

PERFORMA FOR TEACHING STAFF PROFILE



1. **Name** : Dr. S. SIVANAGARAJU
2. **Designation** : Associate Professor
3. **Department** : Electrical & Electronics
4. **Date of Birth** : 01-07-1970
5. **Date of Joining JNTU Service** : 29-10-1999
6. **Residential address** :
7. **Phone No.** **Mobile:**9949136668 **Office:**0884-3205511
8. **Mail_id** : sirigiri70@yahoo.co.in
9. **Blood Group** :
10. **Qualifications** : M.Tech(IIT-KGP), Ph.D
11. **Experiance** : 10 Years
 - a) **Teaching** : 10 Years
 - b) **R&D** : Nil
 - c) **Industrial** : Nil
12. **Field of Specilization** : Power Systems
13. **Subjects of interest (teaching)** : Electrical Distribution Systems, Power System Analysis
14. **No. Of Scholers**
 - a) **Awarded with Ph.D** : 02
 - b) **Working for Ph.D** : 24
15. **No.of M.Tech Projects Guided** : 30
16. **Awards Received**
 - The Pandit Madan Mohan Malaviya memorial prize award, 16th December 2004, Mumbai, India
 - Best Paper Prize award given by Institute of Engineers (India), 16th December 2004, Mumbai, India
 - Best Paper Presentation award for the paper presentation in 28th National Systems Conference at Vellore Institute of Technology, Vellore, India, 18th December 2004.

- **Biography** is published in who is who in Science and Technology in 9th Edition, USA.

17. Text Books

- S.Sivanagaraju, V.Sankar, “Electric Power Distribution and Automation”, *Dhanpat Rai & Co*, Pvt. Ltd, Delhi, India.
- S.Sivanagaraju, S.Satyanarayana, “Power System Transmission and Distribution”, *Pearson Education (Singapore) PTE Ltd*, India Branch, Delhi, India.
- S.Sivanagaraju, G.Sreenivasan, “Power System Operation and Control”, *Pearson Education (Singapore) PTE Ltd*, India Branch, Delhi, India.
- S.Sivanagaraju, L.Devi, “Control Systems Engineering”, *New Age International Publishers*, NewDelhi, India.
- S.Sivanagaraju, B.Rami Reddy, “Power System Analysis”, *Lakshmi Publication*, New Delhi, India.

18. **Mumbership of Professional Bodies** :Nil

19. **Members Cirriculum development** :Nil

20. Member of Editorial Board

Member of review committee and Editorial Board of National Journal of Electrical Engineering in I-Manger Publications, Tamilnadu from October 2007.

21. Reviewer

- IEE Proceedings-C (Generation Transmission and Distribution)
- International Journal of Emerging Electric Power Systems.
- International Journal of Emerging Electric Power System.
- International Journal of Electrical Power Components and Systems.

22. **No. of Conferences/ Workshops** : 03

Organized as Coordinator/ Chairman

(enclosed the list in Annexure-I)

23. **No. of Publications(enclosed the list in Annexure-II)**

I. Journals

a) **Nationals** : 09

b) **Internationals** : 20

II. Conferences

a) National : 21

b) International : 13

24. No. of Course/Conferences Attended

(enclosed the list in Annexure-I:)

a) Refresher courses : 04

b) Orientation courses : 01

c) Conferences : 05

25. R&D Projects : Nil

26. Countries visited on Academic activity : Nil

Annexure-I

Coordinator

- National Conference on **Recent Advances in Electrical Engineering -2004** conducted by Jawaharlal Nehru Technological University College of Engg. (Autonomous), Anantapur.
- **National workshop on “Distribution and Automation-Recent Trends-(DART-2005)** conducted by Jawaharlal Nehru Technological University College of Engg. (Autonomous), Anantapur.
- National Conference on **Recent Advances in Electrical Engineering -2008** conducted by Jawaharlal Nehru Technological University College of Engg. (Autonomous), Anantapur.

Annexure-II

Publications

(i)National Journals

- 1) S.Sivanagaraju, et.al, “Capacitor Placement in Radial Distribution Networks for Loss Reduction”, **Paritantra A National Journal of Systems Science and Engineering**, Vol.7, No.1, Aug.2002, pp.12-20.
- 2) S S.Sivanagaraju, et.al, “Voltage Stability Analysis for radial distribution systems”, **Institution of Engineers (India)**, Vol .84, Dec.2003, pp.166-172.
- 3) S.Sivanagaraju, et.al, “An approach to place the TCSC optimally for improved power transfer capability, **Journal of Electrical Engineering**, Vol.1, No.1, 2007, pp.10-12.
- 4) S.Sivanagaraju, et.al “On-Line Network Reconfiguration and Service Restoration in Radial Distribution Systems Using Genetic Algorithm” **Journal on Software Engineering**, Vol.1, No.4, April-June 2007, pp.39-45
- 5) S.Sivanagaraju, et.al, “Design of dual mode controller for automatic generation control under open market system, **Journal of Electrical Engineering**, Vol.1, No.1, 2007, pp.46-51.
- 6) S.Sivanagaraju, et.al, “An Efficient Algorithm for Optimal radial distribution System Planning”, **Journal of Electrical Engineering**, Vol.1, No.1, 2007, pp.71-78.
- 7) S.Sivanagaraju, et.al, “A partical swarm optimization for optimal capacitor placement in unbalanced radial distribution system, **Journal of Electrical Engineering**, Vol.1, No.1, 2007, pp.79-90.
- 8) S.Sivanagaraju, et.al, “on-line network reconfiguration and loss reduction in distribution system using Aritificial Neural Networks” **Journal of system science and engineering**, system society of India ,16th volume Nov.2007,
- 9) S.Sivanagaraju,et.al, “ANN based load flow studies in radial distribution system” **Journal of engineering to-day** , Vol- IX , February 2007, pp. 16-20

(ii)International Journals

- 1) S.Sivanagaraju, et.al, "Optimal conductor selection for radial distribution systems", **International Journal of Electric Power Systems Research**, Vol.63, No.2, Sept.2002, pp.95-103.
- 2) S.Sivanagaraju, et.al, "Voltage stability analysis for radial distribution networks with and without compensation", **International Journal of Water and Energy**, Vol.60, No.1, 2003, pp.48-53
- 3) S.Sivanagaraju, et.al, "A simple method for feeder reconfiguration and service restoration of distribution networks", **International Journal Electrical Power Components and Systems**, Vol.32, 2004, pp.883-892
- 4) S.Sivanagaraju, et.al, "Enhancing voltage stability of radial distribution systems by network reconfiguration", **International Journal of Electrical Power Components and Systems**, Vol.33, 2005, pp.539-550.
- 5) S.Sivanagaraju, et.al, "A New Method for Network Reconfiguration of Radial Distribution Systems for Loss Minimization", **International Journal of Water and Energy**, Vol.62, No.3, 2005, pp.56-62.
- 6) S S.Sivanagaraju, et.al, "An Efficient Genetic Algorithm for Loss Minimum Distribution System Reconfiguration", ", **International Journal of Electrical Power Components and Systems**, Vol.34,No.3, March 2006, pp.249-258.
- 7) S.Sivanagaraju, et.al, "Improving the Maximum loading by Optimal Conductor Selection of Radial Distribution Systems" **International Journal of Electrical Power Components and Systems**, Vol 34, No. 7,July 2006, pp.747-757.
- 8) S.Sivanagaraju, et.al, "A Novel Load Flow Method for Radial Distribution Systems with Voltage Dependent Load Models", **International Journal of Electrical Power Components and Systems**, Vol.35, 2007, pp.539-551.
- 9) S.Sivanagaraju, et.al " Loss minimization by incorporation of UPFC in load flow studies", **International Journal of Electrical and Power Engineering**, Vol.1,No.3, 2007, pp.321-327.
- 10) S.Sivanagaraju, et.al, "Functionality of UPFC in stability Improvement", **International Journal of Electrical and Power Engineering**, Vol.1,No.3, 2007, pp.339-348.

- 11) S.Sivanagaraju, et.al, “Power quality improvement using D-STATCOM and DVR”, **International Journal of Electrical and Power Engineering**, Vol.1,No.3, 2007, pp.368-376.
- 12) S.Sivanagaraju, et.al, “ Enhancement of voltage stability in radial distribution systems using Genetic Algorithm”, **International journal of Water and Energy**, Vol.64, No.3,sep.2007, pp.29-35.
- 13) **S.Sivanagaraju, et.al**, “A simulated annealing based hydrothermal system with thyristor controlled phase shifter under open market system”, **ARNP Journal of Engineering and Applied Sciences**, Vol.2,No.3,2007, pp.17-23.
- 14) .Sivanagaraju, et.al,“Transient stability improvement using UPFC and SVC”, **ARNP Journal of Engineering and Applied Sciences**, Vol.2,No.3,2007, pp.38-45.
- 15) S.Sivanagaraju, et.al,“ Network reconfiguration for load balancing in radial distribution systems using Genetic Algorithm”, **International journal of Electrical Power Components and Systems**,Vol.36, No.1, January 2008.
- 16) S.Sivanagaraju, et.al “A Novel Method for Optimal Conductor Selection of Radial Distribution Feeders Using Fuzzy Evolutionary Programming”, **International Journal of Electrical and Power Engineering**, Vol.2,No.1, Jan 2008, pp.6-10.
- 17) S.Sivanagaraju, et.al , “Automatic Generation Control of TCPS Based Hydrothermal System under Open Market Scenario: A Fuzzy Logic Approach” **International journal of AIML**, Vol 7, No.1, June 2007, pp 47-54.
- 18) S.Sivanagaraju, et.al , “A modified Genetic Approach to Hydrothermal system with thyristor controlled phase shifter under open market system”, **International Review of Electrical Engineering**, Vol. 2, No.4, August 2007, pp507-514.
- 19) S.Sivanagaraju, et.al “A Fuzzy-Genetic Algorithm for Optimal Capacitor Placement in Radial Distribution Systems”, **ARNP Journal of Engineering and Applied Sciences**, Vol.2, No.3, June2007, pp.28-32
- 20) S.Sivanagaraju, et.al , “Enhancing the Maximum loadability of Radial Distribution System by Network Reconfiguration” **Accepted for publication in the international journal of Power and Energy systems.**

iii) National Conferences

- 1) S.Sivanagaraju, et.al, “ Radial distribution System planning”, Proc. of the **National Conference** on QR Power, 13-15 Oct.2000, Nagpur, India, pp.66-71.
- 2) S.Sivanagaraju, et.al, “New method of load flow solution for radial distribution networks”, Proc. of All India Seminar on Power System: Resent Advances and Prospects in 21st Century, 17th Feb. 2001, Jaipur, India, pp. 226-233.
- 3) S.Sivanagaraju, et.al, “ A new Approach for optimal capacitor placement in distribution systems”, Proc. of the National Conference on Recent Trends in Electrical Energy Conservation and Management, 2-3 March 2002, Annamalai University, India pp.257-265.
- 4) S.Sivanagaraju, et.al, “Distribution network reduction for voltage stability analysis ”, Proc. of the National Conference on Recent Trends in Electrical Energy Conservation and Management, 2-3 March 2002, Annamalai University, India, pp.125-132.
- 5) S.Sivanagaraju, et.al, “Network reconfiguration for minimizing the losses of radial distribution networks”, Proc. of 26th National System Conference, Nov.18-19, 2002, Hyderabad, India, pp.8.1- 8.8.
- 6) S.Sivanagaraju, et.al, “A simple load flow method for radial distribution systems with voltage dependent load models”, All India Seminar on Electric Power System Operation: New Challenges, Oct.2003, Hyderabad, India, pp. 4.3-4.10.
- 7) S.Sivanagaraju, et.al, “Identification of Capacitor Position In A Distribution System” National seminar on Emerging Trends in Power System Operation & Control- ETPSOC conducted by Department of Electrical & Electronics Engineering of GVP college of Engineering during 27-29th December2003.
- 8) S.Sivanagaraju, et.al, “A novel load flow method for radial distribution systems” Proc. of National Power Systems Conference, IIT Madras, India, 2-4th December 2004, pp.140-144.
- 9) S.Sivanagaraju, et.al, “A loop based load flow method for weakly meshed distribution networks” Proc. of the 28th NSC-2004 on December 16-18, 2004, pp.196-199.

- 10) S.Sivanagaraju, et.al, "Capacitor allocation in radial distribution systems for loss reduction using Fuzzy logic", Proc. of the 28th NSC-2004 on December 16-18, 2004, pp.185-187.
- 11). S.Sivanagaraju, et.al, "Genetic algorithm to reactive compensation in radial distribution networks." Proc. of National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives, BAIT, Tamilnadu, India, 25-26th March 2005, pp.565-570
- 12) S.Sivanagaraju, et.al, "A novel method for loss minimization in radial distribution systems using network reconfiguration." Proc. of National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives, BAIT, Tamilnadu, India, 25-26th March 2005, pp.642-646.
- 13) S.Sivanagaraju, et.al, "Stability analysis of recurrent neural networks" UGC sponsored National conference on soft computing techniques applied to power systems Engineering" March 19th & 20th, 2005, Annamalai university, Chidambaram, pp. 83 -91,
- 14) S.Sivanagaraju et.al, " A novel method for optimal radial distribution system planning" Proc. of National Conference on Modern Aspects of FACTS and its Applications, Kumaraguru College of Technology, Tamilnadu, India, 29-30th August 2003, pp.37-43.
- 15) S.Sivanagaraju et.al, " Long transmission lines with optimal location of shunt facts devices" Proc. of National Conference on Modern Aspects of FACTS and its Applications, Kumaraguru College of Technology, Tamilnadu, India, 29-30th August 2003, pp.44-50.
- 16) S.Sivanagaraju et.al, " The effect of valve parameters on unavailability of multi bridge HVDC system" Proc. of National Conference on Soft Computing and Machine Learning for Signal Processing, Control, Power and Telecommunications (NCSC_2006), India, 24-26th March 2006, pp.58-62.
- 17) S.Sivanagaraju et.al, " Feeder reconfiguration for load balancing" Proc. of National Conference on Soft Computing and Machine Learning for Signal Processing, Control, Power and Telecommunications (NCSC_2006), India, 24-26th March 2006, pp.151-156.

- 18) S.Sivanagaraju et.al, “ Interval arithmetic technique for analysis of radial distribution networks” Proc. of National Conference on Soft Computing and Machine Learning for Signal Processing, Control, Power and Telecommunications (NCSC_2006), India, 24-26th March 2006, pp.260-266.
- 19) S.Sivanagaraju et.al, “A novel load flow solution for radial distribution network including voltage dependent load models” Proc. of National Conference on Soft Computing and Machine Learning for Signal Processing, Control, Power and Telecommunications (NCSC_2006), India, 24-26th March 2006, pp.345-353.
- 20) S.Sivanagaraju et.al, “ Challenging in power quality management in steel industries” Proc. of National Conference on Soft Computing and Machine Learning for Signal Processing, Control, Power and Telecommunications (NCSC_2006), India, 24-26th March 2006, pp.586-589.
- 21) S.Sivanagaraju, et.al, “Detection of high impedance faults in low-voltage distribution feeders using Artificial neural networks”, Institution of engineers sponsored National conference on Emerging trends in mechatronics and instrumentation drives, June 29 to 30th 2007, S.V University, Tirupati.

(iv) International Conferences

- 1) S.Sivanagaraju, et.al, “Optimal conductor selection for radial distribution system”, Proc. of the International Conference on Energy, Automation and Information Technology (EAIT-2001), 10-12th Decemeber-2001, IIT, Kharagpur, India, pp.441-444.
- 2) S.Sivanagaraju, et.al, “A novel approach in radial distribution systems for cost of loss reduction”, Proc. of the International Conference on Computer Applications in Electrical Engineering Resent Advances (CERA-2001), 21-23rd February 2002, IIT, Roorkee, India, pp.102-110.
- 3) S.Sivanagaraju, et.al, “A novel method for distribution system planning”, International conference on ICET-2003, KIIT, Bhubaneswar, Orissa, India, 19-21st October 2003, pp.3.

- 4) S.Sivanagaraju, et.al, "A simple approach for optimal capacitor placement in distribution systems using genetic algorithms" International conference on ICET-2003, KIIT, Bhubaneswar, Orissa, India, 19-21st October 2003, pp. 7.
- 5) S.Sivanagaraju, et.al, "Reconfiguration of radial distribution systems for loss reduction", International conference on ICET-2003, KIIT, Bhubaneswar, Orissa, 19-21st October 2003,pp. 12.
- 6) S.Sivanagaraju, et.al, "Load estimation in unbalanced distribution networks by using WLS method", International conference on PICA-2006, Nagpur, India, 11-14th July 2006.
- 7) S.Sivanagaraju, et.al, "Optimal capacitor switching in a distribution system using Artificial Neural Networks", International conference on PICA-2006, Nagpur, India, 11-14th July 2006.
- 8) S.Sivanagaraju, et.al, "System identification using adaptive control systems", International conference on PICA-2006, Nagpur, India, 11-14th July 2006.
- 9) S.Sivanagaraju, et.al, "Network reconfiguration and loss reduction in distribution networks using Artificial Neural Networks", International conference on Resource Utilization and Intelligent Systems, Kongu Engg. College, Tamil Nadu , India, 4-6th January 2006, pp.444-450.
- 10) S.Sivanagaraju, et.al, "Load balancing in distribution system through network reconfiguration by using artificial neural networks", First international conference on "Frontier Technologies- Need for industry, business and education" during 6-8th September, 2006 at Housur, India, pp 161-167.
- 11) S.Sivanagaraju, et.al, "An approach for islanding of Power System Networks to Avoid Blackouts", International Conference on Modeling and Simulation, Coimbatore, 27-29 August 2007.
- 12) S.Sivanagaraju, et.al, "Ant colony system algorithm for automatic generation control of hydrothermal system under open market scenario" accepted for publication and presentation in ICTES international conference held on Dec.22-23rd, 2007 at M.G.R University, Chennai.
- 13) S.Sivanagaraju, et.al, "Minimization of losses in radial distribution system using HVDS", IEEE conference on power electronics , drives and energy systems-2006, IIT, Delhi, Dec.12-15th, 2006, PP.4B-13.

Annexure-IV

Training Programs Attended

Details of Programs	Duration	Place
Internet and Java	09-9-2000 to 08-10-2000	I.S.T.E, J.N.T.U.College of Engineering, Anantapur
Reliability Engg. and Applications to Power Systems	11-12-2000 to 23-12-2000	I.S.T.E, J.N.T.U.College of Engineering, Anantapur
Value Education	17-01-2005 to 12-02-2005	UGC-ASC, J.N.T.University, Hyderabad
Intelligent Techniques and Their Applications in Engineering	14 th -15 th Feb.2007	TEQIP, J.N.T.U.College of Engineering, Anantapur
Training Program on Development of Embedded Systems Laboratory	19-02-2007 to 2-03-2007	TEQIP, J.N.T.U.College of Engineering, Anantapur

Conferences /Seminars Attended for Paper Presentation

Details of Conference	Duration	Place
25 th National System Conference	13-15 th December2001	PSG College of Technology, Coimbatore, India
International Conference on Energy, Automation and Information technology(EAIT)-2001	10-12 th December2001	IIT, Kharagpur, India
Annual Paper Meeting(Institution of Engineers(India))	1 st November2002	BIT's, Ranchi, India
28 th national systems conference	16-18 th December 2004	VIT, Vellore, India.
National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives 2005	25-26 th March2005	BAIT, Tamilnadu, India