

Name: Dr J Viswanatha Rao

Designation: Professor

Department: EEE

Mail I'd: viswanatharao_j@vnrvjiet.in

Experience (in years): Teaching: 19 Research: 12 Others(if any, specify): Nil



1. Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization |
|------|------------------------|-----------------|----------------|
| 1 | B.Tech | 1997 | EEE |
| 2 | M.Tech | 2005 | EPS |
| 3 | Ph.D. | 2010 | EE |

2. Teaching and Learning:

2.1. Teaching Interests: all electrical subjects

2.2. Novel Teaching & Learning Techniques adopted: Student centered Learning

2.3. Involvement in curriculum updating / Design: Acted as BOS Chairman in SCET

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:

3.2. CCA/ECA Organized: Organized Blood donation camp

3.3. CCA/ECA participated: Participated in Tree Plantation in Harita Haram from TS Govt.

3.4. Counseling and Mentoring Activity: Acted as Counselor in SCET

3.5. Committees involved in:

Department level: Acted as BOS Chairman, Academic committee chairman

Institute Level: Acted as IQAC Convener, Dean Academics

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:10

4.2 Attended:20

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: 5

5.2. Articles/Chapterspublished inBooks: NIL

5.3. Bookspublishedassingleauthororaseditor: Nil

5.4. Projects Guided:

a) UG: 30

b) PG: 19

5.5. Research Interests: Electrical Power Systems, Artificial Intelligence &Application to Electrical Distribution System.

5.6. Ph.Dstudents :

a) Enrolled: 3

b) Submitted: NIL

c) Awarded: NIL

5.7. Papers published in reviewed journals: **21**

| S.No | Title of the Paper | Journal Name Vol.No.PP | ISBN/ISSN No. | Impact Factor/ Citation Index | National/ International |
|------|---|--|-----------------|----------------------------------|----------------------------|
| 1 | Multi-area Multi-fuel Economic–Emission Dispatch Using a Generalized Unified Power Flow Controller Under Practical Constraints | Springer’s Arabian Journal of Science and Engineering(AJSE) | ISSN 1319-8025 | 0.367 | International |
| 2 | “Cost/Environmentally Compromised Dispatch for Cascaded Hydrothermal System Using Artificial Bee Colony Algorithm” | published IEEJ Trans. On Electrical and Electronics Engineering, | ISSN: 1931-4981 | 0.213 | International |
| 3 | Reactive Power Compensation in Distribution Network using FC-TCR & Voltage Regulation using TCVR | Published International Journal of Technology & Sciences | ISSN: 2320-8007 | 1.85 | International |
| 4 | Adaptive Weight Improved Discrete Particle Swarm Optimization for Optimal Distribution Network Reconfiguration | Accepted for International Journal of Computational and Theoretical Nano Science | ISSN: 1546-1955 | 1.66 | International |
| 5 | “Combined Energy Economic and Environmentally Conscious Operation of Hydrothermal Power System Using Artificial Bee Colony Algorithm” | Journal of Basic and applied engineering research, | ISSN: 2350-0077 | 0.227 | International |
| 6 | A Fast Power Flow Solution of Radial Distribution Networks | International Journal of Electrical Engineering | ISSN:0974-2158 | 0.020 | International |
| 7 | Analysis of Radial Distribution Systems by optimal placement of DG using DPSO | International Journal of Engineering Research & Technology | ISSN:2278-0181 | 0.87 | International |

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|----|--|--|----------------|--------------|---------------|
| 8 | Analysis of Optimal AVR Placement in Radial Distribution Systems using Discrete Particle Swarm Optimization | International Journal of Innovative system design and Engineering | ISSN:2222-2871 | 6.54 | International |
| 9 | Matlab/Simulink Model of wind farm to weak grid connection | International Journal of Engineering Research & Technology | ISSN:2278-0181 | 0.91 | International |
| 10 | Optimal Conductor Selection in Radial distribution systems Using Discrete Particle Swarm Optimization | World Journal of Modeling and Simulation(WJMS) England,UK | ISSN:1746-7233 | 0.91 | International |
| 11 | Optimal Capacitor Placement in Radial Distribution Systems using Discrete Particle Swarm Optimization | International Journal of Electronic and Electrical Engineering | ISSN:0974-2174 | 0.14 | International |
| 12 | Discrete Particle Swarm Optimization to network reconfiguration for loss reduction and load balancing | International Journal of Electrical Power Components and systems, Tayler & Francis group USA | ISSN:1532-5008 | 0.47 | International |
| 13 | A Loop based load flow method for weakly meshed distribution network | International journal of Asian Research Publication Network | ISSN:1819-6608 | 0.962 | International |
| 14 | Capacitor Placement in Balanced and Unbalanced radial distribution systems by Discrete Particle Swarm Optimization | Journal of International Congress for Global Science and Technology ICGST-ACSE, Egypt | ISSN:1687-4811 | 0.962 | International |
| 15 | Voltage Regulator Placement in Radial distribution systems using Discrete Particle Swarm Optimization | journal of International review of electrical engg.,(IREE) Italy | ISSN:1827-6660 | 1.36 | International |
| 16 | Closed Loop Control of Inverter/Converter Topology for Electric Vehicles | published in International journal of Scientific Engineering and | ISSN:2319-8885 | - | International |

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|----|---|--|----------------|---|---------------|
| | | Technology Research | | | |
| 17 | Hybrid Renewable Energy Sources Based Active Power Filter with Predictive Fuzzy Controller to Improve Power Quality | published in International journal of Scientific Engineering and Technology Research | ISSN:2319-8885 | - | International |
| 18 | An Efficient Load Flow Method for Weakly Meshed and Radial Distribution Systems | I-manager's journal of Electrical Engineering | ISSN:0973-8835 | - | National |
| 19 | Analysis of Voltage Stability Indices for Radial Distribution Systems | I-manager's journal of Electrical Engineering | ISSN:0973-8835 | - | National |
| 20 | Vector Based Load flow technique for Balanced and Unbalanced radial distribution Networks | I-manager's journal of Electrical Engineering | ISSN 2088-8708 | - | National |
| 21 | A Particle Swarm Optimization for optimal capacitor placement in Un-Balanced radial distribution system | I-manager's journal of Electrical Engineering | ISSN 2231-1963 | - | National |

5.8. Papers presented at National / International Journals: 14

| S.No | Title of the Paper | Names of the Conference/ Seminars | National/ International | Period |
|------|---|---|--------------------------|--|
| 1 | Sepic Converter fed BLDC Drive with Closed Loop Speed Control | IEEE International Conference on Signal Processing, Communication, Power and Embedded System(SCOPES-2016) | International Conference | Centurion University of Technology and Management, on 3 rd -5 th October 2016, Odisha, India (ISSN:2278-0181). |
| 2 | Environmental Sustainability in Hydrothermal System Using ABC Algorithm: A Statistical Comparison | 12 th IEEE India International Conference (INDICON 2015) on Electronics, Energy, Environment Communication, Computer, Control (E ³ -C ³) | International Conference | Organized by Department of Electrical Engineering, Jamia Millia Islamia, New Delhi, India |
| 3 | Fuzzy Control Based APF with DG Integration for Power Quality Improvement | IEEE International Conference on Signal Processing, Communication, Power | International Conference | Centurion University of Technology and Management, on |

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|----|---|---|--------------------------|--|
| | in Distribution System | and Embedded System(SCOPES-2016) | | 3 rd -5 th October 2016, Odisha, India (ISSN:2278-0181). |
| 4 | RES Fed High Gain DC-DC Converter with Closed Loop Control for Induction Motor Drive | IEEE International Conference on Signal Processing, Communication, Power and Embedded System(SCOPES-2016) | International Conference | Centurion University of Technology and Management, on 3 rd -5 th October 2016, Odisha, India (ISSN:2278-0181). |
| 5 | Optimal Placement of SPV based DG for Loss Reduction in RDSsystem Using DSA | International Conference on Emerging Trends in Engineering, Technology and Science(ICETETS-2015), 2 nd - 4 th April 2015 | International Conference | Mall Reddy Institute of Engineering & Technology Secunderabad |
| 6 | Combined Energy Economic and Environmentally Conscious Operation of Hydrothermal Power System Using Artificial Bee Colony Algorithm | 4 th International Conference on “Applied Sciences, Environmental Engineering and Clean Energy Technologies for Sustainable Development” (ASECET-2015) | International Conference | “KrishiSanskriti” on 1 st and 2 nd August, 2015 at Jawaharlal Nehru University, New Delhi, India. |
| 7 | Modelling and Speed Control of Linear Induction Motor | International Conference on Energy Efficient Technologies for Sustainability ,April 7 th -9 th 2014 | International Conference | St.Xavier’s Catholic College of Engineering Nagarcovil, Tamilnadu |
| 8 | Optimal Capacitor Placement Analysis using Ant Colony Optimization | International Conference on Science, Technology and Management ICSTM-2013, August 16 th & 17 th 2013 | International Conference | SITAMS CHITTOR |
| 9 | Analysis of Conductor Selection for Loss Reduction in RDS using DPSO | International Conference on Engineering, Technology and Management ICETM-July2013, | International Conference | WAIRCO Colombo SRILANKA |
| 10 | Method for Load Flow solution of Radial Distribution Systems | International Conference on MEMS and Optoelectronics Technologies ICMOT-2010 | International Conference | Swarandhra College of Engineering & Technology Narasapur |

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|----|--|---|--------------------------|---|
| 11 | Analysis of Radial Distribution Systems by Optimal Placement of DG using ACO | National Conference on Emerging Technologies in Electrical and Electronics Engineering (NCETEST-2013) | National Conference | Sri Vishnu Engineering College for women Bhimavaram, Andhra Pradesh |
| 12 | Design and Demonstration of Microcontroller based solar radiation Tracker for the efficient use of Photovoltaic Panels | National Conference on Emerging Trends in Engineering Science and Technology(NCETEST -2013) | National Conference | All Saints College of Technology Bhopal |
| 13 | A Power Flow Method for radial distribution systems | National Conference Govt Engineering college Salem, Tamilnadu. March 2006 | National Conference | Government college of engineering SALEM Tamilnadu |
| 14 | Optimal capacitor Placement analysis using ant colony optimization | International Conference on Nano Science, Engineering & Advanced Computing ICNEAC-2011 | International Conference | Swarandhra College of Engineering & Technology Narasapur |

5.9. Sponsored research Projects: NIL

| S.No | Title | Agency | Period | Grant amount | Ongoing / Completed |
|------|-------|--------|--------|--------------|---------------------|
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5.10 Consultancy Projects: NIL

| S.No | Title | Agency | Period | Sanctioned Amount | Ongoing / Completed |
|------|-------|--------|--------|-------------------|---------------------|
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6. Awards / Honors received:

- * Received **IET CLN Dr. A P J Abdul Kalam Inspiring Teacher Award** for the year 2014-15 on April 10th 2016 in Chennai.
- * Received **Best Teacher award “University Award to Meritorious Teachers-2009”** from Hon’ble Vice Chancellor “Sri Dr.AllamApparao” JNTU Kakinada.
- * **Associate Editor** for “International Journal of Conceptions on Electrical Engineering (IJCElecE)”, World Academic-Industry Research Collaboration Organization WAIRCO.

7. Motto: Motivate the students to get success in their life.