

## Resume



**Name** : Dr. PRABANDHANKAM.SANGAMESWARA RAJU

**Date of Birth** : 01-08-1954

**Designation & Institution** Professor  
Electrical and Electronics Engg. Dept.  
S.V. University of Engineering  
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### **Academic Qualifications:**

Course	Specialization	Institution	Year
LEE (Diploma)	Electrical Engineering	Board of Technical Education A.P., M.B.T.S Govt. Polytechnique, Guntur	1975
B.Tech	Electrical Engineering	S.V.U. College of Engg Tirupati.	1980
M.Tech	Power Systems Operation & control	S.V.U. College of Engg., Tirupathi.	1987
Ph.D	Synthesis of Time Optimal And Fuzzy Control of Nuclear Power Reactors	S.V. University, Tirupathi	2004

**Professional Experience:**

**Teaching Experience** :

Organization	Designation	Period
S.V.U.COLLEGE OF ENGINEERING- TIRUPATI	ASST.PROFESSOR	1985-1995
	ASSOCIATE PROFESSOR	1996-2006
	PROFESSOR	2007-CONTINUING

- Other experience** : Worked as Principal in CR Engineering college,  
Tirupathi (1 Year)  
Worked as Vice- principal in Narasarao peta Engineering  
college, NARASARAO PET (1 Year)
- Thesis guided** : M.Tech - 55  
: B.Tech - 70
- Publications** : 85 +
- Research Interests** : Power System Operation and Control
- Research** : Presently 12 research Students are working for Ph.D.,
- Laboratory Experience** : All Electrical Machines & Power System Labs.
- Memberships** : 1. Fellow of Institution of Engineers (FIE), India  
2. Life member of ISTE
- Other Activities** : 1. Syllabus preparation for B.Tech & M.Tech  
2. Worked as BOS Member for UG  
3. BOS Chairman for PG and PASS  
4. Student councillor  
5. Worked as NSS Officer.  
6. worked as Warden/Deputy Warden/  
Additional chief warden  
7. Working as Chief Superintendent of SVUCE
- Reviewer / Observer** : For Ph.D. Thesis & University Examinations
- Award Received** : Best citizen of India 2007  
Special appreciation certificate 1996 on Independence day and  
Republic day for working in Social Service activities.

## Referees

- : 1. Dr. V.C. Veera Reddy  
Professor, Dept. of EEE  
S.V.U. College of Engg;  
S.V. University, Tirupati. – 517 502.
2. Dr. A.Prabhakar  
Principal,  
S.V.U. College of Engg;  
S.V. University, Tirupati. – 517 502.

## SUMMER / WINTER SCHOOLS :

1. I.S.T.E. Summer School on **“Power system Operation & Control”**, from June 1-20, 1987, IIT, Delhi.
2. I.S.T.E. Summer School on **“Application of Microprocessors to Power System Protection & Control”**, 15 – 28 May '87, R.E.C. Calicut.
3. Workshop on **“Recent Trends in Power System Protection”**, 11 – 13 March 1989, J.N.T.U., Anantapur.
4. I.S.T.E. Winter School on **“Developments in Computer based Control Systems”**, 26 December 1990 to 1 January 1991. M.B.M. College of Engineering, Jodhpur.
5. I.S.T.E. – A.I.C.T.E. Winter School on **“Quality Control & Reliability Engineering in Y2K+”**. 27 December 1999 to 8 January 2000. S.V.U. College of Engineering, Tirupati.
6. Central Institute for Rural Electrician (C.I.R.E) organized a continued professional development programme on **“Conservation of Energy in Agricultural Pump Systems”**, June 8 – 10, 2000, S.V.U. College of Engineering Tirupati.
7. **“N.S.S. Training & Orientation Programme”**. April 10 – 21, 1989, Andhra University, Waltair.
8. Working as secretary, Institution of Engineers, India from January 2013.
9. Member and Fellow of Institution of Engineers, India past 25years.

## LIST OF INTERNATIONAL JOURNALS PUBLISHED

1. "Automatic Generation control of TCPS based Hydrothermal system under Open market scenario: A fuzzy logic approach" International journal of Electrical power and Energy system, April-2009.
2. Improvement of dynamic performance of AGC under open market scenario Employing TCPS and A.C-D.C Parallel Tie-line. International journal of recent trends in engineering, Vol. 1, No. 3 May 2009.
3. Neural Network Controller for UPS inverter, International journal of Electronic & Electrical Engineering, Vol.3, No. 4, March-2009, PP:122-130.
4. "Three-phase active power filter controller for balanced and unbalanced non-linear load." *International Journal of Engineering Science 2* (2010).
5. "Comparison of performance of tcps and smes in automatic generation control of reheat thermal system." *Acta Electrotechnica et Informatica* 10.4 (2010): 69-74.
6. Design and implementation of Hybrid Active Filter; International Journal of computer applications (0975-8887); Vol.8, Issue: 10, October-2010.
7. Zero-Voltage and Zero current switching converters; International Journal of computer applications (0975-8887); Vol.8, Issue: 10, October-2010.
8. A Novel Hybrid controller for automatic generation control of hydrothermal system under traditional environment.; International journal of distributed energy resources, Vol. 6 Number. 4 (2010), PP: 281-293.
9. "Particle swarm optimization based approach for loss reduction in unbalanced radial distribution system." *International Journal of Engineering Science* Vol. 3 No.11 November 2011.
10. Impact of network reconfiguration for loss allocation of unbalanced radial distribution systems using particle swarm optimization, international journal of electrical engineering applications research issn: 2249 – 6548; , vol 02, issue 02; august-december 2011
11. "Robust Tuning of PID Controller to Optimize Bilateral Contracts in Deregulated Power System Using Evolutionary Algorithms." *IJERA*; Vol. 1, Issue 2 (2011), pp.165-172.

12. "Optimization of Feedback Controller in Restructured Power System Using Evolutionary Genetic Algorithms." *International Journal of Engineering Science* 3 (2011).
13. "AGC CONTROLLERS TO OPTIMIZE LFC REGULATION IN DEREGULATED POWER SYSTEM." *International Journal* 1 (1963). *International Journal of Advances in Engineering & Technology*, Nov 2011. Vol. 1, Issue 5, pp. 278-289.
14. "MAXIMIZATION OF ELECTRICAL ENERGY IN PV CELL USING MPPT UNDER PARTIAL SHADED CONDITIONS WITH UNIFORM ISOLATIONS." *International Journal of Advanced Engineering Research and Studies IJAERS/Vol. I/ Issue I/October-December, 2011/98-101*
15. EZ-SOURCE FED INDUCTION MOTOR DRIVE: AN EXPERIMENTAL INVESTIGATION." *International Journal of Engineering Science and Technology (IJEST)* Vol. 3 No. 8 August 2011
16. CASE STUDY OF EMBEDDED EZ-SOURCE INVERTER AND COMPARISON WITH Z-SOURCE INVERTER- *International journal of advances in engineering and sciences- Vol:2,Issue 12 (2011)*
17. "ON CHIP IMPLEMENTATION OF Z-SOURCE FED INDUCTION MOTOR DRIVE" *International journal of advances in engineering and technology ; Vol 6, Issue 1 (2011)*
18. "comparison of z source inverter fed induction motor with traditional source inverter systems"- *Research journal of applied sciences, Engineering and Technology*, Vol 3, Issue 3, 2011.
19. "Feasible AGC Controllers to Optimize LFC Regulation in Deregulated Power System Using Evolutionary Hybrid Genetic Firefly Algorithm." *J. Electrical Systems* 8.4 (2012): 459-471.
20. "Robust Fractional Order PID Controller to Optimize Bilateral Contracts in a Deregulated Power System." *International Electrical Engineering Journal (IEEJ)* Vol. 3 (2012) No. 3, pp. 817-826 ISSN 2078-2365
21. "Neuro-Fuzzy Five-level Cascaded Multilevel Inverter for Active Power Filter." *ACEEE International Journal on Electrical and Power Engineering* 3.1 (2012).
22. "PRACTICAL IMPLEMENTATION OF FSC OF A 400KV TRANSMISSION LINE-CASE STUDY." *Journal of Theoretical and Applied Information Technology* 36.2 (2012).

23. "CONTROL OF DC CAPACITOR VOLTAGE IN A DSTATCOM USING FUZZY LOGIC CONTROLLER." *International journal of theoretical and applied engineering* (July 2012).
24. "LOAD FLOW BASED RELIABILITY ASSESSMENT OF A REAL TIME RADIAL DISTRIBUTION SYSTEM-CASE STUDY." *UNIASCIT*, Vol 2 (3), 2012, 292-300
25. "Performance Analysis Of Multi Converter Unified Power Quality Conditioner For Power Quality Improvement." (*IJERA*) ;Vol. 2, Issue 4, July-August 2012, pp.452-456
26. "Performance Analysis of Dynamic Voltage Restorer (DVR) using Sinusoidal and Space vector PWM Techniques." *International Journal of Engineering* 1.3 (2012).
27. "Enhancement of Power Quality by Optimal Placement of Dstatcom For Voltage Sag Mitigation Using Ann Based Approach." *International Journal of Soft Computing and Engineering (IJSCE)* ISSN: 2231-2307, Volume-2, Issue-3, July 2012
28. Pi & Fuzzy Logic Controller Based Multi Converter Unified Power Quality Conditioner; *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249 – 8958, Volume-1, Issue-5, June 2012
29. "IMPACT OF VOLTAGE REGULATORS IN UNBALANCED RADIAL DISTRIBUTION SYSTEMS USING PARTICLE SWARM OPTIMIZATION." *International Journal of Advances in Engineering & Technology* (Jan 2012).
30. "POWER FLOW ANALYSIS OF THREE PHASE UNBALANCED RADIAL DISTRIBUTION SYSTEM." *International Journal of Advances in Engineering & Technology*, March 2012
31. Neuro-Fuzzy controller and Bias voltage generator aided UPQC for power quality maintenance, *International journal of Computer theory and Engineering*, May-2012.
32. Load flow based reliability assessment of a real time distribution system case study, *Universal Applied science, computers information and technology*, ISSN:2250-0987, Vol:2,2012, PP:292-300.
33. "RELIABILITY IMPROVEMENT OF RADIAL DISTRIBUTION SYSTEM WITH INCROPORATING PROTECTIVE DEVICES-CASE STUDY." Feb. 2013. ISSN: 2231 – 6604 Volume 4, Issue 2, pp: 60-74
34. "Modeling and Analysis of SVC, TCSC, TCPAR in Power Flow Studies." *International journal of Emerging technology and science*, Volume 3, Issue 1, January 2013

35. "NEURO-FUZZY CONTROLLER BASED MULTI CONVERTER UNIFIED POWER QUALITY CONDITIONER." *International Journal of Electrical Engineering Applications Research – IJEEAR* ; Vol 04, Issue 01; Jan-Feb 2013
36. Automatic Train Operation And Control Using MATLAB; *International Journal of Electrical and Electronics Engineering & Telecommunications (IJEETC)*; ISSN: 2319 – 2518; Vol. 2, No. 1, January 2013; PP: 150-155.
37. "EHVAC Substation reliability evaluation using simulation approach- case study; *Journal of Electrical Engineering (JEE)*; ISSN: 1582-4594. (Accepted for Publication)
38. Evolutionary Hybrid Genetic-Firefly algorithms for optimizing LFC regulation in a deregulated power system: *Journal of Electrical Engineering (JEE)*; ISSN: 1582-4594. , Vol. 13, No. 1, 2013, PP: 132-139.
39. Evolutionary Hybrid Genetic-Firefly Algorithm for Global Optimization; *International Journal of Computational Engineering and Management (IJCEM)*; ISSN: 2230-7893; Vol. 16 Issue 3, May 2013, PP: 37-45.
40. *Comparison of pi, fuzzy & neuro-fuzzy controller based multi converter unified power quality conditioner; international journal of electrical engineering & technology (ijeet), 4(2), 136 - 154.-2013*
41. Neuro-fuzzy controller based multi converter unified power quality conditioner with pq theory; *international electrical engineering journal (ieej) vol. 4 (2013) no. 1, pp. 926-938, ISSN 2078-2365*
42. SIMSCAPE model of Photovoltaic Cell; *International journal of advanced research in Electrical, Electronics and instrumentation engineering, ISSN:2320-3765, Vol.2, Issue-5 May-2013.*
43. Modeling and Parameter Extraction of PV Modules Using Genetic Algorithms and Differential Evaluation; *IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 5, Issue 6 (May. - Jun. 2013), PP 37-44.*
44. Reliability Indices Evaluation of a Real Time Rural Radial Distribution Feeder, *IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 5, Issue 6 (May. - Jun. 2013), PP 01-15*

45. Load Forecasting For Practical Power Systems by Using Artificial Neural Networks and Classical Techniques – A Case Study ; *International Journal of Computational Engineering Research*||Vol, 03||Issue, 5||May-2013,PP:56-65.  
and some more ...

**LIST OF INTERNATIONAL / NATIONAL CONFERENCES PUBLISHED**

1. *Research Methodology for the Life Evaluation of Hollow Polymer Insulators for High Voltage Applications*; 16<sup>th</sup> National Power Systems Conference (NPSC- 2010), December, 2010; PP: 687- 692.
2. *Optimization of Market Based Contracts for AGC Using Evolutionary Genetic algorithm*: Centenary Conference, 2011 - Electrical Engineering, Indian institute of science, Bangalore (CCEE-2011), December 2011; PP: 347-352.
3. *Optimization of Traditional and Deregulated Multi-Area AGC System Using Evolutionary Genetic Algorithms*; *International Conference on Adaptive Technologies for Sustainable growth (ICATS-2011)*; June 2011; PP: 85-92.
4. "Markov based Reliability evaluation of 220KV transmission system for on single area control" in NCCCIT-2011; april -2011.
5. "Simulation of Z-source inverter fed induction motor and comparison with traditional source inverter systems" RTPPEP-2011.
6. "Comparative analysis of induction motor with Z source inverter and EZ source inverter systems", International conference on Nano science, Engineering and advanced technology-2011.
7. "Hardware design of Low Harmonic Content inverter for 3 phase induction motor drive" RPACE-2011.
8. "Reliability assessment of substation using cutset method and monte carol simulation", in NCECEP-2012.



9. "Load flow based reliability assessment of a real time distribution system case study" NCES-2012; september-2012.
10. "Enhancement of transient stability using TCSC and TCPS" in NCECEP-2012, June-2012.
11. *Regulation of LFC Ancillary Service with integrated GAS Power plant in a Hydro Thermal Deregulated Power System; International Conference on Advances in Power Conversion and Energy Technologies (IEEE/APCET- 2012; Indexed in IEEE xplore), ISBN:978-1-4673-2040-5; August 2012; PP: 217-223.*
12. "Multilevel inverter for power quality improvement using intelligent systems." *Advances in Engineering, Science and Management (ICAESM), 2012 International Conference on.* IEEE, 2012.
13. "Modelling of Radial Distribution system with Embedded series facts devices using a decoupled line flow based algorithm". An international conference on advances in engineering and technology (ICEAET-2012)
14. "Steady state modelling of TCPAR, SSSC, TCSV, TCPAR, UPFC, IPFC for load flow analysis", IEEE Conference on Research and Development Prospects on Engineering and Technology-2013. March-2013.
15. "Capacitance based reliability indices of real time radial distribution feeder: IEEE sponsored conference on computation of power Energy information and communication (ICCPEIC-2013), June-2013.

and some more...

**SOCIAL SERVICE:**

1. Workshop on **“Mass Programme for Functional Literacy”** held at S.V. University from 11 – 13 September 1989.
2. **“Youth for Rural Development / Special Camping Programme”** held at S.V. University from 23-10-89 to 1-11-89.
3. **“National Level Special Training Programme for Youth”** held at Alipiri, Tirupati from 23-7-88 to 1-8-88.
4. A special Camping Programme on **“Leadership / Tree Plantation”** at Tirupati from 3-11-90 to 12-11-90.
5. **“Janma Bhoomi Programme”** from 3-12-1999 to 12-1-2000 at Pathapeta in Pulicherla Mandal, Chittoor District.
6. **“Janma Bhoomi Programme”** from 1-1-1997 to 8-1-1997 at Vijayapuram Mandal. Chittoor District.
7. **“Blood Donation Programme”** on 2-10-1989 at S.V.R.R. Hospital, Tirupati.
8. Worked as Chairman for S.V.U.School Education Committee, Tirupati for 2 years.
9. Donated Blood as regular activity & in emergency conditions.
10. Participated in several other social service activities, in and around Tirupati.

**Dr.P.Sangameswara Raju**  
**Professor, EEE Department**  
**S.V.U College of Engineering,**  
**S.V.U, Tirupathi**  
**and**  
**Secretary, Institution of Engineers, India**  
**Tirupati Local Chapter.**