4673-0934-9/12 ©2012 IEEE
- S. Tara Kalyani and B.Mouli Chandra, "Online Rotor Time Constant Tuning in Indirect Vector Control of Induction Motor Drive", International Journal on Engineering Applications (IREA), vol.xx. n.x
- S. Tara Kalyani, M. Chandra sekhar, V Siva Nagaraju, G. Joga Rao, "A Novel Multilevel Grid-Connected Inverter for Photovoltaic System", International Journal of Electrical Electronics and Telecommunication Engineering, vol.43, pp.1-5, 2012.
- S. Tara Kalyani and G. Tulasi Ram Das, "Performance analysis of UPFC connected to a network", International Journal of Applied Engineering and Research, vol. 3, no.1, pp. 161-172, 2008.
- S. Tara Kalyani and G. Tulasi Ram Das, "Simulation of Real and Reactive power flow control with UPFC connected to transmission line", Journal of Theoretical and Applied Information Technology, vol. 4, no. 1, pp. 16-22, January 2008.
- S. Tara Kalyani and G. Tulasi Ram Das, "Simulation of D-Q control system for Unified Power Flow Controller", Journal of Engineering and Applied Sciences, vol. 2, no. 6, pp. 10-19, December 2007.
- Conference Publications
- S. Tara Kalyani, et. al., "Field Test of cost-effective voltage source inverter for driving and induction motor", 17-20 December 2015, IEEE, INDICON-2015, New Delhi, India. (To appear)
- S. Tara Kalyani, et. al., "Evaluation of transformerless photo voltaic inverter", International Conference on Emerging Trends in Electrical,

Electronics & Instrumentation Engineering (EEI-2015), **Dubai, UAE.**

- S. Tara Kalyani, et. al., "Various Power Quality issues: Measurement of Flicker and mitigation of voltage sag", International conference on Intelligent and Efficient Electrical Systems (ICIEES – 2013), 12-14 December 2013, Coimbatore, India.
- S.Tara Kalyani and B.Mouli Chandra, "Online Estimation of Stator Resistance in Vector Control of Induction Motor Drive", International power conference on Power Electronics (IICPE) 6th to 8th December, 2012.
- S. Tara Kalyani, et. al., "Simulation of high power factor single stage LCC resonant converter", pp.54-58, International Conference on Engineering Technology and Management, 7-8 September 2012, Tirupati, INDIA
- S. Tara Kalyani, et. al., "Fuzzy controller based feed forward vector controlled induction motor drive with rotor flux observer", pp.128-134, International Conference on Electrical Engineering and Computer Science- April -2012.
- S. Tara Kalyani, et. al., "Design of a compact BLDC motor for High power, High Bandwidth Rotary Electro-Mechanical Actuator for Aerospace Application", 2011 Annual IEEE India Conference.
- S. Tara Kalyani and T. Sundeep Sunil, "RFID based semi-autonomous robot for Warehouse Applications", National Conference on Emerging Technologies & Tools in Mobile Phone Applications, 21-22 October, 2011.
- S. Tara Kalyani, et. al., "Damping of inter area and local modes of oscillations using interline power flow controller", National Conference NESTAEE-11, pp.69-76, August 29-30, 2011.
- S. Tara Kalyani, et. al., "Improvement of power quality in Distribution System using D-Statcom and LCL passive filter", National Conference NESTAEE-11, pp.13-21, August 29-30, 2011.
- S. Tara Kalyani, et. al., "PI controller for feed forward vector controlled induction motor drive", pp.88-92, International conference on enhancements in power electronics and controls, 24-25, November 2011.
- S. Tara Kalyani, et. al., "Study of FACTS controllers and applications", International Conference on Emerging Green Technologies (ICEGT

2011), pp. 107-108, July 27-30, 2011.

- S. Tara Kalyani and G. Tulasi Ram Das, "Transient analysis of UPFC connected to a transmission line", at National Conference on "Challenges of Power Sector in 21st Century", November 2007.
- S. Tara Kalyani and G. Tulasi Ram Das, "A comparison of control schemes for UPFC in stabilizing AC transmission system", Engineering Today Journal, August 2007.
- S. Tara Kalyani and G. Tulasi Ram Das, "Control and performance of UPFC connected to a transmission line", at IEEE-PES International Power Engineering Conference (IPEC-07), **Singapore**, December 2007.
- S.Tara Kalyani and G. Tulasi Ram Das, "Harmonic reduction by using higher pulse STATCOM in a transmission line", at International Conference (IEEE) on "Recent Applications of Soft computing in Engineering & Technology" RASIET-07, December 2007.
- S.Tara Kalyani and G. Tulasi Ram Das, "Transient stability enhancement with UPFC connected to a transmission line", at International Conference (IEEE) on "Recent Applications of Soft computing in Engineering & Technology" RASIET-07, December 2007.
- S. Tara Kalyani and G. Tulasi Ram Das, "Simulation and optimization in an AGC system after Deregulation", at International conference on "Recent Advancement and applications of computer in Electrical Engineering" March 2007, pp 1098-1103.

Scholarly
Work in
Progress

I like to do research in several areas of my interest: (i) Renewable Energy Sources (ii) Power Electronic Converters (iii) Flexible AC Transmission Systems (iv) Drive Technolgies etc.

Referee
Service

Reviewed several books and Journal Publications.

Professional
Memberships

Life Member of Indian Society for Technical Education (MISTE), India

Courses
Taught in
India

Undergraduate level:

Electromechanics (Lecture and Lab),

Switching Theory and Logic Design

Control Systems
Power Electronics (Lecture and Lab)
Switchgear and Protection
Power Systems
Simulation of Electric Circuits (PSCAD, MATLAB)
Utilization of Electric Energy
Electric Circuits and Analysis

Courses
Taught in
India contd.

Graduate level:
Analysis of Power Electronic Converters
Modern Power Electronics
Flexible AC Transmission Systems
DC Drives
Artificial Neural Networks

Service

When I worked at Government Polytechnic, Warangal, India, I was the faculty advisor for the diploma program. In addition to teaching, I had years of advising, and counseling students in Common Entrance Tests.

After coming to Jawaharlal Nehru Technological University, I served as Time Table coordinator and lab in-charge for both full time and part-time programs in the department.

I also worked as Assistant Director, Academic Staff College, University Grants Commission, JNTUH where I organized and conduct faculty training programs to the new faculty in Engineering in their respective areas. Later, I was promoted as Deputy Director, Academic Staff College.

After coming to JNTUH, I worked as Coordinator of Nodal Center, where the examination and evaluation process of 600 affiliated engineering colleges is monitored and controlled.

In JNTUH, I served in various committees both at college and also at university level in the capacity of member. I have been member of the purchase committee, the awards committee, and also have been involved in faculty affairs committee. I have been an active member of

faculty-search committees, to recruit and ratify faculty of affiliated colleges of JNTUH.

Currently serving as the HEAD of the department, I am the Chair, Board of Studies (BoS), to design the course curriculum for Electrical & Electronics Engineering students. I Chair Industry Institute Interaction Cell (IIIC) to develop need based projects to serve the industry.

As a part of academic activities, I co-chaired National Systems Conference-2014, India, ICRMAV-2015. I was session chair in EEI-2015, **Dubai, UAE.**

At college of Engineering, JNTUH as a faculty, I organized remedial classes for less-fortunate students, who equally deserved in campus and future placements. As outreach, apart of academics I organize medical camps, with students in nearby villages.

Nationality **INDIAN**