

**Dr Sri Niwas Singh**, *FIEEE (USA), FNAE, FIET (UK), FIE(I), FIETE(I)*

**Vice Chancellor, Madan Mohan Malviya University of Technology Gorakhpur**

*On leave from:* Professor (HAG), Department of Electrical Engineering,

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## Educational Qualifications

- Ph.D. Electrical (Power Systems), 1995, Indian Institute of Technology, Kanpur (India).  
*Topic: Voltage Security and Loss Minimization Studies in Electric Power Systems.*
- M. Tech. Electrical (Power Systems), 1989, Indian Institute of Technology, Kanpur (India). Cumulative Performance Index (CPI) 10.0/10.0. **Got First Rank in M. Tech. (Power Systems).**  
*Topic: Performance Study of GTO Inverter in HVDC Link*
- B. Tech. Electrical Engineering, 1987, Kamla Nehru Institute of Technology Sultanpur, India. Marks obtained 82.87 %. **Got 2nd rank in the Class of 30.**

## Professional Experiences (See Annexure - A)

<i>Duration</i>	<i>Organization</i>	<i>Position</i>
Aug. 8, 1988-July 1995	U.P. State Electricity Board, Lucknow (UP), India	Assistant Engineer, Planning
July 1995 – June 13 1996	U.P. State Electricity Board, Lucknow (UP), India	Assistant Engineer, Operation
June 14, 1996 - Jan. 1, 2001	University of Roorkee, India	Assistant Professor
May 1997 – Aug. 1997	Asian Institute of Technologyv(AIT), Thailand	Post Doctoral Fellow
Dec 18, 1998- March 31, 2000	H.K. Polytechnic University, Hong Kong	Research Fellow
Jan. 2, 2001 - April 4, 2002	AIT, Thailand	Assistant Professor
April 5, 2002 – Feb. 7, 2008	Indian Institute of Technology (IIT), Kanpur	Associate Professor
June,05-Dec,05 + Dec 06- June 07	University of Duisburg-Essen, Germany	Humboldt Research Fellow
July 2, 2009 - June 30, 2010	Denmark Technical University, Lyngby, Denmark	Visiting Professor
Feb 8, 2008 – July 31-2014	IIT, Kanpur, India	Professor
Aug. 1, 2014 to date (on leave)	Indian Institute of Technology, Kanpur, India	Professor (Higher Academic Grade)
<b>April 28, 2017 to date</b>	<b>Madan Mohan Malviya University of Technology Gorakhpur</b>	<b>Vice-Chancellor</b>

## Research Interests

- Power System Restructuring /Deregulation
- HVDC Transmission & FACTS Technology
- Wind and Solar Power
- Power System Dynamics, Operation and Control
- Distributed Generation and Smart Grid
- AI Application in Power Systems.

## Publications (See Annexure - B)

Refereed Journals	: 176
Conferences/ Seminars etc	: 228
Discussions/Short papers	: 12
Invited Papers/Lectures	: 12
Technical Reports	: 25
Papers Communicated	: 3

## Citation (Up to May 29, 2017)

<u>Citation indices</u>	<u>All</u>	<u>Since 2012</u>
Citations	6930	4621
h-index	41	34
i10-index	131	100

## Books, Book Chapters & Monograph

### Book:

- \* *Electric Power Generation, Transmission and Distribution*, Prentice Hall of India, (ISBN-978-81-203-3650-8), (First Edition: 2003, 2<sup>nd</sup> Edition: 2008).
- \* *Basic Electrical Engineering*, PHI Learning Pvt Ltd, India, (ISBN-978-81-203-4188-3), 2011.

### Book Chapters:

1. B. Singh, S.N. Singh and E. Kyriakides, *Intelligent Control of Power Electronic Systems for Wind Turbine*, in *Wind Power Systems: Applications of Computational Intelligence* (Eds: L. Wang, C. Singh, and A. Kusiak), Springer Book Series on **Green Energy and Technology**, Springer-Verlag, pp. 255-295.
2. Bharat Singh, S. N. Singh and Lingfeng Wang. *Electric Grid Connections and System Operational Aspects of Wind Power Generation*" in a book entitled "**Wind Energy Conversion System: Technology and Trend**, Berlin: Springer-Verlag, 1-28, Ed. S. M. Mueen, January 2012, ISBN 978-1-4471-2200-5.
3. R. K. Chauhan, Bharat Singh, S. N. Singh and F. M. Gonzalez-Longatt, *DC Grid Interconnection for Conversion Losses and Cost Optimization* in the book entitled,

- Renewable Energy Integration: Challenges and Solutions**, Springer-Verlag (2014), pp. 327-346
4. Trapti Jain, Sri Niwas Singh and SC Srivastava, *STATCOM Application for Enhancement of Available Power Transfer Capability in Transmission Networks* in a book titled "**Static Compensators (STATCOM) in Power Systems**" Springer Science + Business Media Singapore Pte Ltd (2015). Editors: Farhad Shahnia, Sumedha Rajakaruna and Arindam Ghosh, pp. 505-530.
  5. P Pavani and SN Singh, *Reliability Evaluation of Distribution System with Network Reconfiguration and Distributed Generations*, in the book entitled, **Reliable and Sustainable Electric Power and Energy Systems Management**, Springer-Verlag (2015). Editors: Ajit Kumar Verma, Rajesh Karki, Jaeseok Choi.
  6. Chitaranjan Phurailatpam, Bharat Singh, S. N. Singh and F. M. Gonzalez-Longatt, *Distributed Generation Systems: Design, Operation and Grid Integration*, (under print).
  7. P Pavani and SN Singh, *Economic Aspect of DG*, in the book entitled **Handbook of Distributed Generation**, Springer Verlag (2016). Editors: RC Bansal.
  8. Mahesh Kumar, SC Srivastava and SN Singh, *Modelling, Design, and Control of Smart DC Microgrid for Integration of Various Non-conventional Distributed Generators*, in the book entitled **Handbook of Distributed Generation**, Springer Verlag (2016). Editors: RC Bansal.
  9. Sanjeev Kumar Mallik, Saikat Chakrabarti and SN Singh, *State estimation in the presence of synchronized measurement*, in the book entitled **Synchronized Phasor Measurements for Smart Grids**, IET POWER AND ENERGY SERIES 97. Editors: M. Jaya Bharata Reddy and Dusmanta Kumar Mohanta,

### Monographs:

- \* *Power System Operation and Control in Restructured Environment*, QIP India, 2003.
- \* *Electric Power Distribution: Reforms, Automation and Management*, CDTE, IITK, 2004.
- \* *Electric Power System Operation and Control: Modern Trends and Future Challenges*, QIP, 2006.
- \* *Electric Power Quality: Monitoring, Analysis and Mitigation*, IITK 2008.

### Thesis Supervisions

Ph. D.	: 38 (28 completed, 10 in progress)
M. E./ M. Eng.	: 41 (40 completed, 1 in progress)

### Professional Membership

- \* *Fellow*, The Institution of Electrical and Electronics Engineers- (FIEEE)
- \* *Fellow*, Indian National Academy of Engineering (FNAE)
- \* *Fellow*, The Institution of Engineering and Technology, UK- (FIET)
- \* *Fellow*, The Institution of Engineers (India)- (FIE)
- \* *Fellow*, The Institution of Electronics and Telecommunication Engineers -(FIETE)
- \* *Life Member* of Indian Society of Continuing Education Engineering -(ISCEE)

## Awards/Prizes

1. Got 2nd Rank in Bachelor of Technology (Electrical), KNIT Sultanpur, India, 1987
2. Stood First in M. Tech. (Power Systems) and got Cumulative Performance Index (CPI) 10.0 out of 10.0, IIT Kanpur, India, 1989.
3. Received Appreciation letter from the Chairman, U.P. State Electricity Board (India), 1990 for two Research Reports
4. Certificate of Merit award for a technical paper entitled *Reactive Power Planning for Secure Operation of Power System*, in the 1st International R&D Conference of CBIP, New Delhi, 9-12 October 1995.
5. Received C.B.I.P. **Young Engineer** Award 1996.
6. Khosla Research Award (Commendation) of University of Roorkee, India 1998.
7. Received INAE **Young Engineer** Award 2000.
8. Khosla Research Award (Gold) of Roorkee University, India, 2000.
9. Appreciation letter from Dean, SERD, AIT Bangkok for excellent services to Energy Program, 2002.
10. **Humboldt Research Fellowship** (2005, 2007)
11. Listed in Who's Who in Asia (2006) and Who's Who in World (2007)
12. Listed in Who's Who in Science & Engineering (2007)
13. 21<sup>st</sup> Century Award for Achievement by IBC Cambridge, England (2007)
14. Listed in Leading Engineers of the World 2007, IBC Cambridge, England (2007)
15. **First Prize** in a technical paper titled *Short-Term Zonal Load Forecasting in PJM Electricity Market Based on Adaptive Wavelet Neural Network*, in the IEEE Sponsored Student paper Contest and Technical Symposium (SPCTS-2007) at DA-IICT, Gandhinagar, 28-30 Sept 2007.
16. **Best Paper ward** of 14<sup>th</sup> International Conference on Intelligent System Application to Power Systems (ISAP07) held during Nov 4-8, 2007, Kaohsiung, Taiwan.
17. **Otto Mønsted's Fond Award**, Denmark (2009)
18. **2010 Clayton Griffin Student Paper Award** for SVM based Scheme to Prevent Distance Relay Mal-operation under Power Swing and Voltage Instability"
19. Three PhD Theses got **POSOCO Power System Award, 2012**
20. 2013 IEEE Educational Activities Board **Meritorious Achievement Award** in Continuing Education
21. **Dr PS Nigam Power Sector Award 2013 and 2014** by IE(I), UP State Center
22. The Institution of Engineers (I), **Certificate of Appreciation, 2013.**
23. Two PhD Theses and One M.Tech. thesis got **POSOCO Power System Award, 2013**
24. 2013 IEEE R10 **Educational Activities Board Award, 2013**
25. 2014 IEEE **PES Chapter Outstanding Engineer Award.**
26. **Er Hari Mohan Memorial Award 2014** by IE(I), UP State Center
27. **Emerald Literati Network 2015 Awards for Excellence** by Emerald Publication UK.
28. **IEEE India Council, M V Chauhan All India Student Paper Award 2015** (Second prize) for Binary Genetic Algorithm Based Reconfiguration of Distribution Systems having Distributed Generations.
29. Two PhD Theses got **POSOCO Power System Award, 2015**
30. **Gobal Citizen Award 2016** by KNIT Sultanpur.
31. **Ranked 4rth in top** researchers in Energy area by DST New Delhi based on the number of publications during 2002- 2014.
32. **INAE Outstanding Teacher Award 2016**

33. **IEEE Region 10 (Asia-Pacific) Outstanding Volunteer Award 2016**
34. **IEEE India Council, M V Chauhan All India Student Paper Award 2016 (First prize)** for Risk Based Optimal Genco's Self-Scheduling'.

## Conference/Seminar/Course Organized

- \* **Organizing Secretary** of All India Seminar on *Electric Energy System Management - Indian Scenario* at IE (I) Roorkee Local Center, 4-5 September 1998.
- \* **Co-ordinator** of Quality Improvement Program Course on *Voltage Security and Stability Assessment using Artificial Neural Network* at University of Roorkee, 11-25 June 1998 (Co-coordinator: Prof ID Sharma).
- \* **Coordinator** of Quality Improvement Program Course on *Electric Power System Operation and Management under Restructured Environment* at IIT Kanpur, 21-25 July 2003 (Co-coordinator: Prof SC Srivastava).
- \* **Coordinator** of Short-term workshop *Electric Power Distribution: Reforms, Automation and Management* at IIT Kanpur, May 10-14, 2004 (Co-coordinator: Prof SC Srivastava).
- \* **Coordinator** of Quality Improvement Program Course on *Electric Power System Operation and Control: Modern Trends and Future Challenges* at IIT Kanpur, August 28- September 1, 2006 (Co-coordinator: Prof SC Srivastava).
- \* **Coordinator** of Short-term Training course On *Recent Practices in Electric Power Distribution* at IIT Kanpur, November 27-29, 2007.
- \* **Coordinator** of DST SERC School on *Power Quality: Monitoring, Analysis and Mitigation* at IIT Kanpur, April 7-11, 2008 (Co-coordinator: Prof SC Srivastava).
- \* **Coordinator** of Quality Improvement Program Course on *Flexible AC Transmission Systems Controllers and Their Applications in Emerging Power Systems* at IIT Kanpur, March 23-27, 2009.
- \* **Coordinator** of Quality Improvement Program Course on *Intelligent System Applications to the Smart Electric Grid Solutions* at IIT Kanpur, November 15-19, 2010.
- \* **Coordinator** of Quality Improvement Program Course on *Operation and Management of Emerging Power Systems* at IIT Kanpur, November 21-25, 2011.
- \* **Coordinator** of Training of Trainers of Partner Institutes on *Distribution Equipments: Technology and Applications* at IIT Kanpur, June 28, 2012.
- \* **Coordinator** of Quality Improvement Program Course on *Power Market: Economics and Management*, at IIT Kanpur, October 29- November 2, 2012 (Co-coordinator: Dr Vimal Kumar).
- \* **Coordinator**, of Quality Improvement Program Course on *Power System Economics* at IIT Kanpur, July 26-30, 2013 (Co-coordinator: Dr Vimal Kumar).
- \* **Coordinator**, of Course on *Power Market & Economics* at IIT Kanpur, May 15-18, 2014 (Co-coordinator: Dr Vimal Kumar).
- \* **Main Resource Person** of course on Power generation at Ambhabusi, Johannesburg, South Africa, June 9-13, 2014.
- \* **Coordinator**, of Course on *Power Market & Economics* for POSOCO New Delhi at NPTI Faridabad, September 16-20, 2014 (Co-coordinator: Dr Vimal Kumar).
- \* **Coordinator** of Quality Improvement Program Course on *Power Generation: Present Status and Future Directions*, at IIT Kanpur, December 1-5, 2014 (Co-coordinator: Dr J Ramkumar).
- \* **Coordinator** of National Workshop on Smart Micro-Grids for autonomous Zero-Net Energy Buildings, at IIT Mandi, December 11-12, 2014 (Co-coordinator: Dr Bharat Singh Rajpurohit).
- \* **General Chair**, International Conference on Energy, Economics & Environment, March 26-28, 2015 at GCET, Greater Noida India (Ist UP CON).

- \* **General Chair**, International Conference on Advances in Computing and Communication Engineering, May1-2, 2015 at Tula's Institute Dehradun.
- \* **Coordinator**, of Course on *Power System Economics and International Practices in Power Market Operation* for POSOCO New Delhi at PSTI Bangalore, May 11-15, 2015 (Co-coordinator: Dr Vimal Kumar).
- \* **General Chair** of *International Solar Energy Seminar 2015*, August 21-22, 2015, Galgotias College of Engineering & Technology, Greater Noida, UP
- \* **Coordinator**, of Course on *Ancillary Services and Electricity Markets* for POSOCO New Delhi at IIT Kanpur, September 7-10, 2015.
- \* **General Chair**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, December 4-6, 2015 at IIIT Allahabad, India (2nd UP CON 2015).
- \* **General Chair**, 'First International Conference on *Computing, Communication and Security* (ICCCS- 2015), Mauritius on Dec 4-5, 2015.
- \* **General Chair**, 2<sup>nd</sup> International Conference on Advances in Computing and Communication Engineering, April 7-9, 2016 at Tula's Institute Dehradun.
- \* **Coordinator** of International Workshop on Next Generation Active Distribution Networks to Empower Future Low Corabon Indian Society, at IIT Mandi, August 12-14, 2016 (Co-coordinator: Dr Bharat Singh Rajpurohit).
- \* **General Chair**, 2nd International Conference on Advances in Computing, Communication & Automation (ICACCA 2016), MJP Rohilkhand University Bareilly, Sept 30-Oct 1, 2016.
- \* **General Chair**, 2nd International Conference on Control, Computing, communication and Materials (ICCCCM-2016), United College of Engineering & Research, Allahabad, Oct 21-22, 2016.
- \* **Mentor**, Newton-Bhabha India UK Advanced Training School on Optimal Design and Control of Smart Community: New Ideas for off-grid Communities, Nov. 7-17, 2016 at IIT Gandhinagar.
- \* **General Chair**, International Conference on Emerging Trends in Communication Technologies, November 18-19, 2016, Graphic Era Univ., Dehradun.
- \* **General Chair**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, December 9-11, 2016 at IIT BHU, India (3rd UP CON 2016).
- \* **Coordinator**, Course on Electronic Module for Training of Electrical Supervisors, Electric training Center, Kanpur during April 25-30, 2017.
- \* **General Chair**, 2<sup>nd</sup> International Conference on Advances in Computing, Communication and Automation, September 15-16, 2017 at Tula's Institute Dehradun.
- \* **General Chair**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, October 26-28 at GLA University, India (4rth UP CON 2017).

## Personal Information

Father's Name (Shri) : Janak Raj Singh  
Sex (Status) : Male (Married)  
Date of Birth : Five September Nineteen Ninety Six  
Nationality : Indian  
Permanent Address : S/o Sri Janak Raj Singh  
Vill & P.O. - Kurmauta - Manjharia  
Distt. - Kushinagar (UP) - 274402, India

## Name & Address of Referees

- \* Prof. S.C. Srivastava, Department of Electrical Engineering  
Indian Institute of Technology, Kanpur – 208 016, India  
Email: [scs@iitk.ac.in](mailto:scs@iitk.ac.in)  
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- \* Dr. D. P. Kothari, FNAE, FNASc, Fellow-IEEE , Hon Fellow - ISTE  
Director – Research , MVSR Engineering College , Hyderabad  
Nadergul (P.O) , Hyderabad - 501510  
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- \* Prof F.S. Wen  
Professor, School of Electrical Engineering  
Director, Zhejiang University-Insigma Joint Research Center for Smart Grids  
Director, Institute of Power Economics and Information  
Zhejiang University, Hangzhou, 310027, China  
  
Department of Electrical & Electronic Engineering  
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- \* Prof. D. Thukaram  
Department of Electrical Engineering  
Indian Institute of Science, Bangalore-560012  
Phone: (91-80) 22932362, 22933168, Fax:(91-80) 23600444  
Email: [dtram@ee.iisc.ernet.in](mailto:dtram@ee.iisc.ernet.in), [dtram\\_2001@yahoo.com](mailto:dtram_2001@yahoo.com)



## Work Experience

### \* RESEARCH EXPERIENCE

Worked as **Research Fellow** in the *Department of Electrical Engineering* at **Hong Kong Polytechnic University, Hong Kong** from 20.12.98 to 31.3.2000 on the problem of Dynamic security constrained congestion management of open access transmission systems in competitive power market. This is one the current area of Power Systems. Suitable location of FACTS devices in open power market has also been developed for congestion management.

Worked as **Post Doctoral Fellow** in Energy Program at *Asian Institute of Technology, Thailand* from *May 1997 to August 1997* on the problem of Assessment of Energy Efficient Options for Mitigating Emissions of Greenhouse Gases from Electricity Sectors funded by Swedish International Development Agency (SIDA). The Special objective of the research was to assess the Supply- and Demand-side options for greenhouse gases mitigation from electricity sectors with Integrated Resource Planning (IRP) Perspective.

Worked as **Humboldt Fellow** at University of Duisburg-Essen, Germany from June 2005 to December 2005 and December 2006 to June 2007 on the problem of impact of wind energy on power system operation and control. The effect of FACTS controllers on Power system loadability is also investigated.

Worked at **Visiting Professor** at Denmark Technical University, Denmark from July 2009 to June 2010 on the problem of real time balancing market in the Denmark with wind power trading and demand response sponsored by EcoGrid-EU and Engerginet.dk.

### \* TEACHING EXPERIENCE

Working as **Professor** in the Department of Electrical Engineering, *Indian Institute of Technology, Kanpur (UP), India* from **08.02.2008 to date**.

Worked as **Associate Professor** in the Department of Electrical Engineering, *Indian Institute of Technology, Kanpur (UP), India* from **05.04.2002 to 07.02.2008**. Received several appreciation letters from Director, IIT Kanpur for the best teaching in various courses

Worked as **Assistant Professor** in Electric Power System Management (Energy Program) at *Asian Institute of Technology, Bangkok, Thailand* from **02.01.2001 to 04.04.2002**. Received appreciation letter from President, AIT for the significant contribution in Energy Program

Worked as **Assistant Professor** in the Department of Electrical Engineering, *University of Roorkee (UP), India* from **14.06.96 to 01.01.2001**. Received Kosala Research Award (Gold, 2000 & Commendation, 1996)

## I. Theses Supervision

### Ph. D.

1. ANN Approach to Voltage Security Assessment (**Dr Laxmi Srivastava, MITS Gwalior**)
2. Design of electricity utility restructuring model for Indian power system (**Dr KG Upadhyay, MMMEC Gorakhpur**)
3. ATC and Congestion Management in deregulated environment (**Dr Ashwani Kumar, NIT Kurukshetra**)
4. Development of Nonlinear Adaptive Damping Controllers for Improving Power System Stability (**Dr B Kalyan Kumar, IIT Madras**).
5. Development of Market Monitoring System and Swarm Particle Intelligence Based Bidding Strategies in Electricity Market (**Dr Prabodh Bajpai, IIT Kharagpur**)
6. Enhancement of Power System Performance Using Advanced Unified Power Flow Controllers (**Dr Sudhir K. Srivastava, MMMEC Gorakhpur**)
7. Loading Sensitivity and Pricing based Indices for Placement of FACTS Controller to enhance Power System Performance (**Dr JG Singh, AIT Bangkok**)
8. Fast Available Transfer Capability Determination and Its Enhancement using FACTS Controllers (**Dr Trapti Jain, IIT Indore**)
9. Detection and Localization of Power Quality Events in Noisy Environment and Classification using Support Vector Machines (**Dr U D Dwivedi, RGIPT Raibareilly**)
10. Frequency Regulation Service and Reactive Power Management in Electricity Markets (**Dr Sanjoy K. Parida, IIT Patna**)
11. Reactive Power Capability and Performance Analysis of Grid Connected Unified DFIG for Wind Power Applications (**Dr Bharat Singh Rajpurohit, IIT Mandi**)
12. Forecasting of Short-Term Load, Operating Reserve & Price and Optimal Generation Portfolio Management in Electricity Markets (**Dr N. M. Pindoriya, IIT Gandhinagar**)
13. Application of Artificial Intelligence (AI) Tools for Load, Price and Bid Forecasting in Power System (**Dr MM Tripathi, DTU Delhi**)
14. Development of Adaptive Load Shedding and Distance relaying Scheme utilizing Synchophasor Technology (**Dr Seethalekshmi K., BBDNITM Lucknow, Thesis received POSOCO Award 2013**)
15. Synchrophasor Assisted State Estimation and Voltage Stability Monitoring including Optimal PMU Placement (**Dr Ranjana Sodhi, IIT Ropar**)
16. Real Time Power System Stability and Prediction using Synchrophasor Based Wide Area Monitoring System (**Dr Praveen Tripathy, IIT Gowahati**).
17. Estimation of Stationary and Time-Varying Harmonics in Emerging Power Systems (**Dr Sachin K Jain, IIITDM Jabalpur. Thesis received POSOCO award 2013**).
18. Monitoring and Classifications of Power Quality Events in Emerging Power System (**Dr Dipti Saxena, MNIT Jaipur, Thesis received POSOCO award 2014**)
19. Swarm Intelligence Based DG and Capacitor Planning in Distribution Networks (**Dr Naveen Jain, COE Udaipur. Thesis received POSOCO award 2013**)
20. Development of Strategic Bidding of Supplier and Buyer in Electricity Markets (**Dr Arvind K Jain, RBSF Gwalior, Thesis received POSOCO award 2014**)
21. Wind Power Forecasting & Its Applications in Optimal Bidding and Optimal Reactive Power Dispatch of Wind Farms (**Dr Kanna Bhaskar, JNTU Hyderabad, Thesis received POSOCO award 2015**)
22. Generation Companies' Strategic Bidding In Day-Ahead Electricity Markets (**Dr Prerna Jain, MNIT Jaipur**)

23. Development of Control Schemes for Power Management and Operation of DC Microgrids (**Dr Mahesh Kumar**, Thapar University, Patiala, *Thesis received POSOCO award 2015*)
24. Economic and Stability Analysis of Optimally Placed Distributed Generations in Distribution Systems (**Dr P Pavani**, Alborg Univ. Denmark, *Thesis got the Appreciation letter from UPCON15*)
25. Performance Analysis and Power Forecasting of Single-Stage Utility Scale Grid Connected PV System (**Dr Vivek Nandan Lal**, IIT BHU, *Thesis received POSOCO award 2016*)
26. Hybrid State Estimation and Enhanced Monitoring of Power Systems Using Synchrophasors (**Dr SK Mallik**, NIT Patna, *Thesis received POSOCO award 2016*)
27. Evolutionary Technique Based Solution to the Unit Commitment Problem including Renewable Energy Sources (**Dr Anup Shukla**, Harvard Univ. USA, *Thesis received POSOCO award 2017*)
28. Development of Distributed Control Scheme For Energy Storage Systems Using Distribution System Load Pattern (**Dr DD Sharma**, MJP Ruhelkhand University)
29. (Under progress: Ms Debasmita Panda)
30. (Under progress: Mr KK Tomar)
31. (Under progress: Ms Priyanka Gangwar)
32. (Under progress: Mr Aasim)
33. (Under progress: Mr Avinash Kumar)
34. (Under Progress: Ankit Yadav)
35. (Under Progress: Chaman Lal)
36. (Under Progress: Gaurav Khare)
37. Under progress: ( V. Vineeth)
38. Underprogress: ( A K Gupta)

## **M. Tech.**

1. Multi-Objective Generation Dispatch (RK Srivastava)
2. Determination of Degree of Insecurity of Power System using FLN (HK Katwani)
3. Unit Commitment Using Fuzzy Dynamic Programming (Daya Kishan)
4. Environmental Constrained Generation Expansion Planning (VP Singh)
5. Error Identification and State Estimation in Power Systems (Bijendra Kumar)
6. Green House Gas mitigation from Indian Power Sector (Priya Ranjan)
7. Integration of GPS/GIS in Electric Power Distribution Automation (M Rajender)
8. Design and tuning of power system stabilizer for Kaiga nuclear power plant (S.P Panda)
9. Voltage stability assessment & enhancement of Nepal power system (Bishnu P Sapkota)
10. Angular stability enhancement of Nepal power system using Stabilizing controllers (Mahendra AC)
11. Optimal placement & operation of distributed generators in power systems (G. C. Sethi)
12. Optimal bidding strategies in a competitive electricity market using a particle swarm optimization (Punna Shiv Kumar)
13. Application of self-organizing map and extended relation function method for power transformer fault diagnosis (Ch. Subhash Chandra)
14. Development of Adaptive Supplementary Feedback Controller for GUPFC (Praveen Tripathy)

15. Neuro-Fuzzy Based Automatic generation Control in Deregulated Power Systems (K Sudheer)
16. Classification of Power Quality Events Using Support Vector Machine (Robin Gupta)
17. Recursive DFT and Kalman Filter Application for Fast & Robust Detection and Estimation of Harmonics and Voltage Variations (Chirag Vrushney)
18. Dynamic Performance Evaluation of Unified DFIG Architecture for Wind Power Generation (V. Emmoji)
19. Compensation of Delay in Networked Control System in Deregulated Automatic Generation Control (Kamala Kant)
20. Artificial Intelligence Based Location and Classification of Power Quality Events (Deepti Shakya)
21. Wind, Thermal and Hydro Unit Commitment Using Advanced Particle Swarm Optimization (J. Yadagiri)
22. Transmission Cost Allocation Using Power Flow Tracing Method (Pratibha Gupta)
23. Loss Minimization in Electrical Distribution Systems Through Optimal Network Reconfiguration and Allocation of Distributed Generation (K. Uday Chandrika)
24. Modeling and Control of Grid Connected Photovoltaic System Using PSCAD/EMTDC (S Jayachandra Naidu)
25. Performance Study of Hybrid Wind-Fuel Cell System Connected to High Voltage Grid (N Nagraj)
26. Development of Optimal PMU Placement Strategy and Support Vector Machine based Fault Detection, Classification and Location (P Pavani)
27. Distribution System Reconfiguration considering Reliability and Power Loss (Amunah)
28. An application of Average and Marginal Participation Methods for Transmission Pricing (Najmul Islam Usmani)
29. Identification of Harmonic Sources and Optimal Placement of Filter for Harmonic Mitigation (S Bhowmik)
30. Cellular Neural Networks: Applications in Power Systems (Manesh K Meena)
31. Low Voltage Ride through Solutions for DFIG Wind Turbine (Amrendra Edpuganti)
32. Performance Study on the Techniques for Monitoring the Power System Oscillations (Srinivas Chaturi)
33. Controller Design and Dynamic Analysis of PV System (M Sidhardha, *Thesis received POSOCO award 2014*)
34. Coherency Based Dynamic Equivalencing of Electric Power System (Shikha Chitora, *Thesis received POSOCO award 2015*)
35. Output Power Leveling of DFIG Using Battery Energy Storage System (Satakshi)
36. Zero Net Energy House Clusters: Protection and Energy Management (Gaurav Pandey)
37. Design and Modeling of VSC-HVDC Transmission System having Wind Farm (Nirjhar Roy)
38. Control Strategies for Output Power Smoothing of DFIG with SVC in Wind Energy Conversion System (Ankit Jain)
39. Power Procurement Cost Analysis for Electrical Utilities in Uttar Pradesh (Praveen Kumar Nair)
40. Impact of Regulation Ancillary Service in Indian Electricity Market (Sitanshu Mishra)
41. Under progress (Varsha Shukla)

## II. Teaching & Research Activities

### (a) Sponsored Research Projects

Sl. No	Name of the project	Status	Spons. Agency	Amount	Other investigators
1.	Demand Side Management & Distribution Automation System	completed	AICTE	Rs 900000	Dr MP Dave Sri B. Gupta Dr NP Padhy
2.	Optimal location of FACTS devices in competitive power market	completed	AIT	Baht 50000/-	----
3	Electricity supply industry reform in Thailand	completed	EGAT	Baht 12 millions	Prof Surapong and others
4	Improvement of Operation performance of integrated AC/DC system through multiple controllable devices	completed	MHRD	Rs13.0 lakh	--
5	Technology Development Mission –Contribution from Industry (DA)	completed	IITK	Rs 28.0 lakhs	Prof SC Srivastava and others
6	Strategies for Promotion of Energy Efficient and Cleaner Technologies in the Power Sector	completed	AIT	Rs.10.0 lakhs	Prof SC Srivastava and others
7	Enhancement of Power Systems' performance using FACTS in competitive power market.	Completed	CPRI/ MoP	Rs. 18.4 lakhs	Prof SC Srivastava
8	Assessment and Analysis of Electric Power Quality Problems using AI and Advanced Digital Signal Processing Techniques	completed	DST	Rs 10.22 lakhs	Prof SC Srivastava
9.	Performance Analysis and Trading of Wind power Generation in Emerging Power System	completed	CPRI/ MoP	Rs 21.60 lakhs	----
10	EHV/UHV Transmission system planning for UPPTCL	completed	UP PTCL	Rs 50.0 Lakhs	Prof SC Srivastava & Dr N Gupta
11	Setting up Real-Time Digital Simulation Facility for Advance Research in Power and Control	completed	DST	7.5 Crores	Prof SC Srivastava & Others
12	Smart Multi-Terminal DC micro-grid for autonomous zero-net energy buildings	completed	DST- UKIERI	27.208 lakhs	Dr Bharat Singh & Others
13	A Multi-dimensional Smart Energy Grids Analysis of Indian Scenario	In progress	DST- SERI	134.961 lakhs	YN Singh & 2 from IIT Mandi
14	Adaptive Clustering for Decentralized Resilient Energy	In progress	DST- NWO	71.32 Lakhs	Dr A. Mohaptra

	Management				
15	Stabiliz-Energy	In progress	DST-EU	29.936 lakhs	Dr Saikat C & others
16	Development of Control Strategies for Grid-connected PV System utilizing MPPT and Reactive Power Capability	In progress	CPRI	31.25 lakhs	Dr Saikat Chakraborti

**(b) Consultancy Projects:**

Sl. No.	Name of the project	Status	Spons. Agency	Amount	Other invest.
1.	Technical report of MDI & low power factor of m/s Guatam Cement, Hamirpur.	Completed	DVVNL Banda	Rs 28060	-
2.	Study on demand & energy charges against import of power during peak hours without drawl of active power	completed	UP Sug. Mills Cogen Asso.	Rs 210675.0	----
3	Third Party Quality checking of works of UPSIDC	completed	UPSIDC	Rs 112360.0	-
4	Development of Transmission pricing scheme for Orissa Grid	completed	OERC	Rs. 294945.0	Dr Anoop Singh
5	EHV/UHV Transmission system planning for UPPTCL- Study cell IIT Kanpur.	Completed	UP PTCL	Rs 40.0 Lakhs	Prof SC Srivastava & Dr N Gupta
6	BSES Rajdhani Power, New Delhi	completed	BSES	Rs 10.0 lakhs	Prof SC Srivastava
8	33 kV substation design and estimation of cost	completed	Sagar Univ.	Rs 21.067 lakhs	Er Rajeev Garg
9	Studies on Voltage stability and small signal stability	completed	GE, Bangalore	Rs 10.3933 lakhs	Dr Saikat Chakraborti
10	Vetting of Estimate for Illumination at IA Trans Ganga Unnao	completed	UPSIDC	Rs 69.07 lakh	-
11	Consultancy work on upgradation, expansion and redesigning of 33/11/0.4 kV substations/network	Completed	IIIT Allahab ad	Rs 7.89 lakhs	---
12	Third Party Quality Inspection of JP Narayan International Center, Gomati Nagar	Ongoing	LDA Lucknow	Rs 29.07 lakhs	Dr Sudhir Mishra
13	Vetting of Estimate for Power and Lighting Network at IA Trans	completed	UPSIDC	Rs 57.25 lakh	-

	Ganga Unnao				
14	Technical Vetting of Alknanda Enklave , Avadh Vihar, Avash Vikas, Lucknow	completed	AVPL	R 3.00	--

**(c) Courses Taught**

**(At IIT Roorkee, 1996 to 2000)**

- Power System Operation and Control (UG and PG)
- Extra High Voltage transmission (PG)
- Power Systems-I (UG)
- High Voltage Laboratory (UG)
- Power System Protection Laboratory/Tutorial (UG)
- Electrical Science (UG)
- Electro Magnetic Theory Tutorial (UG)

**(At AIT Bangkok, 2001-2002)**

- Power System Design and Operation (PG)
- Power System Dynamics and Stability (PG)
- Power Sector Management under Deregulation (PG)
- Rural Electrification and Distributed Generation (PG)

**(At IIT Kanpur, 2002 onward)**

- Economic Operation and Control of Power System (PG)
- Power Systems Lecture, tutorial (UG)
- Introduction to Electrical Engineering Lecture, Laboratory & Tutorial (UG)
- HVDC Transmission Systems (PG)
- Power System Operation & Management Under Restructured Environment (PG)
- Electric Machines and Energy Conversion-I & II, Lab & Lectures (UG)
- HVDC Transmission and FACTS (PG)
- Simulation of Modern Power Systems (PG)

**(At DTU Denmark, 2010)**

- Electric Power Network (PG)

**(d) Invited Lectures Delivered in Workshops, Courses etc.**

Sl.	Name of workshops, courses etc	Topic of Lectures	Hours
1	Industrial Energy Audit, April 23-May 11, 2001, AIT Thailand	Transmission and Distribution	4.30
2	Power System Transient Simulation & Its Applications, 11-14 December 2001, AIT Thailand.	1. Fundamentals of Digital Simulation Techniques. 2. Subsynchronous Resonance	1.30 1.0
3	Organization of the electric supply industry to enhance development, Feb. 8-9, 2002, AIT Thailand.	Competitive power market: International experiences	1.0
4	Power System Operation and Control, May 13-17, 2002, AIT Thailand	Active power and frequency control, Power System Security and Contingency Analysis	5.45
5	Power System Planning, Operation and Management, July 1-19, 2002, AIT Thailand.	Several topics on Power Systems Operation and Management under deregulation.	20.0
6	Rural electrification and Distributed generation, Aug.21-23, 2002, AIT Thailand.	Rural electrification	5.30
7	Advanced Management Program, IIM Lucknow, September 2-21, 2002.	Recent Trends in Transmission Technology	3.00
8	HVDC Transmission and FACTS Technology, December 11-13, 2002, AIT, Thailand	Evolution of HVDC, Converter configuration, Analysis, Faults and Protection, FACTS Role	6.00
9	Rural electrification and Distributed generation, July 9-11, 2003, AIT Thailand.	Rural electrification etc	5.45
10	Invited Lectures in Seq. MTech of UPTU during June/July 2003, 2006	Neural Networks, Power System restructuring	2x45, 60
11	Electric Power System Operation and Management under Restructured Environment, 21-25 July 2003, IIT Kanpur.	Deregulation, Review, Models, Market power, FACTS	6.30
12	National Power System Conference at IIT Chennai during Dec 27-29 2004	Power System Restructuring in Indian Context	1:30
13	Democritus Univ. Xanthi, Greece during May 9-13, 2005	Electric PS operation & dynamics in restructured environment	24:00
14	Democritus Univ. Xanthi, Greece during June 4-8, 2007	Voltage, Frequency and Power flow Control in Electric Power Systems	24:00
15	Asian Institute of Technology Thailand during March 28-April 3, 2011	Power System Restructuring	11:00
16	Asian Institute of Technology Thailand during May 15-18, 2012	Power System Management	20:00
17	Power System Operation Corporation, New Delhi, June 15, 2012	Ancillary Services	3:00
18	DCR Murthal, December 19, 2012	Emerging Trends in Power Systems	3:00
19	MPEC, Mandhana, Kanpur, Oct., 2013	Fundamentals of Power Systems	2:00
20	IMS Ghaziabad, October 25, 2013	Education and Ethics	1.30
21	Anna University, Chennai, May 21, 2015	Smart Grid Implementation	1:30



22	NIT Hamirpur, HP May 29-30, 2015	Smart Grid Technology: Present & Future; Advances in Power Systems	3:00
23	United College of Engg & Technology, Allahabad, July 13, 2015	Emerging Trends in Power Systems	2:00
24	Institution of Engineers (I), Kanpur Local Center, Kanpur, August 9, 2015.	Smart Village	1:00
25	Mechanical Engineering Deptt., IIT Kanpur, August 17, 2015	Intelligent System Applications in Solving Engineering Problems	1:00
26	Tulas Institute of technology, Deharadun, September 4, 2015	Smart Grid Solutions	1:00
27	9 <sup>th</sup> Workshop for Forum of Regulators, November 22, 2015, IIT Kanpur	Forecasting of Renewable Energy Sources	1:30
28	Faculty Development program , CIT Abu Road, November 27, 2015	Enhancing Teaching and Research Capabilities	2:00
29	Rajkeeya Engineering College, Ambedkar Nagar, Feb 1, 2016	Improving the fundamental	2:00
30	ABES Ghaziabad, Feb 13, 2016	Smart Grid Issues and Challenges	1:00
31	A Three Day Residential Course on Power Market In India - Way Forward March 1, 2016	Ancillary Services in Electricity Market	1:30
32	Technical Symposium on Publication Ethics, Energy and Environment and Award Ceremony of MTT-S Student Branch Chapter on 23.9.2016	Understanding Electrical Engineering	1:30
33	Research Paper writing and Publication Ethics, GLA Mathura, 24.09.2016	Effective writing and publishing Research paper	1:30
34	Newton-Bhabha India-UK advanced training school (IUATS)- Nov 7-17, 2016	<ul style="list-style-type: none"> <li>• Challenges in smart grid implementation</li> <li>• Smart distribution systems- Smart Communities: An Indian Case</li> <li>• Smart distribution systems- Indian Power System beyond 2020</li> </ul>	4:50
34	Sagar Institute of Engineering & Research, Bhopal, Nov 22, 2016	Emerging Trends in Electrical Engineering	1:30
35	National University of Singapore	Role of Forecasting in Power System Operation	1:00
36	“Smartgrid: Cyber Physical Energy Systems. IIT Patna, 2-8 Dec 2016	<ul style="list-style-type: none"> <li>• Estimation of Grid Harmonics in the Presence of Renewable Energy Sources</li> <li>• Smart Multi-Terminal DC <math>\mu</math>-Grid Control and Operation</li> </ul>	3:00
37	Guest Lecture, GL Bajaj, Gr Noida, Feb 9, 2017.	Smart Grid Challenges	1:30
38	IEEE R10 mini-POCO Forum	Challenges and Issues in R10 Conferences	2.00
39	IEEE workshop on Research Paper Writing	Writing effective paper and	1:00

	and Intellectual Property Rights on 25th March 2017	publishing it	
40	International IEEE Women Symposium on Empowering Women to Develop Confidence and Leadership Quality to Bring Revolution in Society , 25 <sup>th</sup> March 2017	Women Empowerment in India: Issues and Challenges	1:00

\* PRACTICAL EXPERIENCE

Worked as **Assistant Engineer** in U.P. State Electricity Board, at I.I.T. Kanpur Study Cell, India (A State Government Enterprise) from **08.08.88** to **03.07.95** and was responsible for R & D activities relating to Computer Application in Power Systems Planning, Operational & Control. The work was to carry out Power System Studies (i.e. Load Flow, Short Circuit, Stability studies etc.) of U.P. Power System, India where more than 20 research reports were compiled with other officers of Computer Study Cell, IIT Kanpur, India. The old Dec-Version programs were modified to make compatible with PC and user friendly. The Chairman, UP State Electricity Board, India had issued the **appreciation letter** for the work carried there.

Worked as **Assistant Engineer** in Control and Instrumentation Maintenance Division of U.P. State Electricity Board, Obra Thermal Power House, Sonebhadra (UP), India (A State Government Enterprise) from **10.07.95** to **13.06.96**. The main work was to look after the control and instruments of 2x200 MW units during operation shift-C. Since the control and instruments are the heart of any power plant and any trouble/problem may cause tripping of unit, the duty was very important from proper operation of the plant.

\* ADMINISTRATIVE EXPERIENCE

**(At IIT Roorkee, 1996-2001)**

1. Member Post Graduate Academic Program Committee (From Dec. 1996 to Dec.1998)
2. Officer in Charge Power System Protection Laboratory (Dec. 1996 to Oct. 1997)
3. Officer in Charge M.E. (Power System Engg.) Class (From Dec. 1996 to Dec. 1998)
4. Member Post Graduate Admission Committee (From Dec. 1996 to Dec. 98 & From April 2000 to Dec. 2000)
5. Member Planning Committee of EE Department (From Nov. 1997 to Dec. 1998)
6. Officer in Charge UG Training Program (From Nov. 1997 to Dec. 1998)

**(At AIT Bangkok, 2001-2002)**

7. Member, IT Committee (From May 2001 to March 2002) in AIT, Bangkok

**(At IIT Kanpur, 2002 onward)**

8. Member, DPGC (From May 2002 to 2005, 2010 to 2014)
9. Convener, PhD Admission 2003
10. Convener M. Tech. admission, 2002
11. Member, Institute Works Advisory Committee (From March 2005 to June 2009)
12. Warden-in-charge, Hall VIII (From May 2006 to July 2009)
13. Member, Advisory committee for Energy Management (From August 2007 to June 2009)
14. Vice-Chairman, Council of Wardens, IITK (September 2010 to August 2011)
15. Member, CEMMC, IIT Kanpur (September 2010 to December 2012)
16. Chairman, Council of Wardens, IITK (August 2011 to December 2012)
17. Member, Board of Governors, IIT Kanpur (January 2012 to December 2013)
18. Member, Green Cell, IIT Kanpur (2014 to Dec 2015)

19. Professor-in-Charge, Electrical Works, IIT Kanpur (January 2013 to Dec 2015)
20. Member, Environmental Advisory Committee, IIT Kanpur (2014 to Dec 2015)
21. Chairman, JEE (Advance) 2016
22. **Head, Electrical Engineering Department** ( Feb 2017 to date)

- Professional Experiences

- **Chairman**, Institution of Electronics & Telecommunication Engineers, Kanpur Center (2016-2018)
- **IEEE India Council-Elect 2017**
- **Coordinator**, IEEE R10 Conference and Technical Seminar (2015 to 2018)
- **Executive Committee Member**, IEEE UP Section, IITK Kanpur ( 2003-to date)
- **Executive Committee Member**, IE (India), Kanpur Local Center ( 2006-to date)
- **Executive Committee Member**, IETE, Kanpur Center ( 2014-to date)
- **Chairman**, IEEE UP Section, IITK Kanpur ( 2013-2014)
- **Chairman**, IEEE PES/IAS Chapter, IEEE UP Section ( 2012-2013)
- **Member, Board of Governors**, GB Pant Engg College, Pauri (Dec 2016 to date)
- **Academic Council members**, HBTU Kanpur (Dec 2016 to date), Graphic Era Hill Univ, Dehardun ( Jan. 2011 to date), KNIT Sultanpur (Nov 2014 to date)
- **Member Senate**, MNNIT Allahabad ( March 2013 to date)
- **Member Senate**, Sant Longowal Institute of Engg & Tech, Longowal (Nov 2016 to date)
- **Member Senate**, MANIT Bhopal (January 2013 to December 2016), IIT Mandi (January 2013 to December 2016)
- **Chairman**, Institution of Engineers (India), Kanpur Local Center ( 2010-2012)
- **Vice-Chairman**, IEEE UP Section, IITK Kanpur ( 2011-2012)
- **Executive Committee Member**, IE (India), UP State Center ( 2010-2012)
- **Treasurer**, IEEE UP Section, IITK Kanpur (2005)
- **Administrator**, IEEE Online Communities (January 2006 to date)
- **Moderator**, IEEE Online Communities (April 2003 to date)
- **Editorial Board member**, International Journal of Electricity Sector Management, UK
- **Editorial Board member**, International Journal of Electrical and Power Engineering
- **Associate Editor**, International Journal of Electrical Energy Systems
- **Editor**, International Journal of Systems Signal Control and Engineering Application
- **Editorial Board Editor**, International Journal of Renewable Energy Technology
- **Honorary Editorial Board Member**, Int. Journal of Bio-Sciences and Technology.
- **Associate Editor (Electrical)**, Int. Journal of Engineering, Sciences and Technology
- **Co-Guest Editor**, Int. J. of Engineering, Sciences and Technology (2009/10, 2010/11)
- **Co-Guest Editor**, International Journal of Electricity Sector Management (2009-10)
- **Co-Guest Editor**, International Journal of Energy Technology and Policy (2005-06, 2007)
- **Proof Editor**, Asian Journal of Geo-informatics (from Jan 2001 to Sept 2002).
- **Reviewer** of IEEE Transaction on Power Systems, Power Delivery, Energy Conversion, IET Proceeding: Generation, Transmission and Distribution, International Journal of Computer and Electrical Engineering, International Energy Journal, International Journal of Electric Power and Energy Systems, European Transaction on Electric Power, Electric Power Systems Research.

## LIST OF PUBLICATIONS

## Publications in Journals:

1. **SN Singh** and SC Srivastava, *Improved Voltage and Reactive Power Distribution Factors for Outage Studies*, **IEEE Trans. of Power Systems**, Vol.- PWRS-12, No.3, pp. 1085-1093, August 1997. This paper received the **Khosla Research Award** of University of Roorkee, India (1998).
2. **SN Singh** and SC Srivastava, *Corrective Action Planning to Achieve Feasible Optimal Load Flow Solution*, **IEE Proc., Part-C, Generation, Transmission and Distribution**, Vol. 142, No.6, pp. 576-582, November 1995.
3. **SN Singh**, PK Kalra and SC Srivastava, *Novel Non-Iterative Load Flow for Voltage Contingency Analysis*, **International Journal of Electrical Power & Energy System**, Vol. 16, No. 1, pp. 11-16, 1994.
4. JK Malhotra, AK Mitra and **SN Singh**, *Analysis of Distribution Losses of Lucknow City*, **published in Journal of The Society of Power Engineers (INDIA)**, Vol. 40 No. 3 & 4, pp. 10-15, July/Oct. 1992.
5. **SN Singh** and SC Srivastava, *Improved Contingency Selection Algorithm for Voltage Security Analysis*, **Journal of Electrical Machines and Power Systems**, Vol. 26, No.8, 1998, pp. 855-871.
6. L Srivastava, **SN Singh** and J Sharma, *Parallel Self-Organizing Hierarchical Neural Network Based Fast Voltage Estimation*, **IEE Proc. Part -C**, Vol. 145, No. 1 1998, pp. 98-104.
7. L Srivastava, **SN Singh** and J Sharma, *Knowledge Based Neural Network for Voltage Contingency Selection and Ranking*, **IEE Proc. Part-C**, Vol. 146, No. 6, November 1999, pp. 649-656. This paper received the **Khosla Research Award (Gold Medal)** from University of Roorkee (2000).
8. L Srivastava, **SN Singh** and J Sharma, *Modular Neural Network Based Fast Voltage Contingency Selection*, **the Journal of Institution of Engineers (India)**, Electrical Engg. Division, Vol. 80, No.-EL-3, pp. November 1999, pp.118-125.
9. L Srivastava, **SN Singh** and J Sharma, *A hybrid Neural Network Model for Fast Voltage Contingency Screening and Ranking*, **International Journal of Electric Power and Energy Systems**, Vol. 22, No.1, January 2000, pp. 35-42.
10. L Srivastava, **SN Singh** and J Sharma, *Estimation of Loadability Margin using Parallel Self Organizing Hierarchical Neural Network*, **International Journal of Computer and Electrical Engineering**, Vol. 26, No. 2, February 2000, pp. 151-167.

11. KN Srivastava, **SN Singh** and SC Srivastava, *Effect of Multiple Equilibria on Power System Stability*, **Electric Power Systems Research**, Vol. 55, No. 3, September 2000, pp. 165-172.
12. L Srivastava, **SN Singh** and J Sharma, *Comparison of Feature Selection Techniques for ANN Based Voltage Estimation*, **Electric Power Systems Research**, Volume 53, No. 3, March 2000, pp. 187-195.
13. **SN Singh**, L Srivastava and J Sharma, *Fast Voltage Contingency Screening and ranking using Cascade Neural Network*, **Electric Power Systems Research**, Volume 53, No. 3, March 2000, pp. 197-205.
14. **SN Singh** and AK David, *Towards Dynamic Security Constrained Congestion Management in Open Power Market*, **IEEE Power Engineering Review**, August 2000, pp.45-47.
15. **SN Singh** and AK David, *Optimal Transmission Dispatch with Optimizing FACTS Device Locations in Open Power Market*, **Journal of Automation of Electric Power Systems (China)**, Vol. 25, No.4, February 2001, pp. 20-25.
16. **SN Singh** and AK David, *Optimal Location of FACTS Devices for Congestion Management*, **Electric Power Systems Research**, Vol. 58, No.2, July 2001, pp. 71-79.
17. **SN Singh** and KN Srivastava, *Evolving Artificial Neural Network Models for Voltage Contingency Ranking*, **European Transaction on Electric Power (ETEP)**, Vol. 12, No.2, March/April, 2002, pp. 127-133.
18. **SN Singh**, *Estimation of Degree of Insecurity of Power System Using Functional Link Network*, **Science and Engineering Journal (Brazil)**, Vol. 9, No.2, July/December 2000, pp. 10-15.
19. **SN Singh**, *Challenges and Initiatives in Power Engineering Education*, **IEEE Computer Applications in Power**, Vol. 14, No. 2, April 2001, pp. 36-41.
20. KS Verma, **SN Singh** and HO Gupta, *Optimal Location of UPFC for Congestion Management*, **Electric Power Systems Research**, Vol. 58, No.2, July 2001, pp. 89-96.
21. **SN Singh** and NK Triptahi, *Writing and Publishing a Research Paper in Professional Journals: A Systematic Approach*, **Asian Journal of Geoinformatics**, Vol. 1, No. 3, March 2001, pp. 87-90.
22. L Srivastava, **SN Singh** and J Sharma, *Parallel Self-Organising Hierarchical Neural Network Based Fast Real Power Flow Estimation*" **Journal of the Institution of Engineers (India)**, Vol. 82, May 2001, pp. 16-20.

23. **SN Singh** and AK David, *A New Approach for Placement of FACTS Devices in Open Power Market*, **IEEE Power Engineering Review**, Vol. 21, No. 9, September 2001, pp. 58-60.
24. **SN Singh** and KN Srivastava, *Degree of Insecurity Estimation of Power System Using Functional Link Network*, **European Transaction on Electric Power**, Vol. 12, No. 5, September/October 2002, pp. 353-360.
25. **SN Singh** and AK David, *Dynamic Security in Open Power Market Dispatch*, **Electric Power Components and Systems**, Vol. 30, No.3, 2002, pp 315-330.
26. **SN Singh** and AK David, *Optimal Dispatch in Dynamic Security Constrained Open Power Market*, **International Journal of Electrical Power and Energy Systems**, Vol. 24, No. 5, August 2002, pp. 363-369.
27. **SN Singh** and GK Singh, *Graph Theory Based Dynamic Simulation of HVDC Link with GTO Inverter*, **the Science and Engineering Journal**, Vol. 10, No.2, July/December 2001, pp. 29-38.
28. **SN Singh**, *"Emerging Issues and New Challenges in Electric Power Systems"*, **International Energy Journal**, Vol. 2, No.2, December 2001, pp.53-66.
29. **SN Singh**, KG Upadhyay and DS Chuahan, *Investigation into Generation Excitation Effect on Electricity Pricing in Open Power Market*, **the Science and Engineering Journal**, Vol. 11, No.1, January/June 2002, pp. 111-116.
30. **SN Singh** and AK David, *Congestion Management in Dynamic Security Constrained Open Power Markets*, **International Journal of Computer and Electrical Engineering**, Vol. 29, No. 5, July 2003, pp. 575-588.
31. L Srivastava, **SN Singh** and J Sharma, *Parallel Self-Organising Hierarchical Neural Network based Estimation of Degree of Voltage Insecurity*, **International Journal of Computer and Electrical Engineering**, Vol. 29, No. 5, July 2003, pp. 589-602.
32. **SN Singh**, *A Practical Approach to Teach Power System Transients into the Electrical Engineering Curriculum*, **International Journal of Electrical Engineering Education, UK**, Vol. 40, No.2, April 2003, pp. 144-157.
33. T Jain, L Srivastava and **SN Singh**, *Fast Voltage Contingency Screening using Radial Basis Function Neural Network*, **IEEE Trans. on Power Systems**, Vol. 18, No. 4, November 2003, pp. 1359-1366.
34. Ashwani Kumar, SC Srivastava and **SN Singh**, *A Zonal Congestion Management Approach Using Real and Reactive Power Scheduling*, **IEEE Trans. on Power Systems**, Vol. 19, No. 1, February 2004, pp. 554-562.

35. Ashwani Kumar, SC Srivastava and **SN Singh**, *Available Transfer Capability Assessment in a Competitive Electricity Market using Bifurcation Approach*, **IEE Proc. on Generation, Transmission and Distribution**, Vol. 151, No. 2, March 2004, pp. 131-140.
36. Ashwani Kumar, SC Srivastava and **SN Singh**, *Available Transfer Capability (ATC) Determination in a Competitive Electricity Market using Distribution Factors*, **Electric Power Components and Systems**, Vol. 32, No.1, September 2004, pp. 927-939.
37. Ashwani Kumar, SC Srivastava and **SN Singh**, *A Zonal Congestion Management Approach Using AC Transmission Congestion Distribution Factors*, **Electric Power System Research**, Vol. 72, No. 1, December 2004, pp. 85-93.
38. JG Singh, V Pant and **SN Singh**, *Modeling of Generalized UPFC for Suitable Location and Power Flow Control*, **Iranian Journal of Electrical and Computer Engineering**, Vol. 3, No.2, pp.103-110, 2004.
39. **SN Singh** and SC Srivastava, *Status and Future Directions of Electric Power Industry Restructuring in India*, **CPRI R&D Journal**, Vol. II, No.1, 2005.
40. **SN Singh** and AK David, *Dynamic Security Constrained Pool Dispatch in Competitive Power Market*, **International Journal of Power and Energy Systems**, Vol. 25, No.1, 2005, pp. 6-13.
41. Gaurav Nanda, Sangeeta Yamgar, S.C. Srivastava, **SN Singh**, Praveen Gupta, Dharam Paul and R.M. Shrestha, *Implications of Carbon Tax on Generation Expansion Plan & GHG Emission: A Case Study on Indian Power Sector*, **International Journal of Emerging Electric Power Systems**, Vol. 3, No.1, 2005.
42. Ashwani Kumar, **SN Singh** and SC Srivastava, *Congestion Management in Competitive Power Market: A Bibliographical Survey*, **Electric Power Systems Research**, Vol. 76, No. 1-3, pp 153-164, 2005.
43. B Kalyan Kumar, **SN Singh** and SC Srivastava, *Optimal Control Strategy Using Pseudo-Decentralization for Coordination of Power System Stabilizer and FACTS in a Multi-machine System*, **International Energy Journal, AIT Bangkok**, Vol. 6, No. 1, 2005.
44. JG Singh, **SN Singh** and SC Srivastava, *A Sensitivity Based Approach for Optimal Location of Multi-Converter Unified Power Flow Controller Considering Its Impact on Generation and Wheeling Costs*, **International Journal of Energy Technology and Policy (IJETP)**, Vol. 4, No. 3/4, 2006, pp. 394-409.
45. **SN Singh**, *Flexible AC Transmission Systems Controllers: An Overview*, **International Journal of Energy Technology and Policy (IJETP)**, Vol. 4, No. 3/4, 2006, pp. 236-254.
46. **SN Singh**, *Present and Future of Flexible AC Transmission Systems (FACTS) Controllers in the Power Systems*, **(Editorial) International Journal of Energy Technology and Policy (IJETP)**, Vol. 4, No. 3/4, 2006, pp. 229-235.



47. SK Srivastava, KG Upadhyay and **SN Singh**, *Performance Analysis of Unified Power Flow Controller Using Fuzzy-PI Control*, **The Journal of CPRI, Bangalore**, Vol. 3, No. 1, September 2006, pp 37-44.
48. B. Kalyan Kumar, **SN Singh** and SC Srivastava, *A decentralized nonlinear feedback controller with prescribed degree of stability for damping power system oscillations*, **Electric Power Systems Research**, Vol. 77, No. 3-4, March 2007, pp. 204-211.
49. M. Rajender and **SN Singh**, *GIS/GPS Integration in Electric Power Distribution Automation*, **International Journal of Geoinformatics**, Vol. 3, No.1, March 2007, pp. 19-27.
50. B. Kalyan Kumar, **SN Singh** and SC Srivastava, *Placement of SVC, TCSC and UPFC using Controllability Index Method to Damp Out Inter-Area Oscillations*, **IEE Proc. Generation, Transmission & Distribution**, Vol. 1, No.2, March 2007, pp. 209-217.
51. Ashwani Kumar, SC Srivastava and **SN Singh**, *Available Transfer Capability in Competitive Power Market: A Bibliographical Survey*, **CPRI R&D Journal**, Vol. 3, No.2, March 2007, pp. 151-172.
52. SK Srivastava, KG Upadhyay and **SN Singh**, *Impact of Internal Operating Constraints of GUPFC on Power Flow Control*, **International Review of Electrical Engineering**, April 2007.
53. JG Singh, **SN Singh** and SC Srivastava, *An Approach for Optimal Placement of Static VAR Compensators based on Reactive Power Spot Price*, **IEEE Trans. on Power Systems**, Vol. 22, No.4, November 2007, pp. 2021-2029.
54. P Bajpai and **SN Singh**, *Fuzzy Adaptive Particle Swarm Optimization for Bidding Strategy in Uniform Price Spot Market*, **IEEE Trans. on Power Systems**, Vol. 22, No.4, November 2007, pp. 2152-2160.
55. **SN Singh** and I Erlich, *Optimal Estimation of Block-Wise Incremental Cost for Bidding in the Electricity Markets*, **Electrical India**, Vol. 47, No. 12, December 2007, pp. 48-62.
56. V. S. Pappala, M. Wilch, I. Erlich, and S. N. Singh, *Reactive Power Management Using Adaptive PSO in Grid Connected Offshore Wind Farms*, **International Journal of Engineering Intelligent Systems**, Vol. 15, No.2, June 2007.
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312. Mahesh Kumar, **S.N. Singh** and S. C. Srivastava, *Development of Control Strategy for Hybrid Energy Storage System in a DC Microgrid*, **5<sup>th</sup> International Conference on Power Systems (ICPS)**, October 28-30, 2013, Kathmandu.
313. Anup Shukla and **S.N. Singh**, *Pseudo-Inspired PSO for Solving Unit Commitment Problem Including Renewable Energy Sources*, **5<sup>th</sup> International Conference on Power Systems (ICPS)**, October 28-30, 2013, Kathmandu.

314. D. Saxena and SN Singh, *Analysis of Multiple Power Quality Events Based on Hilbert Huang Transform*, **IEEE Computation Society Workshop**, July 14, 2013, IIT Kanpur, pp. 137-142. (received **Best Presentation Award**)
315. Sachin Kumar Jain, S. Chakrabarti and S. N. Singh, *Review of Load Frequency Control Methods, Part-I: Introduction, Pre-deregulation Scenario*, **First International Conference on Control, Automation, Robotics and Embedded systems (CARE-2013)**, December 16-18, Jabalpur, India.
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318. Mahesh Kumar, S.N. Singh and S. C. Srivastava, *Dynamic Performance Analysis of DC Microgrid with a Proposed Control Strategy for Single-Phase VCVSI*, **2014 IEEE PES Transmission & Distribution Conference & Exposition, Chicago**, USA, April 14-17, 2014.
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321. D Panda, SN Singh and V Kumar, *Risk Constraint Profit Maximization in a Multi-Electricity Market*, **2014 IEEE PES General Meeting**, Washington DC, July 27 - 31, 2014.
322. Anup Shukla and SN Singh, *Cluster based Wind-Hydro-Thermal Unit Commitment Using GSA Algorithm*, **2014 IEEE PES General Meeting**, Washington DC, July 27 - 31, 2014.
323. DD Sharma and SN Singh, *Electrical Load Profile Analysis, Peak Load Assessment using Clustering Technique*, **2014 IEEE PES General Meeting**, Washington DC, July 27 - 31, 2014
324. R. K. Chauhan, B. S. Rajpurohit, R. E. Hebner, SN Singh and F. M. Gonzalez-Longatt, *Voltage Standardization of DC Distribution System for Residential Buildings*, 4th Int. Conference on **Power and Energy Systems**, Singapore, Nov. 21-23, 2014.



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326. Khoisnam Steela, Bharat Singh Rajpurohit, **SN Singh**, *Power Education Revolution- A Journey Towards a Smarter Future Power Sector*, **2nd International Conference on Transformations in Engineering Education (ICTEE 2015)**, 5-8 January 2015, Bangalore. (Also Published in Journal of Engineering Education Transformations, Vo. 28, No. 2 &3, Oct 2014 & Jan 2015, pp. 6-14.)
327. Frances Brazier, Han La Poutre, AR Abhyankar, Kritika Saxena, **SN Singh**, KK Tomar, *A Review of Multi Agent Based Decentralised Energy Management Issues*, **First UP Section Conference – International Conference on Energy Economics and Environment ICEEE2015**, During March 26-28, 2015 at Galgotias College of Engineering & Technology Greater Noida.
328. DD Sharma , **SN Singh**, *Designing Community Energy Storage System For Peak Saving Application With Load Pattern Data*, **5<sup>th</sup> International Exhibition and Conference, GRIDTECH2015**, New Delhi during April 8-9, 2015.
329. Anup Shukla and **SN Singh**, *Unit Commitment Using Advanced Three-Stage Approach*, **2<sup>nd</sup> International Conference on National Capacity Building Strategy for Sustainable Development And Poverty Alleviation**, Dubai, 26-28 May, 2015, pp. 477-484.
330. D Panda, **SN Singh** and V Kumar, *Option Electricity Market Design Under UI Mechanism in India*, **2<sup>nd</sup> International Conference on National Capacity Building Strategy for Sustainable Development And Poverty Alleviation**, Dubai, 26-28 May, 2015, pp. 503-510.
331. Mahesh Kumar, SC Srivastava and **SN Singh**, *Real Time Simulation of a DC Microgrid with Control Schemes for Power Management and Voltage Stabilization*, **ASME Power & Energy 2015: Energy Solutions for a Sustainable Future**, San Diego, USA, June 28-July 2, 2015.
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333. Anup Shukla, V. N. Lal, and **SN Singh**, *Profit based unit commitment problem using PSO with modified dynamic programming*, **18th Intelligent Systems Applications to Power Systems Conference and Debate**, Porto, Portugal, Sep-2015, pp.1-6.
334. Francisco Gonzalez-Longatt, Bharat Singh Rajpurohit and **SN Singh**, *Smart Multi-Terminal DC  $\mu$ -grids for Autonomous Zero-Net Energy Buildings: Implicit Concepts*, **2014 IEEE Innovative Smart Grid Technologies Conference, Asia (ISGT ASIA)**, November 5-8, 2015, Bangkok, Thailand.

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337. Gaurav Pandey, SN Singh, Bharat Singh Rajpurohit and Francisco M. Gonzalez-Longatt, *Protection and Energy Management of Zero Net Electric Energy Clusters of Buildings*, **4th Students' Conference on Engineering and Systems 2015 (SCES2015)**, MNNIT Allahabad, November 6-8, 2015.
338. Sheetanshu Mishra and SN Singh, *Indian Electricity Market: Present Status and Future Directions*, **The IEEE Uttar Pradesh Section Conference on Electrical, Computer and Electronics (UPCON 2015)**, Indian Institute of Information Technology Allahabad, December 4-6, 2015.
339. K.K. Singh Tomar, SN Singh, *Energy Management and Control of Microgrid using Multi-Agent Systems*, **The IEEE Uttar Pradesh Section Conference on Electrical, Computer and Electronics (UPCON 2015)**, Indian Institute of Information Technology Allahabad, December 4-6, 2015.
340. Gaurav Pandey, SN Singh, Bharat Singh Rajpurohit, Francisco Gonzalez-Longatt, *Smart DC Grid for Autonomous Zero Net Electric Energy of Cluster of Buildings*, **9th IFAC symposium on Control of Power and Energy Systems**, New Delhi, December 9-11, 2015.
341. Chitaranjan Phurailatpam, Rohit Sangral, Bharat Singh Rajpurohit, SN Singh and Francisco Gonzalez-Longatt, *Design and Analysis of a DC Microgrid with Centralized Battery Energy Storage System*, **2015 Annual IEEE India Conference (INDICON)**, JMI, New Delhi, December 17-20, 2015.
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343. DD Sharma, SN Singh, Jeremy Lin and Elham Foruzan, *Distributed Control Scheme Based on Agents' Behaviour for Distributed Energy Storages*, **2016 IEEE PES General Meeting**, Boston, USA, July 17-21, 2016.
344. Sheetanshu Mishra, Praveen P Singh and SN Singh, *Impact of Regulation Ancillary Service in Indian Electricity Market*, **International Conference on Recent Trends in Electrical and Electronics & Communication Engineering**, BIET Jhansi, Oct 15-16, 2016

345. Archana Sharma, B Rajpurohit, Samar Agnihotri, **SN Singh**, *Evaluation of New Power Quality Indices Proposed for Estimation of Economic Loss Due to Poor Power Quality*, **IEEE Region 10 Conference (TENCON 2016)**, Singapore, Nov 22-25, 2016.
346. Francisco Gonzalez-Longatt, Bharat S Rajpurohit, **SN Singh** and Jose Luis Rueda Torres, *Simulation Platform for Autonomous Smart Multi-Terminal DC Micro-Grid*, **IEEE PES Innovative Smart Grid Technologies Conference**, 2016, Asia (ISGT ASIA), Melbourne, Australia during Nov 28 - Dec 1, 2016.
347. Bhaskar Kanna and SN Singh, *Long Term Wind Power Forecast Using Adaptive Wavelet Neural Network*, **IEEE UP Section Conference (UPCON)**, IIT BHU Varanasi, Dec 9-11, 2016
348. Ankit Jain and Praveen P Singh, and **SN Singh**, *Control Strategies for Output Power Smoothing of DFIG with SVC in Wind Conversion System*, **IEEE R10 HTC Conference**, DEI Agra, Dec 21-23, 2016.
349. Gang Li, Jianfu Zhang, Yu Song, Fushuan Wen, **SN Singh** and Kai Feng, *Real-time health status evaluation for wind turbines based on a cloud model*, **IEEE R10 HTC Conference**, DEI Agra, Dec 21-23, 2016.
350. Jai Govind Singh, **S N Singh** and S C Srivastava, *Congestion Management by using FACTS Controller in Power System*, **IEEE R10 HTC Conference**, DEI Agra, Dec 21-23, 2016.
351. Varsha Shukla, Abheejeet Mohapatra and SN Singh, *On Adaptive Fault Current Limiter in Distribution Systems with Distributed Generations*, **IEEE TENSYPMP 2017**, Kochi, Kerala, 14-16 July 2017.
352. Viresh Patel, Saikat Chakraborti and SN Singh, *A Hopfield Neural Network based Reconfiguration Algorithm for Power Distribution Systems*, **IEEE TENSYPMP 2017**, Kochi, Kerala, 14-16 July 2017.
353. DD Sharma, SN Singh, *Agent-Based Distributed Control Scheme For Distributed Energy Storages Based On Forecast Uncertainties*, **2017 IEEE PES General Meeting**, July 16 - 20, 2017, Chicago, USA.

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358. L Srivastava, **SN Singh** and J Sharma, *Estimation of Loadability Margin Using Parallel Self-Organising Hierarchical Neural Network*, **Proc. of 10th National Power System Conference**, 14-16 October 1998, Vadodara, pp. 311-316.
359. **SN Singh** and SC Srivastava, *Genetic Algorithm and its Applications to Power System problems*, **Proc. of 10th National Power System Conference**, 14-16 October 1998, Vadodara, pp. 289-297.
360. Daya Kishan and **SN Singh**, *Environmental Constrained Unit Commitment Using Fuzzy Dynamic Programming*, **Proc. of All India Seminar on Electric Energy System Management - Indian Scenario**, 4-5 September 1998, Roorkee, pp. 79-85.
361. L Srivastava, **SN Singh** and J Sharma, *New Feature Selection Technique for Voltage Prediction*, **Proc. of All India Seminar on Electric Energy System Management - Indian Scenario**, 4-5 September 1998, Roorkee, pp. 122-128.
362. L Srivastava, **SN Singh** and J Sharma, *Fast Line Flows Estimation Using Parallel Self-Organising Hierarchical Neural Network*, **11th National Power System Conference**, 20-22 December 2000, Bangalore, India.
363. KG Upadhyay, KS Verma and **SN Singh**, *Restoration Problem - Key Issues and Constraints*, **National conference on Trends in Industrial electronics, transducers, controls and communication (TIET.COM 2000)**, Patiala, November 14-15, 2000, pp. 104-109.
364. KG Upadhyay, **SN Singh**, DS Chuahan and GS Srivastava, *Restructuring and Privatization of Electricity Utilities- An Overview*, **National conference on Trends in Industrial electronics, transducers, controls and communication (TIET.COM 2000)**, Patiala, November 14-15, 2000, pp. 110-115.
365. T Jain, L Srivastava, M Pandit and **SN Singh**, *Radial Basis Function Neural Network Based Fast Voltage Contingency Ranking*, **12<sup>th</sup> National Power System Conference**, December 27-29, 2002, IIT Kharagpur (India), pp. 791-795.

366. SK Srivastava, KG Upadhyay and SN Singh, "FACTS Devices and Their Controllers", **12<sup>th</sup> National Power System Conference**, December 27-29, 2002, IIT Kharagpur (India), pp. 468-473.
367. JG Singh and SN Singh, *Optimal Power Flow Control Using Generalized Unified Power Flow Controller*, **National Conference on Modern aspect of FACTS and its Applications at Coimbatore**, August 29-30, 2003, pp. 89-97.
368. T Jain, L Srivastava and SN. Singh, *Voltage Security assessment using Unsupervised and Supervised Learning*, **Proceedings of All India Jamia Electrical Engineering Conference 2003, Jamia Millia Islamia, New Delhi**, Aug 16-17,2003.
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371. Praveen Traipathy, SN Singh and SC Srivastava, *Power Flow Analysis with Optimally Placed D-STATCOM in Distribution System*, **13<sup>th</sup> National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 128-133.
372. OP Dwivedi, JG Singh and SN Singh, *Simulation and Analysis of Unified Power Flow Controller Using SIMULINK*, **13<sup>th</sup> National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 1048-1054.
373. P Bajpai and SN Singh, *Bidding and Gaming in Competitive Power Market: An Overview and Key Issues*, **13<sup>th</sup> National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 338-346.
374. J Krishna, L Srivastava, M Pandit and SN Singh, *On-line Contingency Analysis Using Counterpropagation Neural Network*, **13<sup>th</sup> National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 333-337.
375. SK Srivastava, LN Giri, KG Upadhyay and SN Singh, *Analysis of Internal Operating Limits of UPFC for Power Flow Control*, **13<sup>th</sup> National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 890-895.
376. JG Singh, SN Singh and SC Srivastava, *Optimal Placement of TCSC for Enhancing Power System Loadability*, **National Conference on Electric Power Technology, Management and IT Application, MMMEC Gorakhpur**, February 17-18, 2006.
377. MM Tripathi, SN Singh and KG Upadhyay, *Artificial Intelligence Technique for Load Forecasting, Bid Forecasting and Market Clearing Price Prediction in Power Systems: An Overview*, **National Conference on Electric Power Technology, Management and IT Application, MMMEC Gorakhpur**, February 17-18, 2006.

378. SK Srivastava, KG Upadhyay and **SN Singh**, *FACTS Technology in Deregulated Electricity Market: An Overview*, **National Conference on Electric Power Technology, Management and IT Application, MMMEC Gorakhpur**, February 17-18, 2006.
379. JG Singh, **SN Singh** and SC Srivastava, *Optimal Placement of TCPAR for Enhancing Power System Loadability*, **National Conference on Technical Challenges in Power Systems, KNIT Sultanpur**, March 24-25 2006, pp. 207-211.
380. Deepti Shakya, UK Dwivedi and **SN Singh**, *Simulation of Power Quality Problems for Analysis and Characterization*, **National Conference on Technical Challenges in Power Systems, KNIT Sultanpur**, March 24-25 2006, pp. 1-10.
381. JG Singh and **SN Singh**, *Enhancing Power Systems' Security Using FACTS Controllers*, **National Seminar on Voltage Stability (SVC'06), at Arulmigu Kalasalingam College of Engineering, Tamil Nadu**, October 13-14, 2006. (**Keynote Paper**).
382. Bharat Singh Rapurohit and **SN Singh**, *An Efficient Adaptive Hysteresis Band Current Controller For Active Power Filters*, **15<sup>th</sup> IEEE Annual Symposium 2006**, 24-25 Nov 2006.
383. T Jain, **SN Singh** and SC Srivastava, "Fast Available Transfer Capability Determination using Artificial Neural Network", **National Conference on Advances in Electrical Engineering (AEE 2006)**, Gwalior, November 29-30, 2006, pp. 509-513.
384. GC Sethi P Tripathy, **SN Singh** and SC Srivastava, *A Sensitivity Based Approach for Optimal Placement of Distributed Generators in Power System*, **Proceedings of National Power Systems Conference, IIT Roorkee (India)**, December 27-29, 2006.
385. NM Pindoriya, **SN Singh** and SK Singh, *Short-Term Zonal Load Forecasting in PJM Electricity Market Based on Adaptive Wavelet Neural Network*, **IEEE Sponsored Student paper Contest and Technical Symposium (SPCTS-2007) held in DA-IICT, Gandhinagar, India** during 28-30 September 2007 (**Got First Prize**).
386. Seethalekshmi K., **SN Singh** and SC Srivastava, *Wide-Area Protection and Control: Present Status and Key Challenges*, **15<sup>th</sup> National Power System Conference (NPSC08), IIT Bombay**, during December 16-18, 2008, pp. 169-175.
387. T Jain, **SN Singh** and SC Srivastava, *Dynamic Available Transfer Capability Evaluation Considering Hopf Bifurcation Limit*, **15<sup>th</sup> National Power System Conference (NPSC08), IIT Bombay**, during December 16-18, 2008, pp. 55-60.
388. BS Rapurohit and **SN Singh**, *Renewable Energy Status and Vision in India*, **National Seminar on Non-Conventional Energy Resources & Its Application (NCERU09)**, February 27-28, 2009, KNIT Sultanpur, pp. 20-29.

389. **SN Singh**, J Østergaard and Naveen Jain, *Distributed Generation in Power System: An Overview and Key Issues*, **24<sup>th</sup> Indian Engineering Congress, NIT Surathkal, Kerala**, December 10-13, 2009.
390. Naveen Jain, **SN Singh** and SC Srivastava, *Particle Swarm Optimization Based Optimal Siting and Sizing of Multiple Distributed Generations*, **16<sup>th</sup> National Power Systems Conference, Hyderabad**, December 15-17, 2010.
391. K Bhaskar and **SN Singh**, *Wind Speed Forecasting using Multu-resolution Analysis based Adaptive Wavelet Neural Network*, **16<sup>th</sup> National Power Systems Conference, Hyderabad**, December 15-17, 2010.
392. Sachin K Jain and **SN Singh**, *AWNN based Harmonic Estimation in Renewable Energy Sources*, **National Seminar in Recent Advances in Electrical Power and Energy System Management (RAEPESM-2011)**, March 25-26, 2011, MMMEC Gorakhpur (**got Best Paper Award**).
393. D Saxena, **SN Singh** and KS Verma, *Denoising of Power Quality Events Using Wavelets*, **National Seminar in Recent Advances in Electrical Power and Energy System Management (RAEPESM-2011)**, March 25-26, 2011, MMMEC Gorakhpur.
394. D Saxena, **SN Singh** and KS Verma, *Characterization of Power Quality events with wavelet transform*, **National Seminar in Recent Advances in Electrical Power and Energy System Management (RAEPESM-2011)**, March 25-26, 2011, MMMEC Gorakhpur (**got Best Paper Award**).
395. P Pavani and **SN Singh**, *Cost Benefit Analysis of Distributed Generations Placed in Distribution Systems*, **Annual Technical Session of 94<sup>th</sup> Annual General Meeting, IE(I), UP State Center, Lucknow**. November 29, 2014. (**Got Er Hari Mohan Memorial Award**).
396. VN Lal and **SN Singh**, *PQ Capability Curve of a Single-Stage Utility Grid Connected PV System*, **94<sup>th</sup> Annual General Meeting, IE(I), UP State Center, Lucknow**. November 30, 2014. (**Got Dr PS Nigam Power Sector Award-2014**).
397. Sanjeev Mallik, Saikat Chakrabarti and **SN Singh**, *An Investigation on the Numerical Ill-conditioning of Hybrid State Estimators*, **18<sup>th</sup> National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
398. Shiv Singh, Bibhu Padhy, Saikat Chakrabarti, **SN Singh**, Amol Kolwalkar and Shekhar Kelapure, *Development of Dynamic Test Cases in OPAL-RT Real-time Power System Simulator*, **18<sup>th</sup> National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
399. Vivek Lal, **SN Singh**, *Single-Stage Utility-Scale PV System with PSO Based MPPT Controller*, **18<sup>th</sup> National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.

400. Debasmita Panda, **SN Singh** and Vimal Kumar, *Risk Constrained Profit Maximization under UI Mechanism in India*, **18<sup>th</sup> National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
401. Shikha Chittora and **SN Singh**, *Coherency Based Dynamic Equivalencing of Electric Power System*, **18<sup>th</sup> National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
402. AK Jain, **SN Singh**, SC Srivastava and L Srivastava, *Bacteria Foraging Optimization Algorithm Based Strategic Bidding In Electricity Markets*, **18<sup>th</sup> National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
403. Kanna Bhasker and **SN Singh**, *Predictive Short-Term ORPD in Large Wind Farms for Minimization of Losses and OLTC Tap Movements*, **19<sup>th</sup> National Power Systems Conference, IIT Bhubaneswar**, December 19-21, 2016.
404. Gaurav Khare, **SN Singh**, Abheejet Mohapatra and S Rajan, *Prediction of Missing PMU Measurement using Artificial Neural Network*, **19<sup>th</sup> National Power Systems Conference, IIT Bhubaneswar**, December 19-21, 2016.
405. Pragya K Gupta, R Martin, Saikat Chakraborti, A Debidas, Kari M, G Krishna, Bernhard S, Manesh Ramesh and **SN Singh**, *Improving Reliability and Quality of Supply(QoS) in Smart Distribution Network*, **19<sup>th</sup> National Power Systems Conference, IIT Bhubaneswar**, December 19-21, 2016.
406. Anup Shukla, S Keshawani and **SN Singh**, *Efficient Holomorphic Based Approach for Unit Commitment Problem*, **19<sup>th</sup> National Power Systems Conference, IIT Bhubaneswar**, December, 19-21, 2016.

#### **Short Papers/Discussions in Refereed Journals:**

407. **SN Singh** et al, *Engineer and Expert System in Information Age*, Seminar on Information Age, **The Institution of Engineers (India), Computer Division**, April 6-7, 1991, Lucknow.
408. SC Srivastava, PK Kalra and **SN Singh**, 'Discussion to the paper by M. Norooziaan and G. Anderson, *Power Flow Control by use of Controllable series Component*, **IEEE Trans on Power Delivery**, Vol. 8 No. 3, pp. 1420-1429, July 1993.
409. KN Srivastava, SK Joshi and **SN Singh**, Discussion of IEEE paper #WM 064-6~PWRD titled *Damping of Power System Oscillations by Use of Controllable Components*, **IEEE T-PWRD Oct 1994**.
410. KN Srivastava, **SN Singh** and SK Joshi, Discussion of IEEE paper #SM 515-7~PWRS titled *A Generation Rescheduling Method to Increase the Dynamic Security of Power System*, **IEEE T-PWRS Feb 95**.



411. KN Srivastava, SK Joshi and **SN Singh**, Discussion of IEEE paper # WM 245-1~PWRS titled *Computation of a Practical Method to Restore Power Flow Solvability*, **IEEE T-PWRS Feb 95**.
412. SK Joshi, A Chandramouli, **SN Singh** and KN Srivastava, Discussion of IEEE paper # 94 WM 219-6~PWRS titled *Static Security in Power System Operation in Fuzzy Real Load Conditions*, **IEEE T-PWRS Feb 95**.
413. SC Srivastava, KN Srivastava, **SN Singh** and SK Joshi, Discussion of IEEE paper # 94 SM 578-5 PWRS titled *On Bifurcation, Voltage Collapse And Load Modeling*, **IEEE T-PWRS Feb 1995**.
414. **SN Singh**, KN Srivastava and SK Joshi, Discussion of IEEE paper # SM 535-5 PWRS titled *Parallel Implementation of Power System Transient Stability Analysis*, **IEEE T-PWRS Vol.10, No.3, pp. 1226-1233, August 1995**.
415. **SN Singh**, KN Srivastava and SK Joshi, Discussion of IEEE paper # SM 537-1 PWRS titled *A Hybrid Tool to Assist the Operator in Reactive Power/Voltage Control and Optimization*, **IEEE T-PWRS May Vol-10, N0.2, pp. 753-759, May 1995**.
416. SC Srivastava, KN Srivastava, **SN Singh** and SK Joshi, Discussion of IEEE paper # 94 SM 578-5 PWRS titled *Effects of Load Dynamics on Power System Damping*, **submitted to IEEE T-PWRS May Vol-10, N0.2, pp. 1022-1028, May 1995**.
417. SC Srivastava, KN Srivastava, **SN Singh** and SK Joshi, Discussion of IEEE paper # 94 SM 514-0 PWRS titled *New Methods for Computing a Saddle Node Bifurcation Point for Voltage Stability Analysis*, **IEEE T-PWRS May Vol-10, N0.2, pp. 978-989, May 1995**.
418. **SN Singh** and KN Srivastava, Discussion of IEEE paper # PE-278 EC 98 titled *A Neural Network Based Power System Stabilizer Suitable for On-line Training – A Practical Case Study for EGAT System*, **IEEE T-EC, Vol. 15, No.4, December 2000, pp. 494**.

#### **Invited Lectures/papers**

419. **SN Singh**, *Role of FACTS Devices in Competitive Power Market*, **Workshop on Deregulation in Power Industry organized by IIT Bombay**, November 18-19, 2002.
420. **SN Singh**, *Power System Restructuring Models*, **Workshop on Deregulation in Power Industry organized by IIT Bombay**, November 18-19, 2002.
421. **SN Singh**, *Power System Restructuring: An Introduction*, **QIP sponsored short term course on Electric Power System Operation and Management in Restructured Environment**, IIT Kanpur, 21-25 July 2003, pp. A.1-A.14.
422. **SN Singh**, *Electric Utility Restructuring: International Experiences*, **QIP sponsored short term course on Electric Power System Operation and Management in Restructured Environment**, IIT Kanpur, 21-25 July 2003, pp.A.15-A.38.

423. **SN Singh**, *Power System Restructuring Models*, **QIP sponsored short term course on Electric Power System Operation and Management in Restructured Environment**, IIT Kanpur, 21-25 July 2003, pp. A.39-A.56.
424. **SN Singh**, *Market Power*, **QIP sponsored short term course on Electric Power System Operation and Management in Restructured Environment**, IIT Kanpur, 21-25 July 2003, pp.A.57-A70.
425. **SN Singh**, *Role of FACTS Devices in Competitive Power Market*, **QIP sponsored short term course on Electric Power System Operation and Management in Restructured Environment**, IIT Kanpur, 21-25 July 2003, pp.A.71-A.104.
426. **SN Singh**, *Future of FACTS Controllers in Restructured Power System*, **National Conference on Modern aspect of FACTS and its Applications at Coimbatore**, August 29-30, 2003, pp. I-XI (**Keynote paper**).
427. **SN Singh**, *Evolutionary Computation*, **ISTE sponsored short term course on ANN and Fuzzy Logic Application to Electrical Engineering at MITS Gwalior**, January 19-25, 2004.
428. **SN Singh**, *Artificial Neural Network: An Introduction*, **ISTE sponsored short term course on ANN and Fuzzy Logic Application to Electrical Engineering at MITS Gwalior**, January 19-25, 2004.
429. **SN Singh**, *Power System Restructuring: An Introduction*, **ISTE sponsored short term course on ANN and Fuzzy Logic Application to Electrical Engineering at MITS Gwalior**, January 19-25, 2004.
430. **SN Singh**, *Power System Security in Deregulated Environment*”, **National Seminar on Voltage Stability (SVC’06)**, at Arulmigu Kalasalingam College of Engineering, Tamil Nadu, October 13-14, 2006 (**Keynote Paper**).

## Studies/Reports

1. S.N. Singh, Sachchidanand and G.K. Dubey: "Performance Study of HVDC Link with GTO Inverter", Technical Report No. DOE/IITK/7/89/3, Department of Electrical Engineering, IIT Kanpur, 1989.
2. S.N. Singh, "Mitigation of Greenhouse Gases From Power Sector in India Through Efficient Demand Side Options: An Integrated Resource Planning Perspective" Energy Program, School of Environment, Resources and Development, Asian Institute of Technology, Bangkok, Thailand, August 1997.
3. S.N. Singh, "Optimal location of FACTS devices in Competitive Power Market" Asian Institute of Technology, Bangkok, Thailand, March 2002.
4. S.N. Singh and S.C. Srivastava, "Enhancement of Power Systems' Performance using Flexible AC Transmission Systems (FACTS) in Competitive Power Market", Central Power Research Institute Bangalore, India, June 2006.
5. SN Singh and SC Srivastava, Assessment and Analysis of Electric Power Quality Problems using Artificial Intelligence and Advanced Digital Signal Processing Techniques, DST New Delhi, June 2008.

*Following studies were carried out and reports were compiled with other officers of U.P. State Electricity Board, India.*

6. Power System Analysis for Complex Primary Transmission and Transformation System. (1989)
7. State Electricity Board System Studies: Anapara- Unnao 765 kV Line. (1989)
8. Capacitor Requirement of U.P.S.E.B in year 1991-92. (1990)
9. Evacuation System of Tehri-Koteshwar Hydro Complex. (1990)
10. Fault Analysis of Complete U.P. Power System: 552 Transformation Buses of Primary Systems. (1990)
11. System Studies for 1994-95. (1990)
12. Analysis of Distribution Losses of Lucknow Electricity Supply Undertaking System, India. (1991)
13. Transmission System Requirement for Evacuation of Anapara-B Project Power. (1991)
14. Transmission System for Evacuation of Power from Singrauli and Rihand Super Thermal Power Station of National Thermal Power Corporation.(1991)
15. Short Circuit Studies of 2000 AD. (1991)
16. Power Loss in Transmission System for 1991-92. (1991)
17. Evacuation System for Belthara Road Power Station of 2000 AD. (1992)
18. Fault Level of Tehri Hydro Development Corporation along with U.P.S.E.B System. (1992)
19. Substation requirement of U.P. Power System with NTPC. (1992)
20. Start-up Power for Obra, Anapara and Singrauli Thermal Power Station. (1992)
21. Evacuation System of Anapara-C. (1993)

22. MW Power Flow Sultanpur 220 kV Substation for M/s Usha Rectifier. (1993)
23. 8th Five Year Plan (1996-97) Power System. (1994)
24. Revised Northern Capital Region System Power Evacuation. (1994)
25. Short Circuit Studies for year 2001-02. (1995)

## Conferences/Courses/Symposia/Workshops Attended

1. One month thermal training at Thermal Training Institute, Obra and one month management training at Staff College Dehradun (UP).
2. National Seminar on Multi-Phase System, organized by IE (INDIA) & IIT Kanpur, March 17-18, 1989, IIT Kanpur.
3. National workshop on Emerging Technology and their Application in Power Apparatus and Systems, December 12-14, 1989, IIT Kanpur.
4. Fifth Indian Engineering Congress, December 16-18, 1990, IIT Kanpur.
5. Seminar on Role of Professional Engineers in Emerging Information Age, April 6-7, 1991, I.E. Lucknow.
6. Short Term Course on Recent Advances in Power System and Use of Computer Technology, Sponsored by UPSEB Training & HRD Directorate Lucknow, May 6-11, 1991, IIT Kanpur.
7. Symposium on Compensation Techniques, October 22-23, 1991, Bharat Heavy Electrical Ltd. (BHEL), Bhopal.
8. Fifth National Workshop on HVDC Transmission, Oct 13-17, 1992, IIT KANPUR.
9. A one-week short-term course on Artificial Neural Network Applications to Power Systems conducted at Indian Institute of Technology, Kanpur.
10. 58th R & D Session of Central Board of Irrigation and Power (CBIP), April 18-22, 1993, Bangalore.
11. All India seminar on Grid Stability and Load Management with MW & MVAR Control (GRIDSAFE-93), October 29-30, 1993, Nagpur.
12. Seventeenth National System Conference organized by Indian Institute of Technology, Kanpur, December 24-26, 1993.
13. 59th R & D Session of CBIP, February 1-4, 1994, Calcutta.
14. All India Seminar on Digital Protection of Power Apparatus and Systems organized by Indian Institute of Technology, Kanpur, March 11-12, 1994.
15. A two-day workshop on New Perceptions in Power System Stability conducted at Indian Institute of Technology, Bombay, July 28-29, 1994.
16. Eighth National Power System Conference at Indian Institute of Technology, New Delhi, December 14-17, 1994.
17. An Intensive Course on Modern Trends in Power System Protection organized by Indian Institute of Technology, Kanpur, May 8-13, 1995.
18. National workshop on Voltage Instability in Electric Power System and FACT Technology organized by IEEE UP-Section and CBIP New Delhi at I.I.T. Kanpur (INDIA), July 20-22, 1995.
19. International Conference on Water & Energy 2001 in the 60th R & D session of C.B.I.P., New Delhi, October 9-12, 1995.
20. Ninth National Power System Conference at Indian Institute of Technology, Kanpur, Dec. 17-21, 1996.
21. International Conference on Computer Application in Electrical Engg. - A Recent Advances (CERA97) organized by University of Roorkee, India, 8-11 September 1997.
22. 2nd International R& D Conference of C.B.I.P. New Delhi at Vadodara, 21-24 October 1997.
23. All India Seminar on Electric Energy System Management- Indian Scenario, at Roorkee University, Roorkee, September 4-5, 1998.
24. 10<sup>th</sup> National Power System Conference at M.S. University Vadodara, October 14-16, 1998.
25. Symposium on Open Access at H.K. Polytechnic University, Hong Kong, June 1, 1999.
26. Workshop on Power System Restructuring at China Light and Power Co. Hong Kong, 1999.
27. 3<sup>rd</sup> IEEE International Conference on Power Electronics and Drive Systems, Hong Kong, July 26-29, 1999.
28. IEEE Power Engineering Society, Winter Power Meeting, 2000, Singapore, January 23-27, 2000.
29. National Conference on Biomedical Engineering, April 21-22, 2000, Roorkee India.
30. Power Quality Synergy™ Asia 2001, May 14-16, Bangkok, Thailand

31. IEEE Power Engineering Society, Summer Power Meeting, Vancouver, Canada, July 15-19, 2001.
32. Asia Regional Seminar on Market transformation: capitalizing on energy Efficient Technologies, Organized by International Institute of Energy Conservation, Thailand, 23-24 July 2001, Bangkok.
33. Siemens Open House (**invited**), Thailand, August 30, 2001,
34. 4<sup>th</sup> IEEE International Conference on Power Electronics and Drive Systems, Bali, Indonesia, October 22-25, 2001.
35. 1<sup>st</sup> Eco-Energy and Materials Science and Engineering Symposium, November 22-23, 2001, Rajamangala Institute of Technology, Thailand.
36. Power System Transient Simulation & Its Applications, 11-14 December 2001, AIT Thailand. (**Resource Person**)
37. Organization of the electric supply industry to enhance development, Feb. 8-9, 2002, AIT Thailand. (**Resource Person**)
38. National Conference on Modern aspect of FACTS and its Applications at Coimbatore, India, August 29-30, 2003. (**Keynote Speaker**)
39. 12<sup>th</sup> ISAP03, Lemnos, Greece, 31<sup>st</sup> August- 3<sup>rd</sup> September 2003.
40. ISTE sponsored short term course on ANN and Fuzzy Logic Application to Electrical Engineering at MITS Gwalior, January 19-25, 2004. (**Keynote Speaker**)
41. International Conference on Electric Utility Deregulation and Restructuring and Power Technologies, Hong Kong during 5-8 April 2004. (**Panelist**)
42. International Conference on Power System during Nov 3-5, 2004 in Kathmandu, Nepal,
43. 13<sup>th</sup> National Power System Conference, IIT Madras (Chennai), December 27-30, 2004 (**Tutorial Speaker**).
44. ISAP05, Washington, USA, November 6-10, 2005.
45. International Conference on Future Power System, Netherlands, November 16-18, 2005.
46. National Conference on Electric Power Technology, Management and IT Application, MMMEC Gorakhpur, February 17-18, 2006 (**Keynote Speaker**)
47. National Conference on Technical Challenges in Power Systems, KNIT Sultanpur, March 24-25 2006. (**Tutorial Speaker**)
48. IEEE Power India Conference Delhi, April 10-12, 2006 (**Session Chairman**)
49. International Conference on Energy, Efficiency and Environment, UPTU Lucknow, June 10-11, 2006 (**Organizing committee member, Technical Committee Chairman, Session Chairman**)
50. IEEE Power Engineering Society, General Meeting, Montreal, Canada, June 18-22, 2006. (**Panelist**)
51. National Seminar on Voltage Stability (SVC'06), Arulmigu Kalasalingam College of Engineering, Tamil Nadu, October 13-14, 2006. (**Keynote Speaker**)
52. Workshop on Laboratory Teaching in Electrical Engineering (LTEE-06), KNIT Sultanpur, India, November 24-26, 2006 (**Guest of Honor, Valedictory session**).
53. AICTE Sponsored National Conference on Advances in Electrical Engineering, MITS Gwalior, Indian, November 29-30, 2006. (**Keynote Speaker, Inaugural Session**)
54. Short-term course on Power System Control, Stability and Operation, Andhra University College of Engineering, Vishakhapatnam, October 25-27, 2007, (**Guest Lectures**)
55. 14th International Conference on Intelligent System Applications to Power Systems (ISAP07), 5 – 8 November, 2007, Kaohsiung, Taiwan (**Best Paper Award**).
56. 2<sup>nd</sup> International Conference on Power Systems (ICPS2007), CPRI Bangalore, 12-14 December 2007 (**Session Chairman**)
57. 2<sup>nd</sup> Workshop on Laboratory Teaching in Electrical Engineering (LTEE-08), KNIT Sultanpur, India, Feb 28-29, 2008 (**Key Note speaker**).
58. AICTE-ISTE course on "Recent Trends in Power System" at NERIST, Nirjuli, Itanagar, June 23-27, 2008. ((**Key Note speaker**).
59. All India Seminar on "Energy Management in Indian Perspective; Efficiency Improvement and Energy Conservation in Power & Utilities & Emerging Technologies in the Alternative Energy for Power Generation" on October 17-19, 2008 at IE(I), Lucknow (**Key Note speaker**).

60. 3<sup>rd</sup> National Frontiers in Engineering, Oct. 24-25, 2008, IIT Madras. Theme IV – Infrastructure (Participants).
61. Colloquium for Humboldt Alumni in the Engineering Sciences in India, New Delhi / INDIA, 31 October - 2 November, 2008.
62. IEEE Conference & Exhibition on Control, Communication and Automation, INDICON 2008, IIT Kanpur, 11-13 December, 2008 (**Session Chairman**)
63. 15<sup>th</sup> National Power System Conference, IIT Bombay (Mumbai), December 16-18, 2008.
64. GRIDTECH 2009 Conference and Exhibition, PGCIL, New Delhi, January 29-30, 2009 (**Invited attendee**).
65. National Seminar on Non-Conventional Energy Resources & Its Application (NCERU09), February 27-28, 2009, KNIT Sultanpur (**Keynote Speaker, Panelist**)
66. IEEE General Meeting, July24-28, Calgary, Canada (**Panelist**).
67. NWPC 2009, September 10-11, Bornholm, Denmark.
68. 15th International Conference on Intelligent System Applications to Power Systems (ISAP07), 8-12 November, 2009, Curitiba, Brazil.
69. Course on MATLAB Application to Electrical Engineering, 14-16 December 2009, KNIT Sultanpur (**Guest Speaker**).
70. International Conference on Autonomous and Intelligent Systems (AIS 2010) June 21-23, 2010, Povo de Varzim, Portugal.
71. International Conference on the European Energy Markets (EEM10), June 23-25, 2010, Madrid, Spain.
72. IEEE General Meeting, July25-29, 2010, Minneapolis, USA (**Organizing Chairman of one Panel, Panelist in two other panels**).
73. 4<sup>th</sup> IASTED Power and Energy Conference, Phuket, Thailand, Nov. 24-26, 2010 (**Session Chairman**)
74. Two-day Indo-Canadian Workshop on Urban Electric System Integration with PHEV Charging stations and solar farms, Anna University, Chennai, Jan 6-7, 2011 (**Invites Speaker**)
75. Workshop On *Data Mining---Research Issues, Recent Trends & PASW Modeler 12.0(R) Based Implementation*, IP University,, Delhi, March 4-5, 2011 (**Keynote Speaker**)
76. National Conference on *Emerging Trends in Engineering and Technology*, Shree L R Tiwari College of Engineering, Mumbai, March 11,2 2011 (**Guest of Honor**).
77. National Confererence in *Recent Advances in Electrical Power and Energy System Management*, MMMEC Gorakhpur, March 25-26, 2011 (**Keynote speaker**)
78. IEEE General Meeting, July 24-28, 2011, Detroit, USA (**Two research papers, one panel**).
79. 2<sup>nd</sup> AIT-PEA International Conference & Utility Exhibition on Power and Energy Systems: Issues and Prospects for Asia (ICUE 2011), September 28-30, Pattaya, Bangkok (**Keynote speaker**)
80. Training program on **Ancillary Services in Power System**, organized by National Load Dispatch Center, New Delhi during September 21-22, 2011.
81. All India Seminar on Power System Management at IE(I) Guwahati during October 14-15, 2011 (**Keynote Lecture**).
82. International Workshop on "Power Quality Issues and Challenges" (PQ Issues in Electrical Systems and challenges for RE sources in Grid Integration), November 18-19, 2011, CPRI Bangalore (**Key Note Speaker**).
83. Workshop on Electrical and Power Engineering during 9-13 December 2011, Jamia Milia Islamia Univ. Delhi (**Expert Lecture**).
84. STC on "Electricity Market and design", MNIT Jaipur, December 19-23, 2011 (**Expert Lecture**).
85. STC on Renewable Energy & Energy Security: Trends and challenges (under TEQIP), 16-20 Jan 2012, MANIT Bhopal (**Expert Lecture**).
86. National Conference on "Emerging Trends in Electrical, Instrumentation & Communication Engineering (ETEIC-2012)" 6<sup>th</sup> & 7<sup>th</sup> April 2012, Anand College of Engineering, Agra (**Key Note Speaker**).

87. Workshop on Ancillary Services in Indian System, organized by POSOCO, New Delhi during June 15, 2012 (**Expert Lecture**).
88. DST-NWO Workshop on Smart Energy Systems held during September 24-28, 2012 at TU Delft, Netherlands (**Invited Speaker**).
89. 2012 International Conference on Renewable Energy and Policy held during 11-15 November 2012 at National Taiwan University in Taipei (**Invited Guest**)
90. 17th National Power Systems Conference (NPSC-2012) held during December 12-14, 2012 at Department of Electrical Engineering, IIT (BHU) Varanasi (**Session Chairman**).
91. 2<sup>nd</sup> International Conference on Power, Control and Embedded Systems (ICPCES-2012) held during December 17-19, 2012 at Motilal Nehru National Institute of Technology, Allahabad (**Key Note speaker, Session Chairman**)
92. 5th IEEE Power India 2012 Conference held during 18-22 December at DCRUST, Murthal, Sonapat, (**Tutorial speaker**).
93. India-UK Workshop on Smart Grid, DTU Delhi, 18<sup>th</sup> Feb 2013 (**Resource Person**).
94. IEEE R-10 meeting, Chiang Mai, Bangkok during March 2-3, 2013. (**IEEE UP Section chairman**)
95. National seminar on "*Future of Electric Power Sector: Issues and Challenges*, 'FEPSIC2013' Galgotias College of Engineering and Technology, Greater Noida, 16 March 2013 (**Key note speaker**)
96. Seminar on Emerging Trends on Engineering and Technology, Vishwasaraiya Group of Institutions, Dadri, March 16-17, 2013 (**Guest of Honor, Inaugural function & Chief Guest, valedictory function**)
97. International Scientific Seminar India-UK on Exploring Beyond the Frontiers to Build A smarter Grid, Coventry University, 19-20 March 2013 (**Speaker**)
98. Workshop on Advanced Power Systems Operation Protection and Control, RVCE Bangalore, March 25-28, 2013 (**Chief Guest of Inaugural function and Key note speaker**)
99. Workshop on Industry-Academia Relation, IEEE PES Bangalore Chapter (REVA college), 26<sup>th</sup> March 13 (**Panelist**)
100. GRIDTECH 2013 Conference and Exhibition, PGCIL, New Delhi, April 3-5, 2013 (**Invited attendee**).
101. National Conference on Trends in Signal Processing & Communication, BIT Muzaffarnagar, 12-14, 2013 (**Chief Guest and Key note speaker**).
102. 2<sup>nd</sup> Students' Conference on Engineering and Systems (SCES 2013), MNNIT Allahabad, April 12-14, 2013 (**Expert Lecture**).
103. National Conference on Microwaves Antennas and Remote Sensing (MARS), GEHU, Dehradun, June 7-8, 2013 (**Guest of Honor**).
104. 17th International Conference on Intelligent System Applications to Power Systems (ISAP13), 1-4 July 2013, Tokyo Japan (**Session Chairman**).
105. 1<sup>st</sup> Annual International conference on Power, Energy and Electrical Engineering (PEEE), Singapore during August 26-27, 2013 (**Keynote Speaker, Editor-in-Chief**).
106. Workshop on Distributed Generation and Power System Restructuring, August 30-31, 2013, Udaipur (**Chief Guest, Keynote speaker**)
107. National Seminar on "Advances in Power Systems (NSAPS-2013), September 07, 2013, KNIT Sultanpur, (**Guest of Honor, Keynote speaker**)
108. Seminar on Renewable Energy Based Power Generation: Options and Challenges, September 14, 2013, MITS Gwalior (**Chief Guest, Keynote speaker**)
109. Seminar on Distributed Generation: The Power Paradigm for New Millennium, September 28-29, 2013, UEM, Kolaghat, (**Guest of Honor, Keynote speaker**)
110. International Conference on Computer Applications in Electrical Engineering-Recent Advances (CERA13) October 3-5, 2013, IIT Roorkee (**Plenary Speaker and Session Chairman**)
111. 5<sup>th</sup> International Conference on Power and Energy Systems (ICPS), October 28-30, 2013, Kathmandu, Nepal (**Session chairman**).
112. Indicon13, IIT Bombay, December 13-16, 2013 (**Special Invitee**)



113. 2013 International Conference on Control, Automation, Robotics and Embedded Systems (CARE 13), IITDM Jabalpur, December 15-17, 2013 (**Keynote Speaker and Session Chairman**)
114. National Conference on Electric Power, and Intelligent Control Systems (EPICS), Galgotias College of Engineering and Technology, Greater Noida during March 28-29, 2014 (**Chief Guest, Keynote speaker**)
115. National Conference on Computer Intelligence and Robotics (NICCIR-14) ABES Engineering College, April 4-5, 2014 (**Key Note Speaker**)
116. Seminar on Power Quality, ABESIT Noida during May 3-5, 2014 (**Guest of honor, Keynote speaker**)
117. Three-day Residential Training Program on “Power Procurement Strategy & Power Exchanges” July 28-30, 2014 at IIT Kanpur (**Resource Person**)
118. Workshop on Power System Operation and Electricity Market in India, POSCOCO, New Delhi on August 01, 2014 (**Keynote Speaker**)
119. Workshop on MATLAB for Engineers, BSACET, Mathura, 29-30 September 2014 (**Chief Guest and Key Note Speaker**).
120. 3<sup>rd</sup> International Conference on Reliability, Infocom Technology and Optimization (ICRITO’2014) during Oct 8-10, 2014 at Amity University, Noida, India (**Chief Guest**)
121. National Conference on Electrical, Electronics, and Computer Engineering, IEEE CALCON2014, 7-8 November 2014, Kolkata (**Key Note Speaker**).
122. 6<sup>th</sup> IEEE Power India International Conference (PIICON-2014), during 5-7 December 2014, Delhi Technological University (DTU), New Delhi, India (**Session Chair**).
123. 3<sup>rd</sup> International Conference on Power, Control and Embedded Systems (ICPCES-2014) held during December 26-28, 2014 at Motilal Nehru National Institute of Technology, Allahabad (**Key Note speaker**)
124. IEEE R10 Technical Seminar on 25<sup>th</sup> January, Kathmandu Nepal (**Organizing Coordinator**).
125. Workshop on “Advances in Optimization Techniques and Their Applications in Power Systems (WAOTAPS-2015), February 20-21, 2015, KNIT Sultanpur, (**Keynote Speaker**)
126. International Conference of Science and Technology-2015, Feb. 27-28, 2015 at SRMS College of Engineering & Technology, Bareilly (**Keynote speaker**)
127. Technical Seminar in American International University-Dhaka, Bangladesh, 9th March, 2015, (**Keynote Speaker**)
128. International Conference on Advances in Computer Engineering & Applications-2015, IMS Engineering Ghaziabad, March 19-20, 2015 (**Guest of Honor**)
129. First UP Section Conference – International Conference on Energy Economics and Environment ICEEE2015), During March 26-28, 2015 at Galgotias College of Engineering & Technology Greater Noida, (**General Chair, Tutorial Speaker**)
130. 2<sup>nd</sup> National Conference on Recent Advances in Communication, Electronics and Electrical Engineering (RACE-2015) from 27<sup>th</sup>-28<sup>th</sup> March, 2015 at I.T.S Engineering College, Greater Noida (**Invited Speaker**)
131. GRIDTECH 2015, 5<sup>th</sup> Conference and Exhibition, PGCIL, New Delhi, April 8-10, 2015 (**Session Chair**)
132. 2<sup>nd</sup> National Conference on Advances in Power and Energy Systems, April 10-11, 2015, KNIT Sultanpur (**Keynote Speaker**).
133. Workshop on Transmission Systems, May 18-20, 2015, PMTI BHEL Noida (**Keynote Speaker**).
134. National Workshop on Computation Intelligence Application to Smart grid, May 28-30, 2015, IIT Mandi (**Keynote Speaker**).
135. TEQIP-II sponsored Faculty Development Programme on Recent Advances and Challenges in Power & Energy for Sustainable Growth, June 1 –5, 2015 at Electrical Engineering Department of DTU Delhi (**Guest of Honor and Invited Speaker**)
136. IEEE R10 Student, Young Professional & Women in Engineering Congress (SYWC 2015), July 9-12, 2015 Colombo Sri Lanka (**Invited Speaker**)
137. IEEE Panel of Conference Organizers (IEEE POCO), July 16-18, 2015, Glasgow, UK (**Invited Attendee from R10**).

138. International Conference on Smart Grid Technologies 2015 (ICSTG 2015), August 6-8, 2015, Amritanagar, Coimbatore (**Tutorial Speaker & Guest of Honor**).
139. International Solar Energy seminar 2015, August 21-22, 2015, Galgotias College of Engineering & Technology, Greater Noida, UP (**General Chair**)
140. 4th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO) (Trends and Future Directions), September 2-4, 2015, Amity University, Noida (**Keynote Speaker**)
141. 1st International Conference on Next Generation Computing Technologies (NGCT-2015) (Current and Future Trends), University of Petroleum and Energy Studies, Dehradun, September 4-5, 2015 (**Keynote Speaker**).
142. IEEE R10 TENCON 2015, Nov 1-4, 2015, Macau (**Guest speaker**)
143. National workshop on Power Electronics (NWPE2015), Electrical Engg. Dept. Delhi Technological University, New Delhi, November 6-7, 2015 (**Keynote Speaker**).
144. National Workshop on Advance Application of RTDS in Power Engineering Research & Controller Validation, IIT Kanpur, November 20-21, 2015 (**Panelist**)
145. First International Conference on Computing, Communication and Security (ICCCS- 2015), Mauritius, Dec 4-5, 2015 (**General Chair and Keynote Speaker**).
146. 2nd UP Section Conference – International Conference on *Electrical, Computer & Electronics*, December 4-6, 2015 at IIIT Allahabad, India (2nd UP CON 2015) (**General Chair and Mini-POCO speaker**).
147. 9th IFAC Symposium on Control of Power and Energy Systems (CPES) 2015, IIT Delhi, December 9-11, 2015 (**Session Chair**).
148. Second International Conference “Control, Instrumentation, Energy and Communication-CIEC 16” during January 28-30, 2016, at Kolkata Univ., India (**Keynote Speaker**)
149. 3<sup>rd</sup> International Conference on Signal Processing and Integrated Networks (SPIN) 2016, Feb 11-12, 2016, Amity Univ, Noida. (**Guest of Honor**)
150. 2nd IEEE International Conference on Computational Intelligence & Communication technology CICT-2015,12-13th, Feb, 2016 ABES Ghaziabad, (**Keynote speaker**)
151. International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy Systems (ICETEESES-16)”, KNIT Sultanpur, on March 11-12, 2016 (**Global Citizen Award**)
152. 2<sup>nd</sup> International Conference on Advances in Computing and Communication Engineering, April 7-9, 2016 at Tula’s Institute Dehradun, (**Keynote speaker**)
153. National Conference On “Recent Development in Electrical, Electronics and Communication Engineering” “RDEECE-2016”, BSA Mathura (April 9-10, 2016), (**Keynote speaker**)
154. IEEE R10 mini-POCO (Panel of Conference Organizer), UPES Dehradun June 11, 2016 (**Keynote speaker**)
155. International Workshop on Next Generation Active Distribution Networks to Empower Future Low Carbon Indian Society, at IIT Mandi, August 12-14, 2016 (**Resource Person**)
156. International Workshop on Smart Micro-Grids for Autonomous Zero-Net-Energy Communities”, 8-9 September 2016, Birmingham, UK (**Resource Person**)
157. 2<sup>nd</sup> International Conference on Advances in Computing, Communication & Automation (ICACCA 2016), MJP Rohilkhand University Bareilly,30 September & 01 October 2016 (**Keynote speaker**).
158. International Conference on Recent Trends in Electrical and Electronics & Communication Engineering, BIET Jhansi, Oct 15-16, 2016 (**Key Note Speaker**).
159. 2nd International Conference on Control, Computing, communication and Materials (ICCCCM-2016), United College of Engineering & Research, Allahabad, Oct 21-22, 2016 (**General Chair and Keynote Speaker**).
160. International Conference on Emerging Trends in Communication Technology (ICETCT-2016) Graphic Era University Dehradun, Uttarakhand, INDIA, Nov 18-19, 2017(**General Chair and Keynote Speaker**).
161. IEEE TENCON 2016, Singapore Nov 22-25, 2016 ( **IEEE R10 Observer**)

162. IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, December 9-11, 2016 at IIT BHU, India (3rd UP CON 2016) (**General Chair**).
163. International Conference on Electrical Power and Energy Systems (ICEPES–2016), MANIT Bhopal, Dec 14-16, 2016 (**Guest of Honor and Key Note Speaker**).
164. International Conference on Advances in Engineering Research and Applications [ICAERA-2016], Oriental College of Technology Bhopal, December 15th -16th, 2016 (**Guest of Honor and Key Note Speaker**)
165. INDICON 2016, IISc Bangalore, Dec 16-18, 2016 (**Invited Guest**)
166. 19<sup>th</sup> National Power System Conference, IIT Bhubaneswar, December 19-21, 2016 (**Session Chair**)
167. IEEE R10 HTC 2016, DEI Agra, December 21-23, 2016 (**Session Chair, Keynote speaker and IEEE R10 Observer**).
168. 8th International Conference on “Cloud Computing, Data Science & Engineering” Amity University, January 12-13, 2017 (**Guest of Honor**)
169. Third-International Conference on Computational Intelligence and Communication Technology (CICT), ABES EC Ghaziabad, Feb 9-10, 2017 ( **IEEE UP Section Observer**)
170. International Conference on Electrical, Computer and Communication Engineering (ECCE), Cox’s Bazar, Bangladesh, Feb 16-18, 2017 (**Keynote speaker**)
171. 4th International Conference on Power, Control and Embedded Systems (ICPCES-2016), March 9-11, 2017, MNNIT Allahabad (**Keynote Speaker**).
172. 2nd International Conference for Convergence in technology (IC2T), Pune, April, 7-9, 2017 (**Keynote Speaker**).

Dr SN Singh

28-May-17