

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

**Director, Atal Bihari Vajpayee- Indian Institute of Information Technology
Management, Gwalior-India**
(On leave from Professor (HAG), Department of Electrical Engineering, Indian
Technology, Kanpur (UP) – 208016)
Tel: +91-751-2449801, Email: snsingh@iitk.ac.in, director@iiitm.ac.in



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>Position</i>	<i>Organization</i>	<i>Duration</i>
Director	Atal Bihari Vajpayee-Indian Institute of Information Technology & Management Gwalior, India	April 08, 2022 to date (on leave from IIT Kanpur)
Professor (Higher Academic Grade)	Indian Institute of Technology, Kanpur, India	Aug. 1, 2014 to date
Vice-Chancellor	MMM University of Technology Gorakhpur	April 28, 2017 to July 27, 2020 (with leave from IIT K)
Professor	IIT, Kanpur, India	Feb 8, 2008 – July 31-2014
Visiting Professor	Denmark Technical University, Lyngby, Denmark	July 2, 2009 - June 30, 2010 (on leave from IIT Kanpur)
Humboldt Research Fellow	University of Duisburg-Essen, Germany	June,05-Dec,05 + Dec 06- June 07 (on leave from IITK)
Associate Professor	Indian Institute of Technology (IIT), Kanpur	April 5, 2002 – Feb. 7, 2008
Assistant Professor	AIT, Thailand	Jan. 2, 2001 - April 4, 2002
Post-Doctoral Fellow	Asian Institute of Technology (AIT), Thailand	May 1997 – Aug. 1997 (On leave from UoR)
Research Fellow	H.K. Polytechnic University, Hong Kong	Dec 18, 1998- March 31, 2000 (On leave from UoR)
Assistant Professor	University of Roorkee (IITR), India	June 14,1996 - Jan. 1, 2001
Assistant Engineer, Operation	U.P. State Electricity Board, Lucknow (UP), India	July 1995 – June 13 1996
Assistant Engineer, Planning	U.P. State Electricity Board, Lucknow (UP), India	Aug. 8, 1988-July 1995

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.

Patent: *Catalyst for Oxygen Reduction Reaction for Fuel Cells and Method of Manufacturing Same (Indian Application No. 202111013177)*

Publications (See Annexure - B)

Refereed Journals	: 241
Conferences/ Seminars etc	: 278
Discussions/Short papers	: 12
Invited Papers/Lectures	: 12
Technical Reports	: 26

Citation (April 26, 2023)

Citation indices	All	Since 2018
Citations	13926	5989
h-index	59	37
i10-index	236	135

Thesis Supervisions

Ph. D.	: 48 (41 completed, 1 submitted and 6 in progress)
M. E./ M. Eng.	: 42

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*, Asia-Pacific Artificial Intelligence Association (FAAIA)
- * *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)
- * *Life Member* of Central Board of Irrigation & Power- (LM-CBIP)
- * *Fellow*, Alexander von Humboldt (AvH), Germany

Books, Book Chapters & Monograph

Text Books:

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

Edited Books:

1. *Advances in Energy and Power Systems*, Springer Notes in Electrical Engineering, Springer Nature Singapore Pte Ltd, 2018 (ISBN 978-981-13-0662-4)
2. *Advances in System Optimization and Control*, Springer Notes in Electrical Engineering, Springer Nature Singapore Pte Ltd, 2018 (ISBN 978-981-13-0665-5)
3. *ICRRM 2019-System reliability, Quality Control, Safety, Maintenance and Management*, Springer Nature Singapore Pte Ltd, 2020 (ISBN 978-981-13-8506-3)
4. *Advances in Power and Control Engineering*, Springer Notes in Electrical Engineering, Springer Nature Singapore Pte Ltd, 2019 (ISBN 978-981-15-0313-9)
5. *Microgrids for Rural Areas: Research and case studies*, 2020, IET Energy Engineering 160, UK (ISBN 978-1-78561-998-4 (Hardback), ISBN 978-1-78561-999-1 (PDF))
6. *Fundamentals and Innovations in Solar Energy*, Springer Nature Singapore Pte Ltd 2021 (ISBN 978-981-336-455-4 (Hardback)), DOI: 10.1007/978-981-33-6456-1.
7. *Renewable Energy Towards Smart Grid*, 2022, Springer Nature Singapore Pte Ltd, ISBN 978-981-16-7472-3 (eBook), 978-981-16-7471-6 (hardcover),
8. *Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid: Modeling, Control and Optimization*, 2022, Springer Verlag Singapore Pte Ltd, ISBN 978-981-19-0978-8.
9. *Recent Advances in Power System*, Springer Nature Singapore Pte Ltd 2021, ISBN: 978-981-16-6969-9.
10. *Proceedings of the NIELIT's International Conference on Communication, Electronics and Digital Technology.(NICE-DT) 2023*, Springer Singapore Lecture Notes in Networks and Systems (LNNS, volume 676), ISBN: 978-981-99-1698-6, eBook ISBN978-981-99-1699-3
11. *Optimal Planning and Operation of Distributed Energy Resources*, Springer Nature Singapore Pte Ltd 2023.

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, 2010, 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. Muyeen, 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 (2017). Editors: Ajit Kumar Verma, Rajesh Karki, Jaeseok Choi,
6. P Pavani and **SN Singh**, *Economic Aspect of DG*, in the book entitled **Handbook of Distributed Generation**, Springer Verlag (2016). Editors: RC Bansal, pp. 731-748.
7. 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 pp. 409-458.
8. 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.
9. Naran Pindoriya, Markus Duchon, Pragya Kirti Gupta, Venkatesh Pampana, **S N Singh**, Jakob Giza, Bastian Hackenberg, Arvind Kumar Rajput, and Janki Jethi, *Intelligent Hardware-Software Platform for Efficient Coupling of Water-Energy Nexus in Smart Cities: A Conceptual Framework* in the book entitled **Mobility Internet of Things 2018**, Springer Nature Switzerland, 2020 Editors: Cagaňová, Dagmar, Horňáková, Natália, ISBN 978-3-030-30911-4, pp.217-231
10. Aasim, **SN Singh**, Abheejeet Mohapatra, *Active Power Regulation by MPC based Flywheel Energy storage system*, in the book entitled **Advances in Energy and Power Systems**, Springer Notes in Electrical Engineering, Springer Nature Singapore Pte Ltd, 2018 (ISBN 978-981-13-0662-4), pp. 57-72.
11. Pengcheng Cui, Bing Xu, Fushuan Wen, Zihao Fu, Bingquan Zhu, Qiulong Ni and **S. N. Singh**, *Post-evaluation Index System and Comprehensive Evaluation Method for Daily Power System Dispatching* in the book entitled **Advances in Energy and Power Systems**, Springer Notes in Electrical Engineering, Springer Nature Singapore Pte Ltd, 2018 (ISBN 978-981-13-0662-4), pp.73-86.
12. R. K. Chauhan, F. M. Gonzalez-Longatt, Bharat Singh and **SN Singh**, *DC microgrid in residential buildings*, in the book entitled **DC Distribution Systems and Microgrids**, The Institution of Engineering & Technology (IET). Editors: Tomislav Dragicevic, Pat Wheeler and Fred Baabjerg, October 2018.
13. Shiv Kumar Singh, Harsh Vikram Singh, Saikat Chakrabarti and **SN Singh**, *Analysis of energy consumption and implementation of R-statistical programming for load forecasting in*

- presence of solar generation, in the book entitled **Intelligent Computing Techniques for Smart Energy Systems**, Springer Notes in Electrical Engineering Springer Nature Singapore Pte Ltd, 2020, Editors: Akhtar Kalam, Khaleequr Rehman Niazi, Amit Soni, Shahbaz Ahmed Siddiqui, Ankit Mundra (978-981-15-0213-2), pp.227-238.
14. Francisco Gonzalez-Longatt, Francisco Sanche, **SN Singh**, *On the topology for a smart direct current microgrid for a cluster of zero-net energy buildings* in the book entitles, **Distributed Energy Resources in Microgrids: Integration, Challenges and Optimization**, Elsevier Academic Press; Editors: RK Chauhan and Kalpana Chauhan; ISBN: 978-0-12-817774-7 (2019), pp. 455-481.
 15. Rajeev Kumar Chauhan, Kalpana Chauhan, **Sri Niwas Singh**, *Overview of microgrids for rural areas and low-voltage applications* in the book entitled **Microgrids for Rural Areas: Research and Case Studies**, 2020, IET Energy Engineering 160, UK. ISBN 978-1-78561-998-4 (Hardback), ISBN 978-1-78561-999-1 (PDF)
 16. Rajeev Kumar Chauhan, Kalpana Chauhan, **Sri Niwas Singh**, *Conclusions and Future Scope* in the book entitled **Microgrids for Rural Areas: Research and Case Studies**, 2020, IET Energy Engineering 160, UK. ISBN 978-1-78561-998-4 (Hardback), ISBN 978-1-78561-999-1 (PDF)
 17. Mahesh Kumar and **SN Singh**, *Control Technique for Integration of Smart DC Microgrid to the Utility Grid*, in the book entitled **Microgrids for Rural Areas: Research and Case Studies**, 2020, IET Energy Engineering 160, UK. Editor, Kalpana Chauhan, Rajeev Chauhan and SN Singh, ISBN 978-1-78561-998-4 (Hardback), ISBN 978-1-78561-999-1 (PDF)
 18. **SN Singh**, *Power Systems and Power Plant Control (Section 4:Control of FACTS Devices)*, in the Book entitled **Applications of Modern Heuristic Optimization Methods in Power and Energy Systems**, John Wiley & Sons (IEEE Press Series on Power Engineering) 2020, Editor: Kwang Y Lee and Zita Vale.
 19. Chandra Sekar, Asheesh K Singh, **Sri Niwas Singh**, Vassilios G Agelidis, *Front-End Power Converter Topologies for Plug-in Electric Vehicles*, in the Book entitled **Emerging Power Converters for Renewable Energy and Electric Vehicles Modeling, Design, and Control**, CRS press 2021, Editors: Md Rabiul Islam, Md Rakibuzzaman Shah, Mohd. Hasan Ali. ISBN 9780367528034.
 20. **SN Singh**, Prabhakar Tiwari and Sumut Tiwari, *Introduction to Solar Energy*, in the Book entitled **Fundamentals and Innovations in Solar Energy**, Springer Nature Singapore Pte Ltd 2021; Editors: SN Singh, Prabhakar Tiwari and Sumit Tiwari. ISBN: 978-981-336-455-4, pp.1-9.
 21. Umesh Agarwal, Naveen Jain, **SN Singh**, Manoj Kumawat, *Solar PV Generation*, in the Book entitled **Fundamentals and Innovations in Solar Energy**, Springer Nature Singapore Pte Ltd 2021; Editors: SN Singh, Prabhakar Tiwari and Sumit Tiwari. ISBN: 978-981-336-455-4, pp.11-33.
 22. SK Jain and **SN Singh**, *Smart Energy System*, in the Book entitled **Fundamentals and Innovations in Solar Energy**, Springer Nature Singapore Pte Ltd 2021; Editors: SN Singh, Prabhakar Tiwari and Sumit Tiwari. ISBN: 978-981-336-455-4, pp. 93-116.
 23. Naran M. Pindoriya, **SN Singh**, *Solar Energy Forecasting*, in the Book entitled **Fundamentals and Innovations in Solar Energy**, Springer Nature Singapore Pte Ltd 2021;

- Editors: SN Singh, Prabhakar Tiwari and Sumit Tiwari. ISBN: 978-981-336-455-4, pp.127-140.
24. Vipin Das P, Navneet K Singh, Rakesh Maurya, Asheesh K Singh, and Sri Niwas Singh (2021), *Advances in Hybrid Solar System*, in the book titled "**Fundamentals and Innovations in Solar Energy**," Springer Nature Singapore Pte Ltd 2021; Editors: SN Singh, Prabhakar Tiwari and Sumit Tiwari., ISBN: 978-981-336-455-4, pp.231-283.
 25. Saurabh Gosh, Rakesh Maurya, Sri Niwas Singh, Vassilios G Agelidis and Asheesh K Singh (2021), *Charging Stations and Standards*, in the book titled "**Cable Based and Wireless Charging Systems for Electric Vehicles: Technology, Control, Management & Grid Integration**", IET (UK).
 26. A Pratap, Prabhakar Tiwari, B Singh, Sumit Tiwari and SN Singh (2021), *Energy storage systems: A comprehensive review*, in book titles "**Energy Conversion Systems: An Overview**"; Nova Science Publishers, Editors: Saurabh Mani Tripathi and Sanjeevikumar Padmanaban, ISBN: 978-1-53619-131-8, pp. 275-301.
 27. Ramendra Kumar Rai, Aashish Kumar Bohre, Pradyumn Chaturvedi, M.L. Kolhe, S.N. Singh, *Planning and Impact of Electric Vehicle Charging Stations in Distribution System using Optimization Technique*, in book titles **Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid: Modeling, Control and Optimization**, Springer Nature Singapore Pte Ltd 2022, ISBN: 978-981-19-0978-8, pp. 177-191.
 28. Arnab Ari, Aashish Kumar Bohre, Pradyumn Chaturvedi, M.L. Kolhe, S.N. Singh, *Techno-socio-economic analysis of hybrid renewable energy systems: A Review with case study*, in book titles **Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid: Modeling, Control and Optimization**, Springer Nature Singapore Pte Ltd 2022, ISBN: 978-981-19-0978-8, pp. 227-264.
 29. Aashish Kumar Bohre, Pradyumn Chaturvedi, M.L. Kolhe, S.N. Singh, *Introduction*, in book title **Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid: Modeling, Control and Optimization**, Springer Nature Singapore Pte Ltd 2022, ISBN: 978-981-19-0978-8, pp. 1-7.
 30. Tapan Prakash, Praveen Prakash Singh, Vinay Pratap Singh³ and Sri Niwas Singh, *A Novel Brown-bear Optimization Algorithm for Solving Economic Dispatch Problem*, in book titles **Advanced Control & Optimization Paradigms for Energy System Operation and Management** - River Publishers, Denmark, 2023, E-ISBN 978-100-33-3700-3, pp 28.
 31. Umesh Agarwal, Naveen Jain, Manoj Kumawat, Sri Niwas Singh, *An Assessment Procedure for Distribution Network Reliability Considering Load Growth*, in book entitled **Recent Advances in Power Systems**, Springer Nature Singapore Pte Ltd 2022, e-ISBN: 978-981-16-6970-5 pp 51-63.
 32. Ajay Pratap Singh, Sumit Tiwari, Harender Sinhmar, Prabhakar Tiwari and S.N. Singh, *Performance Analysis of Solar Energy Conversion Technology*, in book entitled "**Energy Conversion: Methods, Technology and Future Directions**", Nova Science Publisher, USA, 2023, ISBN: 979-8-88697-424-9 (e-book), pp. 45-72.
 33. Avinash Kumar, et al, *Distribution system monitoring in presence of Renewable Energy Sources* in Book entitled: **Power System Operation with 100% Renewable Energy Sources**, Springer Nature Singapore Pte Ltd 2023.

Monograms:

- * *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 & Control: Modern Trends and Future Challenges*, QIP, 2006.
- * *Electric Power Quality: Monitoring, Analysis and Mitigation*, IITK 2008.
- * *Distribution Equipments: Technology and Applications*, PFC New Delhi 2012.

NPTEL Courses (Video):

1. Power System Operation and Control
2. HVDC Transmission

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. 21st 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 14th International Conference on Intelligent System Application to Power Systems (ISAP07) held during Nov 4-8, 2007, Kaohsiung, Taiwan.
17. **Otto Mønstedts Fund Award**, Denmark (2009)
18. Best paper Award for *AWNN based Harmonic Estimation in Renewable Energy Sources*, in **Recent Advances in Electrical Power and Energy System Management (RAEPESM-2011)**.
19. Best paper Award for *Characterization of Power Quality events with wavelet transform*, in **Recent Advances in Electrical Power & Energy System Management (RAEPESM-2011)**.
20. **2010 Clayton Griffin Student Paper Award** for SVM based Scheme to Prevent Distance Relay Mal-operation under Power Swing and Voltage Instability"
21. Three PhD Theses got **POSOCO Power System Award, 2012**
22. 2013 IEEE Educational Activities Board **Meritorious Achievement Award** in Continuing Education
23. **Dr PS Nigam Power Sector Award 2013 and 2014** by IE(I), UP State Center
24. The Institution of Engineers (I), **Certificate of Appreciation, 2013**.
25. Two PhD Theses and One M.Tech. thesis got **POSOCO Power System Award, 2013**
26. 2013 IEEE R10 **Educational Activities Board Award, 2013**
27. 2014 IEEE **PES Chapter Outstanding Engineer Award**.
28. **Er Hari Mohan Memorial Award 2014** by IE(I), UP State Center
29. **Emerald Literati Network 2015 Awards for Excellence** by Emerald Publication UK.
30. **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.
31. Two PhD Theses got **POSOCO Power System Award, 2015**

32. **Gobal Citizen Award 2016** by KNIT Sultanpur.
33. **Ranked 4rth in top** researchers in Energy area by DST New Delhi based on the number of publications during 2002- 2014.
34. **INAE Outstanding Teacher Award 2016**
35. **IEEE Region 10 (Asia-Pacific) Outstanding Volunteer Award 2016**
36. **IEEE India Council, M V Chauhan All India Student Paper Award 2016** (First prize) for Risk Based Optimal Genco's Self-Scheduling'.
37. **IEEE UPCON Best Paper Award 2017** for *Modular Multi-level Converter Topologies: Present Status and Key Challenges*.
38. **Outstanding Research Faculty Award** for year 2017-18 for Top 10 knowledge producers in *Energy Discipline* by CAREER360, New Delhi.
39. **Life Time Achievement Award 2018** by Global Intellect Award -2018 (JSR Laboratory & Asian Society for Scientific Research), Pune for *Outstanding Contributions to the power engineering community in Teaching, Training, Research and Industrial Collaboration*.
40. **Prof GK Dubey Memorial Life Time Achievement Award 2018** by IEEE Uttar Pradesh Section for Outstanding contribution to IEEE UP Section and IEEE R10.
41. **Amity Global Academic Excellence Award 2018**, by Amity University, Greater Noida, India.
42. **Sangam Shikhar Samman 2018**, Gorakhpur
43. **IEEE UPCON Best Paper Award 2018** for *Development of EMT Model for Circulating Current Control*.
44. Amity Excellence Award **for Outstanding Leadership, Innovation and Contribution in Higher Education, Given by Minister of State (independent Charge) Sri Mahesh Sharma Jee** at Amity University, Noida, India on December 19, 2018.
45. IEEE Industry Application Society **Distinguish Lecturer** 2019-2021
46. IEEE Power and Energy Society **Distinguish Lecturer** 2019 – to date
47. NPSC 2020 **Academic Excellence Award, 2020**
48. IEEE Industry **Application Society Outstanding Educator/Mentor Award 2021**
49. IEEE Member and Geographic Activities (MGA) **Achievement Award 2021**
50. **Lifetime Achievement Award 2022"** by IEEE GlobConPT 2022.

Conference/Seminar/Course/Workshop Organized

A. Workshops

- 1) **Coordinator** 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).
- 2) **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).
- 3) **Coordinator** of Short-term workshop *Electric Power Distribution: Reforms, Automation and Management* at IIT Kanpur, May 10-14, 2004 (Co-coordinator: Prof SC Srivastava).
- 4) **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).
- 5) **Coordinator** of Short-term Training course On *Recent Practices in Electric Power Distribution* at IIT Kanpur, November 27-29, 2007.
- 6) **Coordinator** of DST SERC School on *Power Quality: Monitoring, Analysis and Mitigation* at IIT Kanpur, April 7-11, 2008 (Co-coordinator: Prof SC Srivastava).
- 7) **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.
- 8) **Coordinator** of Quality Improvement Program Course on *Intelligent System Applications to the Smart Electric Grid Solutions* at IIT Kanpur, November 15-19, 2010.
- 9) **Coordinator** of Quality Improvement Program Course on *Operation and Management of Emerging Power Systems* at IIT Kanpur, November 21-25, 2011.
- 10) **Coordinator** of Training of Trainers of Partner Institutes on *Distribution Equipments: Technology and Applications* at IIT Kanpur, June 28, 2012.
- 11) **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).
- 12) **Coordinator**, of Quality Improvement Program Course on *Power System Economics* at IIT Kanpur, July 26-30, 2013 (Co-coordinator: Dr Vimal Kumar).
- 13) **Coordinator**, of Course on *Power Market & Economics* at IIT Kanpur, May 15-18, 2014 (Co-coordinator: Dr Vimal Kumar).
- 14) **Main Resource Person** of course on Power generation at Ambhabusi, Johannesburg, South Africa, June 9-13, 2014.
- 15) **Coordinator**, of Course on *Power Market & Economics* for POSOCO New Delhi at NPTI Faridabad, September 16-20, 2014 (Co-coordinator: Dr Vimal Kumar).
- 16) **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).
- 17) **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).
- 18) **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).
- 19) **Coordinator**, of Course on *Ancillary Services and Electricity Markets* for POSOCO New Delhi at IIT Kanpur, September 7-10, 2015.

- 20) **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).
- 21) **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.
- 22) **Coordinator**, Course on Advanced and Modern Electronic and Machine Drive for Training of Electrical Supervisors, Electric training Center, Kanpur during April 25-30, 2017.
- 23) **Coordinator** of Workshop on National Workshop on A Multi Dimensional Smart Energy Grids Analysis for Indian Scenario, at IIT Mandi, May 8-10, 2017 (Co-coordinator: Dr Bharat Singh Rajpurohit).
- 24) **Coordinator**, Course on Advanced and Modern Electronic and Machine Drive for Training of Electrical Supervisors, Electric training Center, Kanpur during August 7-11, 2017.
- 25) **Coordinator**, Course on Power System Economics for POSOCO New Delhi at IIT Kanpur Campus, Noida, December 13-17, 2017. (*Co-coordinator: Dr Vimal Kumar*).
- 26) **Patron**, Power Quality Analysis and Energy Management in Smart Sustainable Cities, 28 June 2021

B. Seminars/Conferences

1. **Organizing Secretary** of All India Seminar on *Electric Energy System Management - Indian Scenario* at IE (I) Roorkee Local Center, 4-5 September 1998.
2. **General Chair**, IEEE International Conference on Energy, Economics & Environment, March 26-28, 2015 at GCET, Greater Noida India (Ist UP CON).
3. **General Chair**, IEEE International Conference on Advances in Computing and Communication Engineering, May1-2, 2015 at Tula's Institute Dehradun.
4. **General Chair** of *International Solar Energy Seminar 2015*, August 21-22, 2015, Galgotias College of Engineering & Technology, Greater Noida, UP
5. **General Chair**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, December 4-6, 2015 at IIIT Allahabad, India (2nd UP CON 2015).
6. **General Chair**, 'First International Conference on *Computing, Communication and Security* (ICCCS- 2015), Mauritius on Dec 4-5, 2015.
7. **General Chair**, 2nd International Conference on Advances in Computing and Communication Engineering, April 7-9, 2016 at Tula's Institute Dehradun.
8. **General Chair**, 2nd International Conference on Advances in Computing, Communication & Automation (ICACCA 2016), MJP Rohilkhand University Bareilly, Sept 30-Oct 1, 2016.
9. **General Chair**, 2nd International Conference on Control, Computing, communication and Materials (ICCCCM-2016), United College of Engineering & Research, Allahabad, Oct 21-22, 2016.
10. **General Chair**, International Conference on Emerging Trends in Communication Technologies, November 18-19, 2016, Graphic Era Univ., Dehradun.
11. **General Chair**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, December 9-11, 2016 at IIT BHU, India (3rd UP CON 2016).
12. **General Chair**, 2nd International Conference on Advances in Computing, Communication and Automation, September 15-16, 2017 at Tula's Institute Dehradun.
13. **General Chair**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, October 26-28 at GLA University, India (4th UP CON 2017).
14. **General Chair**, 14th IEEE India Council International Conference (INDICON), December 15-17, 2017 at IIT Roorkee, India

15. **General Chair**, 3rd International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU 2018) 24-25 February, 2018 at Birla Institute of Applied Sciences, Bhimtal, Nainital, Uttarakhand, India.
16. **General Chair**, 2018 IEEE International Conference on Power Energy, Environment and Intelligent Control, April 13-14, 2018, GL Bajaj Institute of Technology & Management, Greater Noida.
17. **General Chair**, International Conference on Computing, Power and Communication Technologies (GUCON), Galgotias University; India, September 28-29, 2018.
18. **General Chair**, International Conference on Advances in Computing, Communication Control and Networking (ICAC3N'18), GCET Greater Noida, October 12-13, 2018
19. **Patron**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, November 2-4, 2018 at MMM University of Technology Gorakhpur, India (5th UP CON 2018).
20. **General Chair**, Seventh International Conference on System Modelling & Advancement on Research Trends (SMART), 2018, TMU Moradabad, November 23-24, 2018.
21. **General Chair**, 15th IEEE India Council International Conference (INDICON), December 16-18, 2018 at Amrita Vidyapeetham, Coimbatore, India
22. **General Chair**, 2nd International Conference on Entrepreneurship, Innovation and Leadership 2018 (ICEIL2018), Amity University Noida, December 19-21, 2018.
23. **General Chair**, 4th International Conference On Internet of Things: Smart Innovation and Usages (IoT-SIU 2018) April 18-19, 2019 at KEC Ghaziabad, India.
24. **General Chair**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, November 8-10, 2019 at Aligarh Muslim University, Aligarh, India (6th UPCON 2019).
25. **Honorary General Chair**, 4th IEEE International Conference on Information Systems and Computer Networks (ISCOM2019), November 21-22, 2019, GLA University Mathura.
26. **General Chair**, International Women Institute of Technology Conference on Electrical and Computer Engineering-2019 (IEEE WITCON ECE-2019) at Women Institute of Technology, Dehradun on 22nd -23rd November 2019.
27. **General Chair**, 16th IEEE India Council International Conference (INDICON), December 13-15, 2019 at Marwadi University, Rajkot, Gujarat, India.
28. **Patron**, International Conference on Energy, Environment and Material Sciences (ICE2M), MMMUT Gorakhpur, December 1-3, 2019.
29. **Honorary General Chair**, International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC 2020), February 28-29, 2020, GLA Mathura, India.
30. **Patron**, International Conference on Electrical and Electronics Engineering (IC3), MMMUT Gorakhpur, February 14-15, 2020.
31. **Honorary General Chair**, IEEE Women in Engineering (WiE), International Leadership Symposium, Nov 6-8, 2020.
32. **Honorary General Chair**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, November 27-29, 2020 at MNNIT Allahabad, India (7th UPCON 2020).
33. **Patron**, 17th IEEE India Council International Conference (INDICON 2020), December 11-13, 2020 at NSUT New Delhi.
34. **General Chair**, 21th IEEE National Power Systems Conference (NPSC 2020), December 17-19, 2020, Indian Institute of Technology Gandhinagar, Gandhinagar, Gujarat.
35. **Patron**, 2nd IEEE International Conference on Advances in Computing, Communication Control and Networking –ICACCCN (ICAC3N-20), Galgotias College of Engineering and Technology, Greater Noida, India, December 18-19, 2020.

36. **Patron**, IEEE International Conference on Advance Computing and Innovative Technologies in Engineering Conference, 4th and 5th March, 2021, GCET Greater Noida.
37. **Patron**, 4th Recent Developments in Control Automation and Power Engineering (RDCAPE), October 7-8, 2021, Amity University Noida.
38. **Honorary General Chair**, IEEE 5th International Conference on Information Systems and Computer Networks (ISCON), 22nd - 23rd October 2021, GLA Mathura.
39. **Patron**, IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics*, November 13-15, 2021 at Tulas Institute Dehradun, India (8th UPCON 2021).
40. **General Chair**, 10th IEEE Scopus Indexed International Conference on System Modelling & Advancement on Research Trends (SMART-2021), TMU Moradabad, Dec 10-11, 2021.
41. **General Chair**, First IEEE International Conference on "Advances in Computing and Future Communication Technologies (ICACFCT-2021)" Meerut Institute of Engineering and Technology, Meerut India, 16-17 December 2021.
42. **Honorary General Chair**, 9th IEEE International Conference on Power Systems (ICPS) – 2021, December 16 - 18, 2021, IIT Kharagpur, India
43. **Patron**, 3rd IEEE International Conference on Advances in Computing, Communication Control and Networking (ICAC3N-21)", GCET Greater Noida, 17– 18 December 2021.
44. **General Chair**, 18th IEEE India Council International Conference (INDICON 2021), December 19-21, 2021, IIT Guwahati.
45. **Patron**, International Conference on Advance computing and Ingenious Technology in Engineering Science, GCET Greater Noida, December 30-31, 2021, GCET Greater Noida.
46. **Patron**, 2nd International Conference on Advanced Computing and Innovative Technologies in Engineering, GCET Greater Noida, June 9-10, 2022.
47. **Honorary General Chair**, 3rd Electric Power and Renewable Energy Conference (EPREC-2022), NIT Jamshedpur, May 27-29, 2022.
48. **Honorary General Chair**, 4th International Conference on Energy, Power and Environment (ICEPE-2022), NIT Meghalaya, April 29-May 1, 2022.
49. **Chief Patron**, 9th IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics (UPCON)*, IIIT Allahabad, December 2-4, 2022.
50. **Patron**, 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N-22), GCET, Gr Noida, Dec 16-17, 2022.
51. **Patron**, 1st International Conference on Communication, Security and Artificial Intelligence (ICCSAI-2022), SCEE, Galgotias University; December 23-24, 2022.
52. **General Chair**, International Conference on Disruptive Technologies (ICDT-2023), GL Bajaj ITM, Gr Noida, May 11-12, 2023.
53. **Patron**, 3rd International Conference on Advance Computing and Innovative Technologies in Engineering Conference, GCET Gr Noida, 12th and 13th May 2023.
54. **Patron**, 2nd International Conference on Communication, Security and Artificial Intelligence (ICCSAI-2023), SCEE, Galgotias University; November 23-25, 2023.
55. **Chief Patron**, 10th IEEE Uttar Pradesh Section Conference on *Electrical, Computer & Electronics (UPCON)*, IIIT Allahabad, December 1-3, 2023.
56. **Patron**, 5th IEEE International Conference on Advances in Computing, Communication Control and Networking (ICAC3N-21)", GCET Greater Noida, 17– 18 December 2023.

Personal Information

Father's Name (Late Shri) : Janak Raj Singh
Sex (Status) : Male (Married)
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

Tel: +91 512 597625 (O)/591259, Fax: +91 512 590063/590007

* Dr. D. P. Kothari, FNAE, FNASc, Fellow-IEEE , Hon Fellow - ISTE
Director – Research , MVSR Engineering College , Hyderabad

Nadergul (P.O) , Hyderabad - 501510

Ph.no:-919885920361/7207457011/9993546078

Email to: dpk0710@yahoo.com dpkvits@gmail.com

* Prof F.S. Wen

Professor, Department of Electrical Power Engineering and Mechatronics,
School of Engineering, Tallinn University of Technology,
Ehitajate tee 5, 19086 Tallinn, Estonia

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

Emails: wenfs@hotmail.com; fushuan.wen@gmail.com

Annexure-A

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 Energinet.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**, *Roorkee University, 1998*)
2. Design of electricity utility restructuring model for Indian power system (**Dr KG Upadhyay**, *MMMUT Gorakhpur, 2003*)
3. ATC and Congestion Management in deregulated environment (**Dr Ashwani Kumar**, *NIT Kurukshetra, 2003*)
4. Development of Nonlinear Adaptive Damping Controllers for Improving Power System Stability (**Dr B Kalyan Kumar**, *IIT Madrad, 2007*).
5. Development of Market Monitoring System and Swarm Particle Intelligence Based Bidding Strategies in Electricity Market (**Dr Prabodh Bajpai**, *IIT Kharagpur, 2007*)
6. Enhancement of Power System Performance Using Advanced Unified Power Flow Controllers (**Dr Sudhir K. Srivastava**, *MMMUT Gorakhpur, 2007*)
7. Loading Sensitivity and Pricing based Indices for Placement of FACTS Controller to enhance Power System Performance (**Dr JG Singh**, *AIT Bangkok, 2008*)
8. Fast Available Transfer Capability Determination and Its Enhancement using FACTS Controllers (**Dr Trapti Jain**, *IIT Indore, 2008*)
9. Detection and Localization of Power Quality Events in Noisy Environment and Classification using Support Vector Machines (**Dr U D Dwivedi**, *RGIPT Raibareilly, 2008*)
10. Frequency Regulation Service and Reactive Power Management in Electricity Markets (**Dr Sanjoy K. Parida**, *IIT Patna, 2009*)
11. Reactive Power Capability and Performance Analysis of Grid Connected Unified DFIG for Wind Power Applications (**Dr Bharat Singh Rajpurohit**, *IIT Mandi, 2009*)
12. Forecasting of Short-Term Load, Operating Reserve & Price and Optimal Generation Portfolio Management in Electricity Markets (**Dr N. M. Pindoriya**, *IIT Gandhinagar, 2009*)
13. Application of Artificial Intelligence (AI) Tools for Load, Price and Bid Forecasting in Power System (**Dr MM Tripathi**, *DTU Delhi, 2010*)
14. Development of Adaptive Load Shedding and Distance relaying Scheme utilizing Synchophasor Technology (**Dr Seethalekshmi K.**, *IET Lucknow, 2011, Thesis received POSOCO Award 2013*)
15. Synchrophasor Assisted State Estimation and Voltage Stability Monitoring including Optimal PMU Placement (**Dr Ranjana Sodhi**, *IIT Ropar, 2011*)
16. Real Time Power System Stability and Prediction using Synchrophasor Based Wide Area Monitoring System (**Dr Praveen Tripathy**, *IIT Gowahati, 2011*).
17. Estimation of Stationary and Time-Varying Harmonics in Emerging Power Systems (**Dr Sachin K Jain**, *IITDM Jabalpur. 2012, Thesis received POSOCO award 2013*).
18. Monitoring and Classifications of Power Quality Events in Emerging Power System (**Dr Dipti Saxena**, *MNIT Jaipur, 2012, Thesis received POSOCO award 2014*)
19. Swarm Intelligence Based DG and Capacitor Planning in Distribution Networks (**Dr Naveen Jain**, *COE Udaipur. 2013, Thesis received POSOCO award 2013*)
20. Development of Strategic Bidding of Supplier and Buyer in Electricity Markets (**Dr Arvind K Jain**, *NIT Agartala, 2014, 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, 2014, Thesis received *POSOCO award 2015*)
22. Generation Companies' Strategic Bidding In Day-Ahead Electricity Markets (**Dr Prerna Jain**, MNIT Jaipur, 2014)
23. Development of Control Schemes for Power Management and Operation of DC Microgrids (**Dr Mahesh Kumar**, 2015, Amity Univ, Faridabad, Thesis received *POSOCO award 2015*)
24. Economic and Stability Analysis of Optimally Placed Distributed Generations in Distribution Systems (**Dr P Pavani**, Alborg Univ. Denmark, 2015, 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, 2015, Thesis received *POSOCO award 2016*)
26. Hybrid State Estimation and Enhanced Monitoring of Power Systems Using Synchrophasors (**Dr SK Mallik**, NIT Patna, 2016, Thesis received *POSOCO award 2016*)
27. Evolutionary Technique Based Solution to the Unit Commitment Problem including Renewable Energy Sources (**Dr Anup Shukla**, IIT Jammu, 2016, 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 Bareilly, 2016)
29. Efficient Risk Management of Power Producers in Short Term Electricity Market Using Probabilistic Techniques (**Dr Debasmitta Panda**, NIT Warangal, 2017)
30. Improvements and Performance Analysis of PMSM Drive (**Dr Sweta Singh**, MSET, Maharshi Univ. Lucknow, 2020)
31. Multi-objective Distribution Network Reconfiguration and Optimal Allocation of Renewable Energy Sources (**Dr Priyanka Gangwar**, Smart Helio Pvt Ltd., 2020)
32. Decentralized Active Power Management and Control of a Microgrid using Multi Agent Based Approach (**Dr KK Singh Tomar**, KESCO Kanpur, August 2021).
33. Repeated Wavelet Transform based Forecasting of Wind-PV for Energy Storage System Management (Submitted: **Dr Aasim**, NIT Patna, 2021)
34. Improved Islanding Detection Methods for Inverter Interfaced Distributed Generators in Microgrid (**Dr Avinash Kumar**, University of Massachusetts, Lowell USA, 2021)
35. Congestion Management in Hybrid Electricity Markets Using Different Techniques (**Dr Aisvarya Narain**, UCER Allahabdd, 2021)
36. Active and Reactive Power Flow Control in Grid-Connected Permanent Magnet Synchronous Generator Based Wind Energy Conversion System (**Dr Puneet K Srivastava**, ITM Gorakhpur 2022)
37. Investigations on Harmonics/Inter-harmonics Estimation Techniques in Modern Power System (**Dr Ankit K Srivastava**, MMMUT Gorakhpur, 2022)
38. Solar Power Forecasting and Incentive Schemes for Voltage Control and Residential Demand Response (**Dr Chaman Lal Dewangan**, VIT Vellore, 2022)
39. Detection and Mitigation Strategies for False Data Injection (Dr **Gaurav Khare**, IIT Kanpur, 2022)
40. Design and Analysis of controllers for MMC Based HVDC Transmission (Dr **Ankit Yadav**, IIT Kanpur, 2022)

41. Aggregated Equivalent Models of Utility-Scale Wind Farm Integrated in the Power Network (**Dr A K Gupta, Eaton Pune, 2022**)
42. Optimal Operation of Active Distribution Networks using Voltage Control, Topology Variations, and Load Flexibility (Submitted. Mr V Vineet 2023)

Under progress

1. Under progress: (Samarendra P Singh, MMMUT Gorakhpur)
2. Under Progress (Atul Kumar Soni, IIT Kanpur)
3. Under Progress (Nivedita Singh, IIT Kanpur)
4. Under progress (Swastik Sharma, IIT Kanpur)
5. Under progress (Rahul, IIT Kanpur)
6. Under progress (Rajan Chaudhary, ABV-IIITM Gwalior)

M. Tech.

1. Multi-Objective Generation Dispatch (RK Srivastava, 1998)
2. Determination of Degree of Insecurity of Power System using FLN (HK Katwani, 1998)
3. Unit Commitment Using Fuzzy Dynamic Programming (Daya Kishan, 1999)
4. Environmental Constrained Generation Expansion Planning (VP Singh, 1999)
5. Error Identification and State Estimation in Power Systems (Bijendra Kumar, 2000)
6. Green House Gas mitigation from Indian Power Sector (Priya Ranjan, 2003)
7. Integration of GPS/GIS in Electric Power Distribution Automation (M Rajender, 2005)
8. Design and tuning of power system stabilizer for Kaiga nuclear power plant (S.P Panda, 2005)
9. Voltage stability assessment & enhancement of Nepal power system (Bishnu P Sapkota, 2006)
10. Angular stability enhancement of Nepal power system using Stabilizing controllers (Mahendra AC, 2006)
11. Optimal placement & operation of distributed generators in power systems (G. C. Sethi, 2006)
12. Optimal bidding strategies in a competitive electricity market using a particle swarm optimization (Punna Shiv Kumar, 2006)
13. Application of self-organizing map and extended relation function method for power transformer fault diagnosis (Ch. Subhash Chandra, 2006)
14. Development of Adaptive Supplementary Feedback Controller for GUPFC (Praveen Tripathy, 2006)
15. Neuro-Fuzzy Based Automatic generation Control in Deregulated Power Systems (K Sudheer, 2007)
16. Classification of Power Quality Events Using Support Vector Machine (Robin Gupta, 2008)
17. Recursive DFT and Kalman Filter Application for Fast & Robust Detection and Estimation of Harmonics and Voltage Variations (Chirag Vrushney, 2008)
18. Dynamic Performance Evaluation of Unified DFIG Architecture for Wind Power Generation (V. Emmoji, 2008)
19. Compensation of Delay in Networked Control System in Deregulated Automatic Generation Control (Kamala Kant, 2008)

20. Artificial Intelligence Based Location and Classification of Power Quality Events (Deepti Shakya, 2008)
21. Wind, Thermal and Hydro Unit Commitment Using Advanced Particle Swarm Optimization (J. Yadagiri, 2009)
22. Transmission Cost Allocation Using Power Flow Tracing Method (Pratibha Gupta, 2009)
23. Loss Minimization in Electrical Distribution Systems Through Optimal Network Reconfiguration and Allocation of Distributed Generation (K. Uday Chandrika, 2009)
24. Modeling and Control of Grid Connected Photovoltaic System Using PSCAD/EMTDC (S Jayachandra Naidu, 2009)
25. Performance Study of Hybrid Wind-Fuel Cell System Connected to High Voltage Grid (N Nagraj, 2009)
26. Development of Optimal PMU Placement Strategy and Support Vector Machine based Fault Detection, Classification and Location (P Pavani, 2010)
27. Distribution System Reconfiguration considering Reliability and Power Loss (Amunah, 2011)
28. An application of Average and Marginal Participation Methods for Transmission Pricing (Najmul Islam Usmani, 2011)
29. Identification of Harmonic Sources and Optimal Placement of Filter for Harmonic Mitigation (S Bhowmik, 2012)
30. Cellular Neural Networks: Applications in Power Systems (Manesh K Meena, 2012)
31. Low Voltage Ride through Solutions for DFIG Wind Turbine (Amrendra Edpuganti, 2012)
32. Performance Study on the Techniques for Monitoring the Power System Oscillations (Srinivas Chaturi, 2013)
33. Controller Design and Dynamic Analysis of PV System (M Sidhardha, 2013, *Thesis received POSOCO award 2014*)
34. Coherency Based Dynamic Equivalencing of Electric Power System (Shikha Chitora, 2014, *Thesis received POSOCO award 2015*)
35. Output Power Leveling of DFIG Using Battery Energy Storage System (Satakshi, , 2014)
36. Zero Net Energy House Clusters: Protection and Energy Management (Gaurav Pandey, 2015)
37. Design and Modeling of VSC-HVDC Transmission System having Wind Farm (Nirjhar Roy, 2015)
38. Control Strategies for Output Power Smoothing of DFIG with SVC in Wind Energy Conversion System (Ankit Jain, 2016)
39. Power Procurement Cost Analysis for Electrical Utilities in Uttar Pradesh (Praveen Kumar Nair, 2016)
40. Impact of Regulation Ancillary Service in Indian Electricity Market (Sitanshu Mishra, 2016)
41. Adaptive Protection Schemes for Distribution and Transmission Systems with Renewable Energy Sources (Varsha Shukla, 2017)
42. Design and Control of DC Microgrid with Energy Storage (Anmol Sharma, 2018)

Teaching & Research Activities

(a) Sponsored Research Projects

Sl. No	Name of the project	From /To	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	30/4/2001 29/10/2004	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.	21/11/2002 31/03/2006	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	15/02/2005 14/2/2008	DST	Rs 10.22 lakhs	Prof SC Srivastava
9.	Performance Analysis and Trading of Wind power Generation in Emerging Power System	26/7/2007 21/1/2010	CPRI/ MoP	Rs 21.60 lakhs	----
10	EHV/UHV Transmission system planning for UPPTCL	13/7/2011 12/7/2016	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	22/7/2011 21/7/2016	DST	7.5 Crores	Prof SC Srivastava & Others
12	Smart Multi-Terminal DC micro-grid for autonomous zero-net energy buildings	23/4/2014 29/8/2016	DST- UKIERI	27.208 lakhs	Dr Bharat Singh & Others
13	A Multi-dimensional Smart Energy Grids Analysis of Indian Scenario	3/11/2014 2/11/2017	DST- SERI	134.961 lakhs	YN Singh & IIT Mandi

14	Adaptive Clustering for Decentralized Resilient Energy Management	3/7/2014 2/7/2014	DST- NWO	71.32 Lakhs	Dr A. Mohaptra
15	Stabiliz-Energy	30/9/2014 31/3/2018	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	24/6/2016 31/3/2019	CPRI	31.25 lakhs	Dr Saikat Chakraborti
17	Data-Driven Intelligent Energy Management for Environmentally Sustainable Energy Access	01/06/2017 31/12/2020	DST- UKIERI	30.77 Lakhs	Dr Narnan Pindoriya and others
18	Stochastic Charging of Electrical Vehicles in Distribution Grid	1.12.2019 31.3.2021	TEQIP/ AICTE	11.67 lakhs	MJPRU Bareilly
19	U.S.-India collAborative for smart diStribution System wIth Storage (UI-ASSIST)	29/09/2017 28/09/2022	US- IUSSTF Forum	50 Crores	Prof SC Srivastava & other
20	Efficient Coupling of Water and Energy Technologies for smart sustainable cities (ECO-WET)	01/04/2018 31/07/2022	IGSTC	25.35 lakhs	Dr AN Tiwari
21	Integrated Renewable Energy Sources: Operation & Management	07/11/2019 06/11/2022	Indo- Norway	47.00	MNNIT Allahabad
22	E-Mobility: An Electricity Grid Perspective	25/06/2019 30/09/2022	Indo- Denmark	63.38 Lakhs	MNNIT Allahabad

(b) Consultancy Projects:

Sl. No.	Name of the project	From /To	Spons. Agency	Amount (Rs)	Other invest.
1.	Technical report of MDI & low power factor of m/s Guatam Cement, Hamirpur.	11/7/2008 10/7/2009	DVVNL Banda	28060	-
2.	Study on demand & energy charges against import of power during peak hours without drawl of active power	8/8/2008 7/9/2008	UP Sug. Mills Cogen Asso.	210675.0	----
3	Third Party Quality checking of works of UPSIDC	15/4/2009 14/10/2009	UPSIDC	112360.0	-
4	Development of Transmission pricing scheme for Orissa Grid	9/1/2009 30/6/2011	OERC	294945.0	Dr Anoop Singh
5	EHV/UHV Transmission system planning for UPPTCL- Study cell IIT Kanpur.	13/7/2011 31/12/2012	UP PTCL	40.0 Lakhs	Prof SC Srivastava & Dr N Gupta
6	BSES Rajdhani Power, New Delhi	12/10/2010 11/10/2013	BSES	10.0 lakhs	Prof SC Srivastava

7	Course on Development of Distribution Equipments	1/4/2012 31/3/2014	PFC New Delhi	6.7416 lakhs	--
8	33 kV substation design and estimation of cost	1/4/2013 31/7/2014	Sagar Univ.	21.067 lakhs	Er Rajeev Garg
9	Studies on Voltage stability and small signal stability	15/11/2012 31/12/2013	GE, Bangalore	10.3933 lakhs	Dr Saikat Chakraborti
10	Vetting of Estimate for Illumination at IA Trans Ganga Unnao	16/9/2015 15/9/2016	UPSIDC	69.07 lakh	-
11	Consultancy work on upgradation, expansion and redesigning of 33/11/0.4 kV substations/network	15/12/2015 14/12/2016	IIT Allahabad	7.89 lakhs	---
12	Vetting of Estimate for Power and Lighting Network at IA Trans Ganga Unnao	25/4/2016 24/4/2017	UPSIDC	57.25 lakh	-
13	Technical Vetting of Alknanda Enclave, Avadh Vihar, Avash Vikas, Lucknow	18/6/2016 15/6/2017	AVPL	3.00 lakhs	--
14	Course on Advanced and Modern Electronics and Machine Drive	10/4/2017 9/10/2017	ETC Kanpur	2.76 lakh	Dr A. Mohapatra
15	Third Party Quality Inspection of JP Narayan International Center, Gomati Nagar	1/9/2015 31/3/2020	LDA Lucknow	29.07 lakhs	Dr Sudhir Mishra
16	Course on Power System Economics	1/12/2017 31/3/2018	POSOCO New Delhi	10.99 lakh	Dr Vimal Kumar
17	Technical Advice/Vetting of Estimates and Tenders for UPSIDA, Kanpur	24/12/2020 30.06.2023	UPSIDA	47.20 Lakh	--

(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 th 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"> ● Challenges in smart grid implementation ● Smart distribution systems- Smart Communities: An Indian Case 	4:50

		<ul style="list-style-type: none"> ● Smart distribution systems- Indian Power System beyond 2020 	
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"> ● Estimation of Grid Harmonics in the Presence of Renewable Energy Sources ● Smart Multi-Terminal DC μ-Grid Control and Operation 	3:00
37	Guest Lecture, GL Bajaj, Gr Noida, Feb 9, 2017.	Smart Grid Challenges	1:30
38	IEEE R10 mini-POCO Forum, Bangladesh	Challenges and Issues in R10 Conferences	2:00
39	IEEE workshop on Research Paper Writing and Intellectual Property Rights on 25th March 2017	Writing effective paper and publishing it	1:00
40	International IEEE Women Symposium on Empowering Women to Develop Confidence and Leadership Quality to Bring Revolution in Society , 25 th March 2017	Women Empowerment in India: Issues and Challenges	1:00
41	ATAL FDP on Artificial Intelligence and Green Power Technology, KNIT Sultanpur, 4-18 June 2021.	ANN based Wind and Solar Power Forecasting	2:00
42	Challenges and Opportunities in Distribution Network and Microgrid in the Context of Carbon Neutrality, 15 th June 2022, IET China	Smart Multi-terminal DC micro-grid Control	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

Worked as Vice-Chancellor, Madan Mohan Malaviya University of Technology Gorakhpur-273010 (28.4.2017 to 27.07.2020)

(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, April 2002 to April 2017 & August 2020 to date)

8. Member, DPGC (From May 2002 to 2005, 2010 to 2016)
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 (July 2011 to December 2012)
17. Member, DFAC (07.03.2010 to 31.12.2012 & 01.01.2021 to 07.04.2022)
18. Member, Board of Governors, IIT Kanpur (January 2012 to December 2013)
19. Member, Green Cell, IIT Kanpur (2014 to Dec 2015)
20. Professor-in-Charge, Electrical Works, IIT Kanpur (January 2013 to Dec 2015)
21. Member, Environmental Advisory Committee, IIT Kanpur (2014 to Dec 2015)
22. Chairman, JEE (Advance) 2016
23. Head, Electrical Engineering Department (Feb 2017 to April 2017)

Professional and other Experiences

Current Positions (Others):

- **Chairman, Advisory/Expert Committee** for UP CST Lucknow, R&D projects (Jan 29, 2022 to date)
- **Member, Board of Governors**, Graphic Era Hill University (30 July 2018 to date).
- **Member, Board of Management**, Quantum University, Roorkee (25.06.2021 to date)
- **Member, Management of Centre for Green and Renewable Energy**, AMU Aligarh (03.09.2021 to date)
- **Member, Board of Faculty**, TMU Moradabad (07.04.2021 to date)
- **Member, Board of Studies**, NIT Jamshedpur (06.07.2021 to date)
- **IEEE R-10 (West) PES chapters' Coordinator 2023**
- **Executive Committee Member**, IEEE UP Section, IITK Kanpur (2003-to date)
- **Council Member**, Intelligent System Applications to Power Systems (ISAP).
- **Vice-Chairman, Steering Committee**, International Conference on Power Systems (ICPS)
- **Steering Committee Member**, National Power System Conference (NPSC)
- **Editor**, Transactions of INAE (January 2022 to date)
- **Associate Editor**, IET Energy Conversion and Economics, UK (Sept 2020 to date)
- **Associate Editor**, Journal of Modern Power and Clean Energy (2015 to date).
- **Editorial Board member**, International Journal of Electricity Sector Management, UK
- **Editorial Board member**, International Journal of Electrical and Power Engineering
- **Editor Board member**, International J. of Systems Signal Control & Engg Application
- **Honorary Editorial Board Member**, Int. Journal of Bio-Sciences and Technology.
- **Associate Editor (Electrical)**, Int. Journal of Engineering, Sciences & Technology (Dec 2009 to date)

Past Positions:

- Chairman, Board of Governors, Institute of Engineering & Technology, DRML Avadh University, Ayodhya (Nov 5, 2020 to Nov 4, 2022)
- Chairman, Board of Governors, Faculty of Engineering & Technology, MJP Ruhelkhand University, Bareilly (July 2018 to September 2021)
- Chairman, IEEE India Council 2019 -2020; Immediate Past Chairman, IEEE India Council 2021-2022; IEEE IC Chair-Elect 2017-2018.
- Vice-Chair, IEEE Region 10 Technical Activities 2019-2020
- Member, Board of Governors, IIT Kanpur (Jan. 2014-Dec 2015 & June 2017-July 2020), IMS Engg College Ghaziabad (Oct 2014–Oct 2016); MMMEC Gorakhpur (Dec 2012 to

- Dec 2013); KNIT Sultanpur (30July 2018 29July 2021), GB Pant Engg College, Pauri (Dec 2016 to July 2022).
- Academic Council members: Graphic Era Hill Univ, Dehardun (Jan. 2011 to July 2018), NSIT Delhi (25Sept. 2017 to 16Oct 2018), KNIT Sultanpur (Oct 2012 to Oct 2014), HBTU Kanpur (Dec 2016 to December 2019), GBTU Lucknow (Oct 2012- Dec 2013)
 - Member Senate: MNNIT Allahabad (March 2013 to Nov 8, 2020), MANIT Bhopal (June 2012 to June 2014), IIT Mandi (January 2013 to December 2016), Sant Longowal Institute of Engg & Tech, Longowal (Nov 2016 to 2019), Board of Studies (BoS) Thapar University (Jan 2008 to Dec 2009); Invertis University (Feb 2011 to Feb 2013); GBTU Lucknow (March 2012-March 2014); MMMEC Gorakhpur (August 2013- Dec 2013);
 - Member, Institute Quality Assurance Committee, MITS Gwalior (Jan 2017 to Feb 2019)
 - RDC Convener (Electrical) GBTU Lucknow (Dec 2010- Dec 2013)
 - Member, Advisory committee of UPSERC Lucknow (April 2009- March 2011)
 - Chair-Elect 2017-2018, IEEE India Council
 - Executive Committee Member, IETE, Kanpur Center (2014-2024)
 - Coordinator, IEEE R10 Conference and Technical Seminar (2015 to 2018)
 - Executive Committee Member, IE (India), Kanpur Local Center (2006-to 2018)
 - Chairman, Institution of Electronics & Telecommunication Engineers, Kanpur Center (2016-2018)
 - Chairman, IEEE UP Section, IITK Kanpur (2013-2014)
 - Chairman, IEEE PES/IAS Chapter, IEEE UP Section (2012-2013)
 - 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 (2008-2014)
 - Treasurer, IEEE UP Section, IITK Kanpur (2005)
 - Administrator, IEEE Online Communities (January 2006 to 2016)
 - Moderator, IEEE Online Communities (April 2003 to 2016)
 - Associate Editor, IEEE Potential (2017 to 2019)
 - Associate Editor, International Journal of Electrical Energy Systems
 - Editorial Board Editor, International Journal of Renewable Energy Technology
 - Editor-in-Chief, Annual Conference on Power, Energy and Electrical Engg (2013)
 - 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).

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).
7. 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.
8. 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.
9. 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.
10. 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.

11. 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.
12. **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.
13. **SN Singh** and AK David, *Towards Dynamic Security Constrained Congestion Management in Open Power Market*, **IEEE Power Engineering Review**, August 2000, pp.45-47.
14. **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.
15. **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.
16. **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.
17. **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.
18. **SN Singh**, *Challenges and Initiatives in Power Engineering Education*, **IEEE Computer Applications in Power**, Vol. 14, No. 2, April 2001, pp. 36-41.
19. 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.
20. **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.
21. 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.
22. **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.
23. **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.
24. **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.
25. **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.

26. **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.
27. **SN Singh**, "*Emerging Issues and New Challenges in Electric Power Systems*", **International Energy Journal**, Vol. 2, No.2, December 2001, pp.53-66.
28. **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.
29. **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.
30. 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.
31. **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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. **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.
39. **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.

40. 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.
41. 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.
42. 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.
43. 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.
44. **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.
45. **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.
46. 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.
47. 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.
48. 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.
49. B. Kalyan Kumar, **SN Singh** and SC Srivastava, *Placement of FACTS Controllers using Controllability Indices to Damp Out Inter-Area Oscillations*, **IEE Proc. Generation, Transmission & Distribution**, Vol. 1, No.2, March 2007, pp. 209-217.
50. 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.
51. 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.
52. 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.

53. 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.
54. **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.
55. 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.
56. **SN Singh** and I Erlich, *Strategies for Wind Power Trading in Electricity Markets*, **IEEE Trans on Energy Conversion**, Vol. 23, No. 1, March 2008, pp. 249-256.
57. BS Rajpurohit and **SN Singh**, *Modeling of Wind Turbines for Power System Studies: Key Issues*, **Journal of CPRI**, Vol. 4, No.1, March 2008, pp. 97-104.
58. P Bajpai, Shiv Kumar Punna and **SN Singh**, *Swarm Intelligence Based Strategic Bidding in Competitive Electricity Markets*, **IET Proc. Generation, Transmission & Distribution**, Vol.2, No.2, March 2008, pp.175-184.
59. SK Parida, **SN Singh** and SC Srivastava, *A Hybrid Approach towards Security Constrained Reactive Power Planning in Electricity Markets*, **Electric Power Components and Systems**, Vol. 36, No. 6, June 2008, pp. 649-663.
60. **SN Singh** and I Erlich, *Wind Power Trading in Electricity Markets*, (Editorial) **International Journal of Energy Technology and Policy**, Vol. 6, No. ¾, 2008, pp. 191-195.
61. BS Rajpurohit, **SN Singh** and I Erlich, *Wind Power in Electricity Markets: Key Issues and Challenges*, **International Journal of Energy Technology and Policy**, Vol. 6, No. ¾, 2008, pp. 196-211.
62. Fushuan Wen, Dong Hua, Qin Wang and **SN Singh**, *Wind Power Generation in China: Present Status and Future Prospects*, **International Journal of Energy Technology and Policy**, Vol. 6, No. ¾, 2008, pp. 254-276.
63. U.D. Dwivedi, Deepti Shakya and **SN Singh**, *Power Quality Monitoring and Analysis: An Overview and Key Issues*, **International Journal of Systems Signal Control and Engineering Application**, Vol., 1, No.1, 2008, pp. 74-88.
64. N.M. Pindoriya, **SN Singh** and SK Singh, *An Adaptive Wavelet Neural Network Based Energy Price Forecasting in Electricity*, **IEEE Trans. on Power System**, Vol. 23, No.3, August 2008, pp. 1423-1432.
65. SK Parida, **SN Singh** and SC Srivastava, *Assessment and Analysis of Reactive Power Concentration in Electricity Markets*, **Journal of Electric Power Science and Technology**, China, vol. 23, no. 3, September 2008, pp.18-24.
66. P Bajpai and **SN Singh**, *Strategic bidding in network constrained electricity markets using FAPSO*, **International Journal of Energy Sector Management**, Vol. 2, No.2, 2008, pp. 274-296.

67. MM Tripathi, KG Upadhyay and **SN Singh**, *Short-Term Load Forecasting Using Generalized Regression and Probabilistic Neural Networks in Electricity Market*, **The Electricity Journal**, Vol. 21, No. 9, November 2008, pp. 24-34.
68. T. Jain, **SN Singh** and SC Srivastava, *Dynamic Available Transfer Capability Computation using a Hybrid Approach*, **IET Gen. Trans. & Distribution**, Vol. 2, No.6, November 2008 pp. 775–788.
69. N.M. Pindoriya, **SN Singh** and SK Singh, *Short-Term Load Forecasting in Electricity Markets*, **Directions, IIT Kanpur**, Vol. 9 , No.1 , December 2008, pp. 144-150.
70. Sotirios B. Skretas, Demetrios P. Papadopoulos and **SN Singh**, *ANN and Fuzzy Logic Controller Design for Hybrid Wind/PV System Connected to MV Distribution Grid*, **International Journal of Energy Sector Management**, Vol. 2, No. 4, 2008, pp. 499-520.
71. Naveen Jain, **SN Singh** and Fushuan Wen, *Distributed Generation: Recent Trends and Future Challenges*, **Journal of Electric Power Science and Technology**, Vol.23, No.4, 2008, pp.53-61.
72. Ashwani Kumar, SC Srivastava and **SN Singh**, *Impact of TCPAR on Cluster-based Congestion Management using Improved Performance Index*, **Iranian Journal of Electrical and Computer Engineering**, Vol. 7, No.2, Fall-Summer, 2008, pp. 89-97.
73. SK Parida, **SN Singh** and SC Srivastava, *Ancillary Services Management Policies in India: An Overview and Key Issues*, **The Electricity Journal**, Vol. 22, No.1, January/February 2009, pp. 88-97.
74. Bharat Singh and **SN Singh**, *Voltage Stability Assessment of Grid Connected Offshore Wind Farms*, **Wind Energy**, Vol. 12, No. 2, March 2009, pp. 157-169.
75. Bharat Singh and **SN Singh**, *Reactive Capability Limitation of Doubly Fed Induction Generators*, **Electric Power Components and Systems**, Vol. 37, No. 4, April 2009, pp. 427-440.
76. JG Singh, **SN Singh** and SC Srivastava, *Optimal Placement of UPFC based on System loading Distribution Factors*, **Electric Power Components and Systems**, Vol. 37, No.4 , April 2009, pp. 441-463.
77. N Amuthan and **SN Singh**, “*Direct Model Reference Adaptive Internal Model Controller for DFIG Wind Farms*, **International Journal of Recent Trends in Engineering (Electrical & Electronics)**, Vol. 1, No. 3, June 2009, pp. 7-11.
78. T Jain, **SN Singh** and SC Srivastava, *Assessment of Oscillatory Stability Constrained Available Transfer Capability*, **International Journal of Electrical Power and Energy Systems**, Vol. 31, June 2009, pp. 192-200.
79. Bharat Singh and **SN Singh**, *Wind Power Interconnection into Power System: A Review on Grid Code Requirements*, **The Electricity Journal**, Vol. 22, Issue 5, June 2009, pp 54-63.
80. Bharat Singh and **SN Singh**, *Improved Reactive Power Capability of Grid Connected Doubly Fed Induction Generator*, **Wind Engineering**, Vol. 33, No. 4, June 2009, pp. 403-415.

81. Umakant Dhar Dwivedi and **SN Singh**, *A Wavelet-based Denoising Technique for Improved Monitoring and Characterization of Power Quality*, **Electric Power Components and Systems**, Vol. 37, No.7 , July 2009, pp. 753-769.
82. BS Rapurohit, **SN Singh** and Fushuan Wen, *Generalized Voltage Collapse Index for Long Transmission Network*, **Journal of Electric Power Science and Technology**, Vol.24, No.1, 2009, pp.30-37.
83. Umakant Dhar Dwivedi and **SN Singh**, *De-noising Techniques with Change-Point Approach for Wavelet-Based Power Quality Monitoring*, **IEEE Trans on Power Delivery**, Vol. 24, No. 3, July 2009, pp. 1719-1727.
84. JG Singh, P Tripathy, **SN Singh** and SC Srivastava, *Development of a Fuzzy Rule Based Generalized Unified Power Flow Controller*, **European Transaction of Electric Power**, Vol. 19, No. 5, July 2009, pp. 702-717.
85. SK Parida, **SN Singh**, and SC Srivastava, *An Integrated Approach for Optimal Frequency Regulation Service Procurement in India*, **Journal of Energy Policy**, Vol. 37, No. 8, August 2009, pp. 3020-3034.
86. P. Bajpai and **SN Singh**, *Effective Market Monitoring for Surveillance of Indian Electricity Market*, **International Journal of Energy Sector Management**, Vol. 3, No.3, 2009, pp. 275-292.
87. SK Parida, **SN Singh**, and SC Srivastava, *Reactive Power Cost Allocation by Using a Value Based Approach*, **IET Gen., Trans. & Dist.**, Vol. 3, No.9, September 2009, pp. 872-884.
88. SK Parida, **SN Singh**, SC Srivastava and P Chanda, *Remuneration Towards Frequency Regulation Service Provision in India through a Novel Capacity Linked Mechanism*, **Journal of CPRI**, Vol. 5, No. 2, September 2009, pp. 65-76.
89. M.M. Tripathi, K.G. Upadhyay and **SN Singh**, *A Novel Method of Load Forecasting Using GRNN and PNN Techniques in PJM and Australian Electricity Market Using Market Pricing Signal As Input*, **International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences (IJ-ETA-ETS)**, Vol. 2, No. 2, June– December 2009, pp. 604-610.
90. T Jain, **SN Singh** and SC Srivastava, *Dynamic ATC Enhancement through Optimal Placement of FACTS Controllers*, **Electric Power Systems Research**, Vol. 79, No. 11, November 2009, pp. 1473-1482..
91. M.M. Tripathi, K.G. Upadhyay and **SN Singh**, *Electricity Price Forecasting Using Generalized Regression Neural Network (GRNN) for PJM Electricity Market*, **International Review on Modelling and Simulation (I.RE.M.O.S.)**, Vol.1, N.2, December 2009.
92. Umakant Dhar Dwivedi and **SN Singh**, *Enhanced Detection of Power Quality Events Using Intra and Inter-Scale Dependencies of Wavelet Coefficients*, **IEEE Trans on Power Delivery**, Vol. 25, No. 1, January 2010, pp. 358-366.

93. SK Parida, **SN Singh** and SC Srivastava, *An Approach to Promote Frequency Regulation Service in India*, **International Journal of Energy Sector Management**, Vol. 4, No.1, 2010, pp. 6-23.
94. Naran M. Pindoriya and **SN Singh**, *Forecasting of Short-Term Electric Load Using Application Of Wavelets With Feed-Forward Neural Networks*, **International Journal of Emerging Power Systems**, Vol. 11, No. 1, Art no. 3, 2010.
95. Ranjana Sodhi, SC Srivastava and **SN Singh**, *A Phasor-assisted Hybrid State Estimator*, **Electric Power Components and Systems**, Vol. 38, No. 5, March 2010.
96. T Jain, **SN Singh** and SC Srivastava, *Adaptive Wavelet Neural Network Based Fast Dynamic ATC Determination*, **IET Generation, Transmission & Distribution**, Vol. 4, No.4, April 2010, pp. 519-529.
97. D Saxena, **SN Singh** and KS Verma, *Power Quality Event Classification: Overview and Key Issues*, **International Journal of Engineering, Sciences and Technology**, Vol. 2, No. 3, May 2010, pp. 186-199.
98. **SN Singh**, KS Verma and D Saxena, *Application of Computational Intelligence in Emerging Power Systems*, **International Journal of Engineering, Sciences and Technology**, Vol. 2, No. 3, May 2010, pp. 1-8.
99. P Tripathy, SC Srivastava and **SN Singh**, *A Divide-by-Difference Filter Based Algorithm for Estimation of Generator Rotor Angle utilizing Synchro-Phasor Measurements*, **IEEE Trans. on Instrumentation & Measurements**, Vol. 59, No. 6, June 2010, pp. 1562-1570.
100. M. M. Tripathi, K. G. Upadhyay, S. N. Singh, *Generalized Regression Neural Network Based Bid Forecasting in Competitive Electricity Market*, **International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences**, July '10 – Dec '10, Vol. 3, No. 2, pp. 541-545.
101. M. M. Tripathi, K. G. Upadhyay, S. N. Singh, *Forecasting of Spinning Reserve Using GRNN in California Electricity Market*, **International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences**, July '10 – Dec '10, Vol. 3, No. 2, pp. 552-556.
102. Seethalekshmi K., **SN Singh** and SC Srivastava, *An Adaptive Scheme for Minimal Load Shedding Utilizing Synchrophasor Measurements to Ensure Frequency and Voltage Stability*, **Electric Power Components and Systems**, Vol. 38, No. 11, August 2010, pp. 1211 – 1227.
103. SK Srivastava and **SN Singh**, *ANN Based Performance Analysis of UPFC in Power Flow Control*, **Journal of Energy and Power Engineering, USA**, Vol.4, No.8, August 2010, pp.40-47.
104. Ranjana Sodhi, SC Srivastava and **SN Singh**, *Optimal PMU Placement Method for Complete Topological and Numerical Observability of Power System*, **Electric Power Systems Research**, Vol. 80, No. 9, September 2010, pp. 1154-1159.
105. Yuguo Qi, Fushuan Wen, Ke Wang, Li Li, and **SN Singh** *Fuzzy Comprehensive Evaluation and Entropy Weight Decision-Making Method for Power Network Structure*

- Assessment*, **International Journal of Engineering, Sciences and Technology**, Vol. 2, No. 5, 2010, pp. 92-99.
106. Naran M. Pindoriya, **SN Singh** and SK Singh, *Multi-Objective Mean-Variance-Skewness Model for Generation Portfolio Allocation in Electricity Markets*, **Electric Power Systems Research**, Vol. 80, No. 10, October 2010, pp. 1314-1321.
 107. Ranjana Sodhi, SC Srivastava and **SN Singh**, *Multi-Criteria Decision Making Approach for Multi-stage Optimal Placement of PMUs*, **IET Generation, Transmission & Distribution**, Vol. 5, No.2, February 2011, pp. 181-190.
 108. T Jain, **SN Singh** and SC Srivastava, *Fast Static ATC Determination Using Radial Basis Neural Network*, **International Journal of Applied Soft Computing**, Vol. 11, No. 2, March 2011, pp. 2756-2764.
 109. SK Srivastava and **SN Singh**, *Fuzzy Logic based power flow control analysis of advanced unified power flow controller*, **Journal of Energy and Power Engineering**, Vol.5, No.3, March 2011, pp.252-259.
 110. Naran M. Pindoriya, **SN Singh** and SK Singh, *Application of Adaptive Wavelet Neural Network to Forecast Operating Reserve Requirements in Forward Ancillary Services Market*, **Journal of Applied Soft Computing**, Vol. 11, No. 2, March, 2011.
 111. Daniel Hernández-González, Guillermo Gutiérrez Alcaraz, and **SN Singh**, *GENCOs Multi-Period Expansion Model in a Competitive Electricity Market*, **International Journal of Power and Energy Conversion**, Vol. 3, No.1/2, 2012, pp. 77 - 93.
 112. Bharat Singh and **SN Singh**, *Development of Grid Connection Requirements for Wind Power Generators in India*, **Renewable and Sustainable Energy Reviews**. Vol. 15, No. 3, April 2011, pp. 1669-1674
 113. P Tripathy, SC Srivastava, **SN Singh**, *A Modified TLS-ESPRIT based Method for Low Frequency Modes Identification in Power Systems utilizing Synchrophasor Measurements*, **IEEE Trans on Power System**, Vol. 26, No. 2, May 2011, pp. 719 - 727.
 114. D Saxena, **SN Singh** and KS Verma, *Wavelet based Denoising of Power Quality Events for Characterization*, **International Journal of Engineering, Sciences and Technology**, Vol. 3, No. 3, May 2011.
 115. Bindeshwar Singh, NK Sharma, AN Tiwari, KS Verma and **SN Singh**. *Applications of Phasor Measurement Units (PMUs) in Electric Power System Networks Incorporated with FACTS Controllers*, **International Journal of Engineering, Sciences and Technology**, Vol. 3, No. 3, May 2011.
 116. Seethalekshmi K., **SN Singh** and SC Srivastava, *A Synchrophasor Assisted Frequency and Voltage Stability Based Load Shedding Scheme for Self Healing of Power System*, **IEEE Trans on Smart Grid**, Vol. 2, No. 2, June 2011, pp. 221-230.
 117. SK Jain and **SN Singh**, *Harmonics Estimation in Emerging Power System: Key Issues and Challenges*, **Electric Power Systems Research**, Vol. 81, No. 9, September 2011, pp. 1754-1766.
 118. Seethalekshmi K., **SN Singh** and SC Srivastava, *Synchrophasor Assisted Adaptive Reach Setting of Distance Relays in Presence of UPFC*, **IEEE Systems Journal**, Vol. 5, No. 3, September 2011, pp. 396-405.

119. SK Parida, **SN Singh** and SC Srivastava, *A review on reactive power management in electricity markets*, **International Journal of Energy Sector Management**, Vol. 5, No.2, 2011, pp. 201 - 214.
120. **SN Singh**, D Saxena and Jacob Ostegaard, *Assessment of Emission Trading Impacts on Competitive Electricity Market Price*, **International Journal of Electricity Sector Management**, Vol. 5, No. 3, 2011, pp. 333-344.
121. P Pavani, **SN Singh** and SC Srivastava, *Support Vector Machine Based fault Diagnosis using Synchrophasor Measurements*, **CPRI Journal**, Vol. 7, No. 2, September 2011, pp. 187-198.
122. D. Saxena, Sayak Bhaumik, **SN Singh** and KS Verma, *Optimal Placement of Power Quality Monitors*, **CPRI Journal**, Vol. 7, No. 2, September 2011, pp. 199-208.
123. AK Jain, SC Srivastava, **SN Singh** and L Srivastava, *Coordinated bidding strategy of a supplier in day-ahead and balancing energy market*, **CPRI Journal**, Vol. 7, No. 2, September 2011, pp. 223-234.
124. Dipendra Singh, KS Verma and **SN Singh**, *Changing Scenario of Electric Power Injection: Generation Side to Load Side*, **Electrical India**, Vol. 51, No. 12, December 2011, pp 56-64.
125. Bindeshwar Singh, K.S. Verma, Deependra Singh, **S.N. Singh** , *A Novel Approach For Optimal Placement Of Distributed Generation & Facts Controllers In Power Systems: An Overview And Key Issues*, *International Journal of Reviews in Computing*, Vol. 7, September 2011.
126. B Singh, KS Verma, D Singh, **SN Singh**, *Multi-Objective Var Planning with SVC Using Particle Swarm Optimization Techniques in Power System Networks*, *Journal of Engineering and Technology*, Vol. 1, No.1, Dec 2011, pp.1-27.
127. Bindeshwar Singh, K.S. Verma, Deependra Singh, **S.N. Singh**, *A Novel Multi-Objective Approach for Planning of DGs in Emerging Power Systems*, *Journal of Engineering and Technology*, Vol. 1, No.1, Dec 2011, pp. 37-60
128. B Amanulla, S Chakrabarti and **SN Singh**, *Reconfiguration of Power Distribution Systems Considering Reliability and Power Loss*, **IEEE Trans on Power Delivery**, Vol. 27, No. 2, April 2012, pp. 918 - 926.
129. K Bhaskar and **SN Singh**, *AWNN Assisted Wind Power Forecasting Using Feed-Forward Neural Network*, **IEEE Trans on Sustainable Energy**, Vol. 3, No. No. 2, April 2012, pp. 306 - 315.
130. Ranjana Sodhi, SC Srivastava and **SN Singh**, *A Simple Scheme for Wide Area Detection of Impending Voltage Instability*, **IEEE Trans on Smart Grid**, Vol. 3, No. 2, June 2012, pp. 818-827.
131. Sachin K Jain and **SN Singh**, *Exact Model Order ESPRIT Technique for Harmonics and Interharmonics Estimation*, **IEEE Trans on Measurement and Instrumentation**, Vol. 61, No. 7, July 2012, pp. 1915 - 1923.
132. Seethalekshmi K., **SN Singh** and SC Srivastava, *A Classification Approach Using Support Vector Machines to Prevent Distance Relay Mal-operation under Power Swing*

- and Voltage Instability*, **IEEE Trans on Power Delivery**, Vol. 27, No. 3, July 2012, pp. 1124-1133.
133. Sachin K Jain and **SN Singh**, *Estimation of Grid Harmonics in the Modern Electric Power Systems*, **Electrical India**, Vol. 52, No. 7, July 2012, pp. 108-116.
 134. AK Jain, SC Srivastava, **SN Singh** and L Srivastava, *Strategic Bidding in Transmission Constrained Electricity Markets using Artificial Bee Colony Algorithm*, **Electric Power Components and Systems**, Nov 2012, pp. 1768-1788
 135. Sachin K Jain and **SN Singh**, *Fast Harmonic Estimation of Stationary and Time-Varying Signals using EA-AWNN*, **IEEE Trans on Measurement and Instrumentation**, Vol. 62, No. 2, Feb 2013, pp. 335-343.
 136. Naveen Jain, **SN Singh**, and SC Srivastava, *Swarm Intelligence based Distribution Load Flow Method for Distributed Generation Planning*, **The CPRI Journal**, Vol. 9, No. 1, pp. 31-44, March 2013.
 137. Naveen Jain, **SN Singh**, and SC Srivastava, *PSO based Multi-Criteria Placement and Impact Evaluation of Distributed Generators in Indian Context*, **The CPRI Journal**, Vol. 9, No. 2, pp. 251-270, June 2013.
 138. Sachin K Jain, **SN Singh** and JG Singh, *An Adaptive Time-Efficient Technique for Harmonics Estimation of Non-stationary Signals*, **IEEE Trans on Industrial Electronics**, Vol. 60, No. 8, August 2013, pp. 3295-3303.
 139. Naveen Jain, **SN Singh** and SC Srivastava, *A Generalized Approach for DG Planning and Viability Analysis under Market Scenario*, **IEEE Trans on Industrial Electronics**, Vol. 60, No. 11, November 2013, pp. 5075-5085.
 140. D. Saxena, Sayak Bhaumik, and **S.N. Singh**, *A new strategy for placement of tuned passive harmonic filters in power systems*, **Electrical India**, Vol. 53, No. 12, December 2013, pp. 74-84.
 141. D. Saxena, Sayak Bhaumik, and **S.N. Singh**, *SVM based characterization and classification of composite power quality events using HHT*, **Power Engineer Journal**, Vol. 15, No.2, July-December 2013, pp. 24-91.
 142. Sachin K Jain and **SN Singh**, *Low-Order Dominant Harmonics Estimation using Adaptive Wavelet Neural Network*, **IEEE Transactions on Industrial Electronics**, Vol. 61, No. 1, January 2014, pp. 428-435.
 143. Sanjeev K. Mallik, **SN Singh** and Saikat Chakraborti, *A Robust Regularized Hybrid State Estimator for Power Systems*, **Electric Power Components and Systems**, Vol. 42 No. 7, April 2014, pp. 671-681.
 144. D Saxena, Sayak Bhaumik and **SN Singh**, *Identification of Multiple Harmonic Sources in Power System using Optimally Placed Voltage Measurement Devices*, **IEEE Transactions on Industrial Electronics**, Vol. 61, No. 5, May 2014, pp. 2483-2492.
 145. D Saxena, **SN Singh**, KS Verma and Shiv K Singh, *HHT Based Classification of Composite Power Quality Events*, **International Journal of Energy Sector Management**, Vo. 8, No. 2, May 2014, pp. 146-159.

146. **SN Singh**, *Ancillary Services- International Experiences & Implementation in India*, **International Journal of Water and Energy**, Vol. 57, no.5, August 14, 2014, pp 33-42.
147. P Pavani and **SN Singh**, *Placement of DG for Reliability Improvement and Loss Minimization with Reconfiguration of Radial Distribution Systems*, **International Journal of Energy Sector Management**, Vol. 8, No. 3, August 2014, pp.312 – 329.
148. Anup Shukla and **SN Singh**, *PSO for Solving Unit Commitment Problem Including Renewable Energy Sources*, **Electrical India**, Vol. 54, No. 12, December 2014, pp. 100-105.
149. Naveen Jain, **SN Singh** and SC Srivastava, *PSO Based Placement of Multiple Wind DGs and Capacitors utilizing Probabilistic Load Flow Model*, **Journal of Swarm and Evolutionary Computation**, Vol. 19, December 2014, pp 15–24.
150. Khoisnam Steela, Bharat Singh Rajpurohit, **SN Singh**, *Power Education Revolution- A journey Towards a Smarter Future Power Sector*, **Journal of Engineering Education Transformations**, Vo. 28, No. 2 &3, Oct 2014 & Jan 2015, pp. 6-14.
151. P Pavani and **SN Singh**, *Optimal Placement Techniques for Distributed Generation*, **Electrical India**, Vol. 55, No. 2, February 2015, pp. 22-30.
152. AK Jain, SC Srivastava, **SN Singh**, Laxmi Srivastava, *Bacteria Foraging Optimization Based Bidding Strategy Under Transmission Congestion*, **IEEE Systems Journal**, Vol. 9., No. 1, March 2015, pp. 141-151.
153. Mahesk Kumar, SC Srivastava, **SN Singh** and M Ramamoorthy, *Development of a Control Strategy for Interconnection of Islanded DC Microgrids*, **IET Renewable Power Generation**, Vol. 9, No. 3, April 2015, pp. 186-194.
154. Mahesh Kumar, SC Srivastava, **SN Singh**, *Control Strategies of a DC Microgrid for Grid Connected and Islanded Operations*, **IEEE Trans on Smart Grid**, Vol 6, No. 4, July 2015, pp. 1599-1601.
155. Anup Shukla and **SN Singh**, *Unit Commitment Using Advanced Three-Stage Approach*, **Journal of Emerging Trends in Engineering and Applied Science**, Vol. 6, No. 7, July 2015, pp. 195-201.
156. D Panda, **SN Singh** and V Kumar, *Option Electricity Market Design Under UI Mechanism in India*, **Journal of Emerging Trends in Engineering and Applied Science**, Vol. 6, No. 7, July 2015, pp. 215-222.
157. Kanna Bhaskar, **SN Singh**, *Towards Reactive Power Dispatch within a Wind Farm using Hybrid PSO*, **International Journal of Electrical Power and Energy Systems**, Vol. 69, July 2015, pp 232–240.
158. Prerna Jain, Rohit Bhakar and **S N Singh**, *Influence of bidding mechanism and spot market characteristics on market power of a large GENCO using hybrid DE/BBO*, **Journal of Energy Engineering**, Vol.141, No. 3, September 2015, pp. 04014028 (1-13).
159. DD Sharma, **SN Singh**, *Aberration Detection in Electricity Consumption Using Clustering Technique*, **International Journal of Energy Sector Management**, Vol. 9, No. 4, October 2015, pp.451-470.

160. Bharat Singh Rajpurohit, **SN Singh**, *Performance Analysis of Unified Doubly-fed Induction Generator for Wind Power Application*, **Wind Engineering Journal**. Vol. 39, No. 5, October 2015, pp.533-548.
161. P Pavani and **SN Singh**, *Support Vector Machine based Transient Stability Identification in Distribution System with Distributed Generation*, **Electric Power Components & Systems Journal** Vol. 44, No. 1, January 2016, pp. 60-71.
162. Anup Shukla and **SN Singh**, *Advanced Three-Stage Pseudo-Inspired Weight-Improved Crazy Particle Swarm Optimization for Unit Commitment Problem*, **Energy Journal**, Vol. 96, February 2016, pp. 23-36.
163. Anup Shukla and **SN Singh**, *Clustering Based Unit Commitment with Wind Power Uncertainty*, **Energy Conversion & Management**, Vol.111, No. 1, March 2016, pp. 89–102
164. Anup Shukla and **SN Singh**, *Multi-Objective Unit Commitment With Renewable Energy Using Hybrid Approach*, **IET Renewable Power Generation**, Vol. 10, No.3, March 2016, pp. 327-338.
165. Anup Shukla and **SN Singh**, *Multi-objective Unit Commitment Using Search Space Based Crazy PSO and Normal Boundary Intersection Technique*, **IET Generation, Transmission and Distribution**, Vol. 10, No.5, April 2016, pp. 1222-1231.
166. **SN Singh**, *Adaptive Wavelet Neural Network Based Long –term Wind Power Forecasting*, **INAE Annals**, Vol. XIII, April 2016, pp.200-210.
167. R. K. Chauhan, B. S. Rajpurohit, **SN Singh** and F. M. Gonzalez-Longatt, *Intelligent Energy Management System for PV-Battery-based Microgrids in Future DC Homes*, **International Journal of Emerging Electric Power Systems**, Vol. 17, No. 2, April 2016, pp. 173-189.
168. Anup Shukla and **SN Singh**, *Multi-Objective Unit Commitment with Renewable Energy using GSA Algorithm*, **INAE Letters**, Vol. 1, No.1, July 2016, pp. 21-27.
169. DD Sharma and **SN Singh**, *Multi-Agent Based Distributed Control of Distributed Energy Storages Using Load Data*, **Journal of Energy Storage**, Vol. 5, 2016, pp 134-145.
170. Luis Conde-López, G Gutiérrez-Alcaraz and **SN Singh**, *Generating Adequacy Analysis of Mexico’s National Interconnected Power System*, **International Journal of Energy Sector Management**, Vol. 10, No.4, October 2016, pp.561-575.
171. VN Lal, and **SN Singh**, *Modified PSO Based MPPT Controller for Single-Stage Utility-Scale PV System with Reactive Power Injection Capability*, **IET Renewable Power Generation**, Vo. 10, No. 2, July 2016, pp. 899-907.
172. SK Jain, PK Jain and **SN Singh**, *A Fast Harmonic Phasor Measurement Method for Smart Grid Applications*, **IEEE Trans. on Smart Grid**, Vol. 8, No.1, January 2017, pp. 493-502.
173. Anup Shukla and **SN Singh**, *Pseudo-Inspired Chaotic Bat Algorithm for Economic Dispatch of Units with Valve-Point Loading Effects and Multi-Fuel Options*, **IET Generation, Transmission & Distribution**, Vol. 11, No.4, March 2017, pp. 1039-1045.

174. DD Sharma and **SN Singh**, *Identification and Characterization of Irregular Consumption of Load Data*, **Journal of Modern Power Systems and Clean Energy (MPCE)**, Vol. 5, No.3, May 2017, pp. 465-477.
175. DD Singh and **SN Singh**, *Agent-Based Distributed Control Schemes for Distributed Energy Storage Systems under Cyber Attacks*, **IEEE Journal on Emerging and Selected Topics in Circuits and Systems**, Vol. 7, No.2, June 2017, pp. 307-318.
176. VN Lal, **SN Singh**, *Control and Performance Analysis of a Single-Stage Utility-Scale Grid Connected PV system*, **IEEE Systems Journal**, Vol. 11, No. 3, September 2017, pp. 1601-1611.
177. Debsmita Panda, **S.N. Singh**, and Vimal Kumar, *Frequency Based Risk Assessment of a Power Producer in Indian Electricity Market*, **Journal of Emerging Electric Power Systems**, Vol. 18, No.5, October 2017.
178. Debsmita Panda, **SN Singh** and Vimal Kumar, *Optimal Portfolio Selection of GenCo under Congestion Risk in Multimarket Environment*", **Journal of Technology and Economics of Smart Grids and Sustainable Energy**, Vol. 2, No.1, December 2017, pp 12/1-11.
179. R. K. Chauhan, B. S. Rajpurohit, **SN Singh** and F. M. Gonzalez-Longatt, *Demand-Side Management System for Autonomous DC Microgrid for Building*, **Technology and Economics of Smart Grids and Sustainable Energy**, Vol. 2, No.4, December 2017.
180. SD Beigvand, H Abdi and **SN Singh**, *Stability Analysis in radial Distribution Grids*, **IET Generation Transmission & Distribution**, Vol. 11, No. 15, 2017, pp. 3722-3730.
181. Archana Sharma, Bharat Singh Rajpurohit, **SN Singh**, *A Review on Economics of Power Quality: Impact, Assessment and Mitigation*, **Renewable & Sustainable Energy Reviews** Vol 88, May 2018, pp. 363–372
182. Mahesh Kumar, S.C. Srivastava, **S.N. Singh**, and M. Ramamoorthy, *Development of a New Control Strategy Based on Two Revolving Field Theory for Single-Phase VCVSI Integrated to DC Microgrid*, **International Journal of Electrical Power and Energy Systems**, Vol. 98, No. 5, June 2018, pp. 290-306.
183. Sanjeev K. Mallik, **SN Singh** and Saikat Chakraborti, *An Educational Software for Enhancing Research in Power System State Estimation*, **Electric Power Components and Systems**, Vol. 46, No.7, July 2018, pp. 802-813.
184. Shweta Singh, A.N. Tiwari, and **S.N. Singh**, *Model Reference Adaptive System for Speed and Position Sensorless Control of PMSM*, **International Journal of Applied Engineering Research (IJAER)**, Vo. 13, No. 7, July 2018, pp 4725-4729.
185. Aasim, Abheejeet Mohapatra and **SN Singh**, *Repeated wavelet transform based ARIMA Model for very short-term wind speed forecasting*, **Renewable Energy**, Vol. 136, June 2019, pp. 758-768.
186. Priyanka Ganawar, **SN Singh** and Saikat Chakraborti, *Multi-objective Planning Model for Multi-phase Distribution System Under Uncertainty Considering Reconfiguration*, **IET Renewable Power Generation**, vol. 13, no. 12, pp. 2070-2083, August 2019.

187. Priyanka Ganawar, **SN Singh** and Saikat Chakraborti, *Network Reconfiguration for DG-Integrated Unbalanced Distribution Systems*, **IET Generation, Transmission and Distribution**, vol. 13, no. 17, pp. 3896-3909, September 2019.
188. Priyanka Ganawar, Aasim, **SN Singh** and Saikat Chakraborti, *Short-term Forecasting-based Network Reconfiguration for Unbalanced Distribution Systems with Distributed Generators*, **IEEE Trans. on Industrial Informatics**, Vol. 16, No.9, July 2020, pp. 4378 - 4389.
189. Shweta Singh, A.N. Tiwari, and **S.N. Singh**, *Performance Evaluation of MRAS and SMO based Sensorless PMSM Drives*, **World Journal of Engineering**, Vol. 17. No.3, March 2020, pp 347-355.
190. Shweta Singh, A.N. Tiwari and **S.N. Singh**, *Sensor-based and Sensorless Vector Control of Permanent Magnet Synchronous Motor Drives: A Comparative Study*, **Recent Advances in Electrical & Electronic Engineering**, Vol 13, No. 2, 2020, pp 276-284.
191. Chaman Lal Dewangan, **SN Singh** and Saikat Chakraborti, *Combining forecasts of day-ahead solar power Energy*, **Energy Journal**, Vol. 202, No.1, July 2020.
192. Sumit Tiwari, Prabhakar Tiwari and **SN Singh**, *Study to improve the efficiency of c-Si material in photovoltaic power plant*, **Material Today: Proceeding**, Vol. 25, no. 4, 2020, pp. 691-694.
193. Shweta Singh, A.N. Tiwari, and **SN Singh**, *Performance Analysis of Sensor-based and Sensorless Methods for PMSM Drive*, **Recent Advances in Electrical & Electronic Engineering**, Vol. 13, No. 3, 2020, pp 304-315.
194. A Narain, SK Srivastava and SN Singh, *Congestion management approaches in restructured power system: Key issues and challenges*, **The Electricity Journal**, Vol. 33, No. 3, April 2020.
195. Aniket Raj, Prabhakar Tiwari and **SN Singh**, *Moving towards Better Indian Electricity Grid Discipline (Part-I)*, **Electrical India**, Vol. 60, No.8, August 2020, pp. 24-27.
196. Aniket Raj, Prabhakar Tiwari and **SN Singh**, *Moving towards Better Indian Electricity Grid Discipline (Part-II)*, **Electrical India**, Vol. 60, No.9, September 2020, pp. 24-25.
197. Aniket Raj, Prabhakar Tiwari and **SN Singh**, *Moving towards Better Indian Electricity Grid Discipline (Part-III)*, **Electrical India**, Vol. 60, No.10, October 2020, pp. 38-41.
198. Sulabh Sachan, Sanchari Deb, SN Singh, *Different charging infrastructures along with smart charging strategies for electric vehicles*, **Sustainable Cities and Society**, Vol. 60, September 2020,
199. Puneet K Srivastava, AN Tiwari, **SN Singh**, *Performance Analysis of PMSG based Wind Energy Conversion System with Different LVRT Enhancement Methods*, **Recent Advances in Electrical & Electronic Engineering (Formerly Recent Patents on Electrical & Electronic Engineering)**, Volume 13, Number 4, 2020, pp. 470-485.
200. Puneet K Srivastava, AN Tiwari, SN Singh, *Impacts of Wind Energy Integration to the Utility Grid and Grid Codes: A Review*, **Recent Advances in Electrical & Electronic Engineering (Formerly Recent Patents on Electrical & Electronic Engineering)**, Volume 13, Number 4, 2020, pp. 446-469.

201. Shweta Singh, A.N. Tiwari, and **S.N. Singh**, *Speed and Position Estimation for Sensorless Control of PMSM: A Critical Review*, **Recent Advances in Electrical & Electronic Engineering**, Vol. 13, No. 6, 2020, pp 804-823.
202. Ankit yadav, **SN Singh** and SP Das, *Design of Internal Dynamics Based MMC Controller for HVDC Transmission*, **IET Energy Conversion and Economics** Vol. 1, No. 2, November 2020, pp. 93-103.
203. Vipin Das, Asheesh K Singh, P Karuppanan, Pradeep Kumar, **SN Singh**, and VG Agelidis, *Energy Management and Economic Analysis for Multiple Energy Storage System in Solar-PV/ PEMFC Hybrid Power System*, **IET Energy Conversion and Economics**, Vol. 1, No. 2, November 2020, pp. 124-140.
204. Aasim, Abheejeet Mohapatra and **SN Singh**, *Forecasting based energy management of flywheel energy storage system connected to a wind power plant*, **Journal of Renewable and Sustainable Energy**, Vol. 12, No. 6, November 2020.
205. Gaurva Khare, A Mohapatra and **SN Singh**, *A Real-Time Approach for Detection and Correction of False Data in PMU Measurements*, **Electric Power Systems Research**, Vol 191, February 2021.
206. Sanjeev K. Mallik, **SN Singh** and Saikat Chakrabarti, *Analysis of Ill-conditioning of Hybrid State Estimators in the Presence of PMU Measurements*, **IET Energy Conversion and Economics**, Vo. 2, No. 1, March 2021, pp. 35-44.
207. Puneet K Srivastava, AN Tiwari and **SN Singh**, *Phase-Lag Compensator based Approach for Realizing MPPT through PMSG based Wind Turbine Generator*, **International Journal of Mathematical, Engineering and Management Sciences**, Vol. 6, No.2, April 2021, pp 584-597.
208. Samarendra Pratap Singh, P.P. Singh, **S.N. Singh**, Prabhakar Tiwari, *State of charge and health estimation of batteries for electric vehicles applications: key issues and challenges*, **Global Energy Interconnection**, Vol. 4, No.2, April 2021, pp. 145-157.
209. A Narain, SK Srivastava, SN Singh, *A Novel Sensitive Based Approach to ATC Enhancement in Wind Power Integrated Transmission System*, **SN Applied Sciences**, Vol. 3, No. 5, 563, April 2021.
210. Akhilesh K Gupta, Abheejeet Mohapatra and **SN Singh**, *Measurement Based Parameters Estimation of Large-Scale Wind Farm Dynamic Equivalent model*, **Renewable Energy**, Vol. 168, May 2021, pp. 1388-1398.
211. Sulabh Sachan, Sanchari Deb, **SN Singh**, Praveen P Singh and DD Sharma, *Planning and Operation of EV Charging Stations by Chicken Swarm Optimization Driven Heuristics*, **IET Energy Conversion and Economics**, Vol.2, No.2, June 2021, pp. 91-99.
212. A Narain, SK Srivastava and SN Singh, *Impact of Wind Power Generation on ATC Calculation with Uncertain Equal Load* **Electrical Engineering**, **Journal of Electrical Engineering**, January 2021.
213. Avinash Kumar, Abheejeet Mohapatra, **SN Singh**, *Sequence Measurement Based Islanding Detection of DGs in Microgrid with Enhanced Power Quality*, **IEEE Trans on Instrumentation and Measurement**, Vol. 70, 2021, pp 1-11.

214. KK Tomar, **SN Singh**, *Level-one house agent-based decentralized resilient energy management*, **Journal of Electrical Engineering**, 2021.
215. Vineet, A Mohapatra and **SN Singh**, *Demand Response with Volt/Var Optimization for Unbalanced Active Distribution Systems*, **Applied Energy**, Vol. 300, October 2021, pp 1-14, Article No. 117361.
216. Aasim, Abheejeet Mohapatra and **SN Singh**, *Data driven day-ahead electrical load forecasting through repeated wavelet transform assisted SVM model*, **Applied Soft Computing Journal**, Vol. 111, November 2021, pp 1-11, Article No. 107730.
217. Avinash Kumar, Abheejeet Mohapatra, **SN Singh**, *Mode of Oscillation Based Islanding Detection of Inverter Interfaced DG Using ESPRIT*, **Electric Power Systems Research**, Vol. 200, November 2021, pp 1-9, Article No. 107479.
218. A Narain, SK Srivastava and SN Singh, *An ATCDF Approach for ATC Enhancement Using Charging/Discharging of Wind-Battery System Considering Wind Direction and Wake Effect of WTs*, **International Transactions on Electrical Energy Systems**, Vol. 31, No. 11, November 2021, pp1-18, E13086.
219. Gaurav Khare, A Mohapatra and **SN Singh**, *Strategic PMU Placement to Alleviate Power System Vulnerability against Cyber Attacks*, **IET Energy Conversion and Economics**, Vol. 2, No. 4, December 2021, pp.212-220.
220. Ankit K Srivastava, AN Tiwari, **SN Singh**, *Harmonic/Interharmonic Estimation using Standard Deviation Assisted ESPRIT Method*, **COMPEL: The international Journal for Computation and Mathematics in Electrical and Electronic Engineering**, Vol. 40, No. 6, December 2021, pp 1067-1083.
221. Chaman Lal Dewangan, **SN Singh** and Saikat Chakraborti, *A Fair Incentive Scheme for Participation of Smart Inverters in Voltage Control*, **IEEE Trans on Industrial Informatics**, Vol. 18, No. 1, January 2022, pp. 656-665.
222. Avinash Kumar, Abheejeet Mohapatra, **SN Singh**, *Phaselet Based Limited-Time q Axis DC Offset Voltage Injection for Detection of Islanding of DG and Fault in Meshed Microgrid*, **IEEE System Journal**, Vol. 16, No.1, March 2022, pp.1379-1390.
223. Soumyabrata Das, Padmanabh Thakur, Asheesh K. Singh and **S. N. Singh**, *Optimal management of vehicle to grid and grid to vehicle strategies for load profile improvement in the distribution system*, **Journal of Energy Storage**, Vol. 49, May 2022, pp 104068.
224. Vineet, A Mohapatra and **SN Singh**, *A Topology Assisted Optimal CVR Strategy for Unbalanced EDNs having Spatio-Temporal Loads*, **IEEE Trans on Industrial Applications**, Vol 58, No. 3, pp 3313-3323, May/June 2022.
225. Priyanka Gangawar, S Kerwani, Saikact Chatrborti, **SN Singh**, *Multi-objective Multi-scenario Framework for RCS Placement in Unbalanced Distribution Systems Considering Uncertainty*, **IEEE System Journal**, Vol. 16, No.2, June 2022, pp.2811-2821.
226. Akhilesh K Gupta, Abheejeet Mohapatra and **SN Singh**, *A Multi-Machine Equivalent Model of a Wind Farm Considering LVRT Characteristic and Wake Effect*, **IEEE Trans on Sustainable Energy**, Vol. 13, No.3, July 2022, pp.1396-1407.

227. Ankur Srivastava, Saikat Chakrabarti, Joao Soares, **Sri Niwas Singh**, *An Optimization-Based Topology Error Detection Method for Power System State Estimation*, **Electric Power Systems Research**, Vol 209, August 2022, 107914.
228. Ankit Yadav, SN Singh and SP Das, *Suppression of third-order harmonic current in transformerless MMC*, **IET Energy Conversion and Economics**, Vol. 3, No. 4, August 2022, pp. 244-257.
229. Chaman Lal Dewangan, Kamini Singh, **SN Singh** and Saikat Chakraborti, *Peak-to-average ratio incentive scheme to tackle the peak-rebound challenge in TOU pricing*, **Electric Power System Research**, Vol 210, September 2022, No. 108048.
230. Sourabh Ghosh, Navneet Kumar Singh, Asheesh Kumar Singh, and Sri Niwas Singh, *Digital Twin for Electric Energy Systems: A New Era of Digitization*, **IEEE Smart Grid Magazine**, October 2022.
231. Avinash Kumar, Abheejeet Mohapatra, **SN Singh** and Raskesh K Panda, *Space Vector Rotation Based Controlled Decaying Current Injection for Islanding Detection of Inverter-Interfaced DG*, **IEEE Trans on Smart Grid**, Vol. 13, No. 6, Nov. 2022, pp. 4638-4650.
232. Gaurva Khare, A Mohapatra and **SN Singh**, *State Vulnerability Assessment against False Data Injection Attacks in AC State Estimator*, **IET Energy Conversion and Economics**, 2022, pp.1-14.
233. Monika Sharma, Bharat S Rajpurohit, Samar and **SN Singh**, *Data Analytics Based Power Quality Investigations in Emerging Electric Power System Using Sparse Decomposition*, **IEEE Trans on Power Delivery**, Vol 37. No. 6, Dec 2022, pp. 4838-4847.
234. Ankit K Srivastava, AN Tiwari, **SN Singh**, Praveen P Singh, *Harmonic/Inter-harmonics Detection using Modified Exact Model Order based ESPRIT*, **International Journal of Power Electronics**, Vol. 17, No. 2, January 2023, pp 218-233.
235. A Narain, SK Srivastava and **SN Singh**, *The impact of wind direction on wind farm power output calculation considering the wake effects of wind turbines*, **Wind Engineering**, Vol 47, No. 1, Feb 2023, pp. 74-85.
236. Sourabh Ghosh, Asheesh K Singh, Rambit Singh, Rakesh Maurya, SN Singh and Guangya Yang, *Intelligent Control of Integrated On-board Charger with Improved Power Quality and Reduced Charging Transients*, **ISA Transactions (Accepted)**.
237. Vineet, A Mohapatra and **SN Singh**, *A Blended Approach to Improve Reliability and Efficiency of an Active EDN via Dynamic Feeder Reconfiguration, Demand Response, and VVO*, **IEEE Transactions on Automation Science and Engineering (Accepted)**.
238. Atul Soni, Avinash Kumar, R Panda, Abheejeet Mohapatra and SN Singh, *Adaptive Coordination of Relays in AC Microgrid considering Operational and Topological Changes*, **IEEE Systems Journal (Accepted)**.
239. Vineet, A Mohapatra and **SN Singh**, *An Efficient Modular Optimization Scheme for Unbalanced Active Distribution Networks with uncertain EV and PV Penetrations*, **IEEE Transactions on Smart Grid (Accepted)**.

240. Ankit Yadav, **SN Singh** and SP Das, *Symmetrical Multi-pole MMC-HVDC with DC Fault Ride Through Capability using HBSM*, **Electric Power Components and Systems**, Vol 51, No.10, March 2023, pp. 991-1008.
241. Ankit K Srivastava, AN Tiwari, **SN Singh**, *Harmonic and Interharmonic Estimation using Poincaré Filtering Assisted ESPRIT Method*, **IEEE Transactions on Industry Application (Accepted)**.

Conference/Seminar Papers:

(a) International

242. **SN Singh**, A Chandramouli, PK Kalra, SC Srivastava and DK Mishra, *Optimal Reactive Power Dispatch Using Genetic Algorithms*, **Proc. of IEEE sponsored Third International Symposium of Electricity Distribution and Energy Management (ISEDEM'93)**, Singapore, October 27-29, 1993, pp. 484-489.
243. **SN Singh**, SC Srivastava, PK Kalra and MV Rao, *Voltage and Reactive Power Distribution Factors for Line, Transformer & Generator Outage Studies*, **Proc. of IEEE sponsored International Conference on Advances in Power System Control, Operation and Management**, Hong-Kong Dec7-10, 1993, pp. 794-800.
244. **SN Singh**, Sachchidanand, GK Dubey and KS Verma, *State Space Representation of a Pulse Width Modulated GTO Converter for Dynamic Simulation*, **Proc. of International Conference on Power System Technology (ICPST'94)**, Beijing, China, Oct.1994, pp. 979-983.
245. **SN Singh** and SC Srivastava, *Corrective Action Planning to Achieve Optimal Load Flow Solution*, **Proc. of the International Power Engineering Conference (IPEC)**, Singapore, 27 Feb - 1 March 1995, pp. 280-284.
246. SC Srivastava, **SN Singh** and AK Mitra, *Reactive Power Planning for Secure Operation of Power System*, **Proc. of International Conference on Water and Energy 2001 in 60th Diamond jubilee R & D session of CBIP**, New Delhi, 9-12 October 1995, pp. 23-32. This paper received **Certificate of Merit Award**.
247. **SN Singh** and AS Pandey, *Assessment of Power System Performance at Under-Rated Voltage Operation of Generators*, **Proc. of 2nd International R & D Conference of C.B.I.P.** New Delhi, 21-24 Oct 1997, Baroda, Vol. I, pp. 155-160.
248. AS Pandey, RP Pyasi and **SN Singh**, *Electric Power Generation from Refuse*, Proc. of 2nd **International R & D Conference of C.B.I.P.** New Delhi, 21-24 Oct 1997, Baroda, Vol.II, pp. 24-31.
249. V Pant, GK Singh and **SN Singh**, *Modeling of a Multi-Phase Induction Machine Under Fault Condition*, **Proc. of the third International Conference on Power Electronics and Drive Systems**, Hong Kong, 26-29 July 1999, pp. 92-97.
250. **SN Singh** and AK David, *Dynamic Security Constrained Congestion Management in Competitive Electricity Market*, **Proc. IEEE PES 2000 Winter Meeting**, January 23-26, 2000, Singapore, Vol.3, pp. 1808-1813.

251. **SN Singh** and AK David, *Dynamic Security Constrained Pool Dispatch in Open Power Market*, **VII Symposium of Specialists in Electric Operational and Expansion Planning (VIIEPOPE)**, May 23-28, 2000, Brazil.
252. AK David, **SN Singh** and FS Wen, *Power System Restructuring: International Experiences*, **Workshop for China Light & Power, Hong Kong**, May 8, 1999, Hong Kong.
253. **SN Singh** and AK David, *Electricity Supply Industry Restructuring: International Experiences*, **3rd International R&D Conference of CBIP New Delhi (India)**, 29 February- 3 March 2000, Jabalpur, India, pp. 477-488.
254. **SN Singh** and AK David, *Congestion Management by Optimising FACTS Device Location*, **International Conference on Electric Utility Deregulation and Restructuring, and Power Technologies 2000 (DPRT 2000)** 4-7 April 2000, City University, UK, pp. 23-28.
255. **SN Singh** and AK David, *Placement of FACTS Devices in Open Power Market*, **Proceedings of the 5th International Conference on Advances in Power System Control, Operation and Management (APSCOM 2000)**, Hong Kong, 29 October-1 November 2000, pp. 173-177.
256. KS Verma, **SN Singh** and HO Gupta, *FACTS Device location for enhancement of total transfer capability*, **IEEE Winter Meeting, Ohio, USA**, January 28- February 1, 2001, Vol 2, pp. 522-527.
257. KG Upadhyay, **SN Singh**, DS Chuahan and GS Srivastava, *Electricity Utility Restructuring Models for Indian Power Systems*, **5th International Power Engineering Conference (IPEC2001) Singapore**, May 17-19, 2001, pp. 575-580.
258. KG Upadhyay, **SN Singh**, DS Chuahan and GS Srivastava, *Assessment of OLTC Transformer Tap on Reactive Power Pricing in Competitive Power Market*, **5th International Power Engineering Conference (IPEC2001) Singapore**, May 17-19, 2001, pp. 586-591.
259. **SN Singh**, KS Verma and HO Gupta, *Optimal Power Flow Control in Open Power Market Using Unified Power Flow Controller*, **IEEE PES Summer meeting, Vancouver**, Canada during July 15-19, 2001, Vol.3, pp 1698-1703.
260. **SN Singh**, *Location of FACTS Devices for Enhancing Power Systems' Security*, **The 2001 Large Engineering Systems Conference on Electric Power Engineering (LESCOPE)**, Halifax, Nova Scotia, Canada, July 11-13, 2001, pp. 162-166.
261. P Nampetch, **SN Singh** and C Surapong, *Modeling of UPFC and Its Parameters Selection*, **4th IEEE International Conference on Power Electronics and Drive Systems (PEDS01)**, Bali, Indonesia, October 22-25, 2001, pp. 77-83.
262. KS Verma, HO Gupta and **SN Singh**, *Power Flow Control Using UPFC in Open Power Market*, **CIGRE Regional Meeting 2001- International Conference on Bulk Power Transmission Integration in Developing Countries**, November 8-10, 2001, New Delhi, India, pp. IV: 12-18.
263. KS Verma, **SN Singh** and HO Gupta, *Location of UPFC for Enhancing Power Systems' Security in Deregulated Environment*, **International Conference on Energy**

- Automation and Information Technology**, December 10-12 2001, IIT Kharagpur, India, pp. 149-154.
264. KG Upadhyay, **SN Singh**, DS Chuahan and GS Srivastava, *Wheeling Rates and Pricing Mechanism: An overview and Key Issues*, **International Conference on Computer Applications in Electrical Engineering (CERA01) University of Roorkee, India**, February 21-23, 2002, pp. 133-144.
 265. KS Verma, **SN Singh** and HO Gupta, *Role of FACTS devices in open Power Market: An Overview and Key Issues*, **International Conference on Computer Applications in Electrical Engineering (CERA01) University of Roorkee, India**, February 21-23, 2002, pp. 122-132.
 266. KS Verma, HO Gupta and **SN Singh**, *Technical Challenges in Computing Available Transfer Capability under Open Access*, **International Conference on Computer Applications in Electrical Engineering (CERA01) University of Roorkee, India**, February 21-23, 2002, pp.166-174.
 267. Ashwani Kumar, SC Srivastava and **SN Singh**, *Power Flow Tracing Based Congestion Management in Deregulated Market*, **International Conference on Power Transmission and Convergence organized by Power Utility**, December 4-6, 2002.
 268. Ashwani Kumar, SC Srivastava and **SN Singh**, *A Zonal Congestion Management Approach and Impact of Phase Angle Regulators*, **ISAP03 Greece**, 31st August- 3rd September 2003.
 269. T Jain, L Srivastava and **SN Singh**, *Fast Voltage Estimation Using Parallel Radial Basis Function Neural Network*, **International Conference on Electric Supply Industry in Transition: Issues and Prospect for Asia**, during 14-16 January 2004, AIT Bangkok, pp. 8-10:8-18.
 270. 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 Conference on Electric Supply Industry in Transition: Issues and Prospect for Asia**, during 14-16 January 2004, AIT Bangkok, pp. 2-20:2-34.
 271. T. Jain, L. Srivastava and **SN Singh**, *Parallel Radial Basis Function Neural Network Based Fast Voltage Estimation for Contingency Analysis*, **International Conference on Electric Utility Deregulation and Restructuring and Power Technologies**, Hong Kong during 5-8 April 2004, pp.780-784.
 272. **SN Singh** and SC Srivastava, “*Electric Power Industry Restructuring in India: Present Scenario and Future Prospects*”, **International Conference on Electric Utility Deregulation and Restructuring and Power Technologies**, Hong Kong during 5-8 April 2004, pp.20-23.
 273. Ashwani Kumar, Sanjoy Parida, SC Srivastava and **SN Singh**, *Enhancement of Power System Loadability with Optimal Location of TCPAR in Competitive Electricity Markets Using MILP*, **International Conference on Power Systems during Nov 3-5, 2004 in Kathmandu, Nepal**, pp. 705-710.
 274. OP Dwivedi, JG Singh and **SN Singh**, *Power Flow Control using Multi-converter FACTS Controllers*, **International Conference on Power Systems during Nov 3-5, 2004 in Kathmandu, Nepal**, pp. 711-718.

275. SK Srivastava, KG Upadhyay and **SN Singh**, *Analysis of Different Operating Constraints of Generalized Unified Power Flow Controller*, **International Conference on Power Systems during Nov 3-5, 2004 in Kathmandu, Nepal**, pp. 308-313.
276. UD Dwivedi and **SN Singh**, *Power Quality Assessment Using Polynomial Approximation Technique*, **International Conference on Power Systems during Nov 3-5, 2004 in Kathmandu, Nepal**, pp. 348-353.
277. Prabodh Bajpai and **SN Singh**, *Electricity Trading in Competitive Power Market: An Overview and Key Issues*, **International Conference on Power Systems during Nov 3-5, 2004 in Kathmandu, Nepal**, pp. 571-576.
278. B Kalyan Kumar, **SN Singh** and SC Srivastava, *Coordination of Power System Stabilizer, FACTS and HVDC Controllers for Damping Oscillations in a Multi-Machine System*, **International Conference on Power Systems during Nov 3-5, 2004 in Kathmandu, Nepal**, pp. 421-426.
279. S Yamagar, G Nanda, SC Srivastava, **SN Singh**, P Gupta, D Paul and RM Shrestha, *Implication of Corban Tax on Generation Expansion Plan & GHG Mitigation: A Case study on Indian Power Sector*, **International Conference on Power System during Nov 3-5, 2004 in Kathmandu, Nepal**, pp. 530-535.
280. S Yamagar, G Nanda, SC Srivastava, **SN Singh**, P Gupta, D Paul and RM Shrestha, *Implication of Energy Tax on Generation Expansion Plan & GHG Mitigation: A Case study on Indian Power Sector*, **International Conference on Power System Technology (POWERCON04), 21-24 November 2004, Singapore**, Vol. 2, pp. 1734 – 1739.
281. J Krishna, L Srivastava, M Pandit and **SN Singh**, *On-Line Load Flow Analysis Using Radial Basis Neural Network*, **6th International Conference on Cognitive Systems (ICCS-2004)** during December 14-15, 2004 at New Delhi.
282. S. Sharma, L Srivastava, M. Pandit and **SN Singh**, *Identification and Determination of Line Overloading Using Artificial Neural Network*, **IEE Sponsored International Conference on Energy, Information Technology & Power Sector (PEITSICON-2005)**, 28-29 January 2005, Kolkata, pp. A13-A17.
283. B. Kalyan Kumar, **SN Singh** and SC Srivastava, *A Modal Controllability Index for Optimal Placement of TCSC to Damp Inter-Area Oscillations*, **IEEE PES General Meeting 2005 June 12-16 2005 in San Francisco, California**, pp. 1653 – 1657.
284. T Jain, L Srivastava, **SN Singh** and I Erlich, *Novel Parallel Radial Basis Function Neural Network for Voltage Security Analysis*, **ISAP05, Washington, USA**, November 2005, pp. 320-326.
285. **SN Singh** and I Erlich, *Locating Unified Power Flow Controller for Enhancing Power System Loadability*, **International Conference on Future Power System, Netherlands** during November 16-18, 2005, pp 1-5.
286. P Bajpai and **SN Singh**, *Price Area Congestion Management Approach for Restructured Indian Power Market*, **International Conference on Power System, CRPI Bangalore**, Dec 20-22, 2005.
287. SK Parida, **SN Singh** and SC Srivastava, *Optimal Power Flow Control with TCPAR and UPFC in Competitive Electricity Market*, **International Conference on Power System**

- Operation in Deregulated Regime (ICPSODR-2006), IT BHU, India, March 6-7, 2006, pp. 68-76.**
288. SK Parida, **SN Singh** and SC Srivastava, *Voltage Security Constrained Localized Reactive Power Market*, **IEEE Power India Conference Delhi**, April 10-12, 2006.
 289. UK Dwivedi and **SN Singh**, *A Robust Energy Features Estimation for Detection and Classification of Power Quality Disturbances*, **IEEE Power India Conference Delhi**, April 10-12, 2006.
 290. JG Singh, **SN Singh** and SC Srivastava, *Placement of FACTS Controllers for Enhancing Power Systems' Loadability*, **IEEE Power India Conference Delhi**, April 10-12, 2006.
 291. Ashwani Kumar, SC Srivastava and **SN Singh**, *Congestion Clusters Based Congestion Management Using DC Load Flow Approach*, **International Conference on Energy, Efficiency and Environment, UPTU Lucknow**, June 10-11, 2006, pp. 164-178.
 292. Bindeshwar Singh, **SN Singh**, KG Upadhyay, DK Nishad, NK Sharma and AN Tiwari, *Modeling of UPFC in Multi-Machine Power Systems: An Overview*, **International Conference on Energy, Efficiency and Environment, UPTU Lucknow**, June 10-11, 2006, pp. 319-329.
 293. R Singh, L Srivastava, M Pandit and **SN Singh**, *Real Power Contingency Selection And Ranking Using Hybrid Neural Network*, **International Conference on Energy, Efficiency and Environment, UPTU Lucknow**, June 10-11, 2006, pp. 422-430.
 294. SP Panda, **SN Singh**, and B Kalyan Kumar, *Power System Stabilizer Tuning in Nuclear Power Station: A Case Study of India*, **International Conference on Energy, Efficiency and Environment, UPTU Lucknow**, June 10-11, 2006, pp. 390-401.
 295. **SN Singh** and I Erlich, *Wind Power Trading Options in Competitive Electricity Market*, **IEEE PES General Meeting 2006 June 18-22**, 2006 Montreal Canada. (**Panel Paper**)
 296. Ashwani Kumar, **SN Singh** and LL Lai, *Impact of TCPAR on Congestion Clusters and Congestion Management Using MINLP*, **IEEE PES General Meeting 2006**, June 18-22, 2006 Montreal, Canada.
 297. P Bajpai and **SN Singh**, *An Electric Power Trading Model for Indian Electricity Market*, **IEEE PES General Meeting 2006**, June 18-22, 2006 Montreal Canada.
 298. S. N. Singh and Demetrios P. Papadopoulos, *Integration of Wind Energy in Competitive Electricity Markets*, **17th International Conference on Electrical Machines, Chania, Crete Island, Greece**, September 2-5, 2006
 299. B Kalyan Kumar, **SN Singh**, and SC Srivastava, *A decentralized nonlinear feedback controller for SVC with prescribed degree of stability for damping power system oscillations*, **7th IEE International Conference on Advances in Power System Control, Operation and Management (APSCOM 2006), Hong Kong**, 30 October-2 November 2006.
 300. SK Parida, **SN Singh** and SC Srivastava, *Reactive Market Power Analysis Using Herfindahl-Hirschman Index*, **7th IEE International Conference on Advances in Power System Control, Operation and Management (APSCOM 2006), Hong Kong**, 30 October - 2 November 2006.

301. Umakant Dhar Dwivedi and **SN Singh**, *An Adaptive Window-Based Denoising Scheme to Enhance Power Quality Monitoring Systems*, **7th IEE International Conference on Advances in Power System Control, Operation and Management (APSCOM 2006)**, Hong Kong, 30 October - 2 November 2006.
302. KG Upadhyay, MM Tripathi and **SN Singh**, *An Approach to Short Term Load Forecasting Using Market Price*, **National 19th International Conference on Electricity Distribution (CIRED07)**, Vienna, 21-24 May 2007.
303. Umakant Dhar Dwivedi, **SN Singh** and SC Srivastava, *Analysis of Transient Disturbances in Distribution Systems: A Hybrid Approach*, **IEEE General Meeting 2007, June 22-24, 2007, Florida, USA (Panel Paper)**.
304. Trapti Jain, **SN Singh** and SC Srivastava, *A Neural Network Based Method For Fast ATC Estimation in Electricity Markets*, **IEEE General Meeting 2007, June 22-24, 2007, Florida, USA**
305. JG Singh, **SN Singh** and SC Srivastava, *Enhancement of Power System Security through Optimal Placement of TCSC and UPFC*, **IEEE General Meeting 2007, June 22-24, 2007, Florida, USA**.
306. M. Wilch, V. S. Pappala, S. N. Singh and I. Erlich, *Reactive Power Generation by DFIG Based Wind Farms with AC Grid Connection*, **Power Tech 2007, 1- 5 July 2007, Lausanne, Switzerland**, pp. 626 - 632.
307. Bharat Singh Rajpurohit and **SN Singh**, *Performance Evaluation of Current Control Algorithms Used for Active Power Filters*, **International Conference on "Computer as a Tool" (EUROCON 2007)**, Warsaw, Poland, September 9-12, 2007, pp. 2570-2575.
308. **SN Singh** and I Erlich, *Particle Swarm Based Optimal Estimation of Block Incremental Cost Curve*, **14th International Conference on Intelligent System Applications to Power Systems (ISAP07)**, 5 – 8 November, 2007 , Kaohsiung, Taiwan, pp. 257-263.
309. V. S. Pappala, M. Wilch, I. Erlich, and S. N. Singh, *Reactive Power Management Using Adaptive PSO in Grid Connected Offshore Wind Farms*, **14th International Conference on Intelligent System Applications to Power Systems (ISAP07)**, 5 – 8 November, 2007, Kaohsiung, Taiwan, pp. 63-70. **(Best Paper Award)**.
310. JG Singh, **SN Singh** and SC Srivastava, *Reactive Power Spot Price Based Optimal SVC Placement Considering Opportunity Cost*, **2nd International Conference on Power Systems (ICPS2007)**, CPRI Bangalore, 12-14 December 2007.
311. Deepti Shakya and **SN Singh**, *Feature Extraction Using Park's Transformation and Optimal TFR technique for Fault Identification*, **2nd International Conference on Power Systems (ICPS2007)**, CPRI Bangalore, 12-14 December 2007.
312. BS Rajpurohit and **SN Singh**, *Modeling of Wind Turbines for Power System Studies: Key Issues*, **2nd International Conference on Power Systems (ICPS2007)**, CPRI Bangalore, 12-14 December 2007.
313. NM Pindoriya, SK Singh and **SN Singh**, *Energy Price Forecasting in Electricity Markets: An Overview and Key Issues*, **2nd International Conference on Power Systems (ICPS2007)**, CPRI Bangalore, 12-14 December 2007.

314. BS Rajpurohit and **SN Singh**, *Power Electronic Systems Used in Wind Power Generation : Recent Trends and Future Challenges*, **International Conference on Power System Analysis, Control and Optimization**, March 13-15, 2008, Andhra University, Visakhapattanam, pp.226-233.
315. Guozhong Liu, Fushuan Wen, **SN Singh**, *A Frequency-Duration Time (FD) and Monte Carlo Based Hybrid Approach for the Evaluation of Nodal Price and Nodal Reliability Indices*, **DRPT 2008 IEEE International Conference**, April 06-09 2008 in Nanjing, Jiangsu, China.
316. P Bajpai and **SN Singh**, *Impact of Transmission Constraints on Supply-Side Bidding Strategy Using BLP Approach*, **IEEE General Meeting, Pittsburgh, USA** July 24-28, 2008.
317. Bharat Singh, V Emmoji and **SN Singh**, *Performance Evaluation of Series and Parallel Connected Grid Side Converters of DFIG*, **IEEE General Meeting, Pittsburg, USA**, July24-28, 2008.
318. N.M. Pindoriya, **SN Singh** and SK Singh, *Forecasting the Day-Ahead Spinning Reserve Requirement in Competitive Electricity Market*, **IEEE General Meeting, Pittsburgh, USA**, July24-28, 2008.
319. Deepti Shakya and **SN Singh**, *SVM Based Fault Location and Classification Using Fuzzy Classifier for PQ Monitoring*, **IEEE General Meeting, Pittsburgh, USA**, July24-28, 2008.
320. Bharat Singh, **SN Singh**, Demetrios P. Papadopoulos and Panagiotis A. Katsigiannis, *Grid Code Requirements for Wind Power Interconnection into Power System ” MedPower’08 – 6th Mediterranean Conference and Exhibition on Power Generation, Transmission and Distribution Macedonia Palace, Thessaloniki, Greece* November 2 – 5 2008.
321. BS Rapurohit, V. Emmoji, **SN Singh** and I Erlich, *Performance Evaluation of New Series Connected Grid-Side Converter of Doubly-Fed Induction Generator*, **IEEE Powercon 2008, New Delhi**, October 12-15, 2008.
322. SK Parida, **SN Singh**, SC Srivastava, P Chanda and AK Shukla, *Pros and Cons of Existing Frequency Regulation Mechanism in Indian Power Industry*, **IEEE Powercon 2008, New Delhi**, October 12-15, 2008.
323. VS Pappala, I Erlich and **SN Singh**, *Unit Commitment under Wind Power and Demand Uncertainties*, **IEEE Powercon 2008, New Delhi**, October 12-15, 2008.
324. Hui Yang, Fushuan Wen, Liping Wang, and **SN Singh**, *New Newton-downhill algorithm for distribution power flow analysis*, **Proceedings of 2008 IEEE 2nd International Power & Energy Conference (PECon08)**, Dec. 1-3, 2008, Johor Bahru, Malaysia.
325. N. Amuthan and **SN Singh**, *Direct Model Reference Adaptive Internal Model Controller using Perrin equation Adjustment Mechanism for DFIG Wind Farms*, **IEEE Region 10 and the Third international Conference on Industrial and Information Systems**, 2008, (ICIIS 2008), 8-10 Dec. 2008, IIT Kharagpur.

326. Umakant Dhar Dwivedi, **SN Singh** and SC Srivastava, *A Wavelet Based Approach for Classification and Location of Faults in Distribution Systems*, **INDICON 2008, IIT Kanpur**, 11-13, Dec 2008.
327. MM Tripathi, KG Upadhyay and **SN Singh**, *Price Forecasting In Competitive Electricity Markets: An Analysis*, **International Conference on Energy Engineering – ICEE2009, Puducherry**, January 7-9, 2009.
328. Seethalekshmi K, **SN Singh** and SC Srivastava, *Adaptive Distance Relaying Scheme in Presence of UPFC Using WAMS*, **IEEE Power Systems Conference and Exposition (PSCE09)**, March 15-18, 2009, USA.
329. Minghui Chen, Xiangzhen He, Fushuan Wen and **SN Singh**, *Update and Analysis of Economic Current Density of Low-voltage Copper Cables*, **First International Conference on Sustainable Power Generation and Supply (SUPERGEN), Nanjing, China**, April 6-7, 2009.
330. BS Rapurohit, **SN Singh** and J. Østergaard, *Renewable Energy Generation in India: Present Scenario and Future Prospects*, **IEEE General Meeting**, July 24-28, 2009, Calgary, Canada.
331. Naran M. Pindoriya and **SN Singh**, *MOPSO based Day-Ahead Optimal Self-Scheduling of Generators under Electricity Price Forecast Uncertainty*, **IEEE General Meeting**, July 24-28, 2009, Calgary, Canada (**Panel Paper**).
332. Ranjana Sodi, SC Srivastava and **SN Singh**, *An Improved Phasor Assisted State Estimation*, **IEEE General Meeting**, July 24-28, 2009, Calgary, Canada.
333. Ranjana Sodi, SC Srivastava and **SN Singh**, *Optimal PMU Placement to Ensure System Observability under Contingencies*, **IEEE General Meeting**, July 24-28, 2009, Calgary, Canada.
334. Seethalekshmi K, **SN Singh** and SC Srivastava, *WAMS Assisted Frequency and Voltage Stability Based Load Shedding Scheme*, **IEEE General Meeting**, July 24-28, 2009, Calgary, Canada.
335. N. M. Pindoriya, S. N. Singh and J. Østergaard, *Hybrid Particle Swarm Optimization based Day-Ahead Self-Scheduling for Thermal Generator in Competitive Electricity Market*, **ISAP09, Brazil**, November 8-12, 2009.
336. Bharat Singh, S. N. Singh and Elias Kyriakides, *Computational Intelligence Based Control of DFIG used for Wind Turbines*, **NWPC 2009**, September 10-11, Bornholm, Denmark.
337. **SN Singh**, J Østergaard and J. Yadagiri, *Application of Advanced Particle Swarm Optimization Techniques to Wind-thermal*, **ISAP2009 Brazil**, November 8-12, 2009.
338. Naran M. Pindoriya and **SN Singh**, *One-Step-Ahead Hourly Load Forecasting Using Artificial Neural Network*, **ICPS 2009, IIT Kharagpur**, December 27-30, 2009.
339. P Tripathy, SC Srivastava and **SN Singh**, *An Improved Prony Method for Identifying Low frequency Oscillations using Synchro-Phasor Measurements*, **ICPS 2009, IIT Kharagpur**, December 27-30, 2009.

340. Naran M Pindoriya, **SN Singh** and SK Singh, *Optimal Generation Portfolio Allocation in Competitive Electricity Markets*, **INDICON09, Ahmadabad, India**, December 18-20, 2009.
341. Seethalekshmi K., **SN Singh** and SC Srivastava, *SVM based Scheme to Prevent Distance Relay Mal-operation under Power Swing and Voltage Instability*, **Georgia Tech Protective relaying conference**, May 5-7, 2010, Atlanta, Georgia, USA (**2010 Clayton Griffin Student Award**)
342. **SN Singh** and Jacob Østergaard, *Use of Demand Response in Electricity Markets: An Overview and Key Issues*, **International Conference on the European Energy Markets (EEM10)**, June 23-25, 2010, Madrid, Spain.
343. Arsad Saleem, Morten Lind and **SN Singh**, *Modeling Control Situations in Power System Operations*, **International Conference on Autonomous and Intelligent Systems (AIS 2010)** June 21-23, 2010, Povia de Varzim, Portugal.
344. Seethalekshmi K, **SN Singh** and SC Srivastava, *SVM Based Power Swing Identification Scheme for Distance Relays*, **IEEE General Meeting Minneapolis, USA**, July 25-29, 2010.
345. Naran M Pindoriya, **SN Singh** and Kwang Y Lee, *A Comprehensive Survey on Multi-objective Evolutionary Optimization in Power System Applications*, **IEEE General Meeting Minneapolis, USA**, July 25-29, 2010 (**Panel Paper**).
346. **SN Singh**, Jacob Østergaard, Bharat Singh, *Reactive Power Capability of Unified DFIG for Wind Power Generation*, **IEEE General Meeting Minneapolis, USA**, July 25-29, 2010 (**Panel Paper**).
347. Bharat Singh, Elias Kyriakides and **SN Singh**, *Intelligent Control of Grid Connected Unified Doubly Fed Induction Generator*, **IEEE General Meeting Minneapolis, USA**, July 25-29, 2010 (**Panel Paper**).
348. Ranjana Sodhi, SC Srivastava, **SN Singh**, *A Transient Monitor to Reflect the Quality of Synchrophasors*, **IEEE General Meeting Minneapolis, USA**, July 25-29, 2010.
349. P Tripathy, SC Srivastava, **SN Singh**, *A Noise Space Decomposition based Method for Identifying Low Frequency Oscillations using Synchro-Phasor Measurements*, **IEEE General Meeting Minneapolis, USA**, July 25-29, 2010.
350. JG Singh, SN Singh, SC Srivastava and L Soder, *Power System Security Enhancement by Optimal Placement Of UPFC*, **4th IASTED Asian Conference on Power and Energy Systems, AsiaPES 2010**, Phuket, Thailand; November 24-26, 2010.
351. **SN Singh** and KS Verma, *Demand Response in Electricity Markets: Current Trends and Future Perspectives*, **GRIDTECH 2011, New Delhi**, April 19-20, 2011.
352. Amanulla Bugga, Saikat Chakrabarti, and **SN Singh**, *Reconfiguration of Power Distribution Systems using Probabilistic Reliability Models*, **2011 IEEE PES General Meeting**, July 26-29, 2011, Detroit, Michigan, USA.
353. Naveen Jain, **SN Singh** and SC Srivastava, *Planning and Impact Evaluation of Distributed Generators in Indian Context using Multi- Objective Particle Swarm Optimization*, **2011 IEEE PES General Meeting**, July 26-29, 2011, Detroit, Michigan, USA.

354. J Mitra, N Cai, MY Chow, S Kamalasadnan W Li, W Qiao, **SN Singh**, AK Srivastava, SK Srivastava, GK Venayagamoorthy and Z Zhang, *Intelligent Methods for Smart Microgrids*, **2011 IEEE PES General Meeting, July 26-29, 2011, Detroit, Michigan, USA (Panel Paper)**.
355. Sanjeev Kumar Mallik, S Chakrabarti and S N Singh, *Improving The Convergence Characteristic Of Hybrid State Estimation Using Pseudo Measurement*, **17th Power Systems Computation Conference 2011, Stockholm, Sweden**.
356. Ajay Shekhar Pandey, Devender Singh, S.K. Sinha and **SN Singh**, *Wavelet Decomposition based FINN Model for Short Term Load Forecasting*, **The 2nd AIT-PEA International Conference & Utility Exhibition on Power and Energy Systems: Issues and Prospects for Asia (ICUE 2011)**, September 28-30, Pattaya, Bangkok.
357. Sachin K Jain, D Saxena, and **SN Singh**, *Adaptive Wavelet Neural Network Based Harmonic Estimation of Single-Phase*, **The 2nd AIT-PEA International Conference & Utility Exhibition on Power and Energy Systems: Issues and Prospects for Asia (ICUE 2011)**, September 28-30, 2011, Pattaya, Bangkok.
358. AK Jain, SC Srivastava, **SN Singh** and L Srivastava, *Demand Responsive Bidding Strategy of a Buyer in Uniform Price Electricity Market*, **IEEE PES ISGT 2011, Kovlam, India**, December 1-3, 2011, pp. 268 – 273.
359. Sachin K Jain and **SN Singh**, *Impact of Signal Attributes on Autocorrelation Matrix Dimension for Smart Grid Solutions*, **IEEE PES ISGT 2011, Kovlam, India**, December 1-3, 2011.
360. D Saxena, **SN Singh** and KSverma, *Analysis of Composite Power Quality Events Using-Transform*, **IEEE PES ISGT ASIA 2012, Tianjin China**, May 21-24, 2012.
361. Naveen Jain, S. N. Singh, S. C. Srivastava, *Meta-Heuristic Approach for Distributed Generation Planning in Electricity Market Paradigm*, **IEEE PES General meeting 2012, San Diego, California, USA**, July 22-26, 2012 (**Panel paper**).
362. Mahesh Kumar, **SN Singh** and SC Srivastava, *Design and Control of Smart DC Microgrid for Integration of Renewable Energy Sources*, **IEEE PES General meeting 2012, San Diego, California, USA**, July 22-26, 2012 (**Panel paper**).
363. Bharat Singh, **SN Singh** and L Wang, *Technical and Economical Practices for Alternative Energy in India*, **IEEE PES General meeting 2012, San Diego, California, USA**, July 22-26, 2012 (**Panel paper**).
364. Sachin K Jain and **SN Singh**, *ESPRIT Assisted Artificial Neural Network for Harmonics Detection of Time-varying Signals*, **IEEE PES General meeting 2012, San Diego, California, USA**, July 22-26, 2012.
365. S. K. Mallik, S. Chakrabarti and S.N. Singh, *A Regularized Method for Solving Ill-Conditioned Hybrid State Estimation Problem*, **2nd International Conference on Power, Control and Embedded Systems (ICPCES-2012)** held during December 17-19, 2012 at MNNIT, Allahabad
366. Ranjana Sodi, SC Srivastava and **SN Singh**, *Teager Energy Based Dynamic Phasor Estimation*, **Annual IEEE India Conference, INDICON 2012**. Kochi, Kerala; India; December 7- 9 , 2012.

367. D Saxena and **SN Singh**, *SVM Based Characterization and Classification of Composite Power Quality Events using HHT*, **GRIDTECH 2013, 4rth International Exhibition & Conference, Pragati Maidan, New Delhi**, April 3-5, 2013.
368. Ponnaganti Pavani and **SN Singh**, *Reconfiguration of radial distribution networks with distributed generation for reliability improvement and loss minimization*, **2013 IEEE PES General Meeting**, July 21-25, 2013, Vancouver, Canada.
369. Vivek Nandan Lal, **S N Singh**, Maganti Siddhardha, *Control of a Large Scale Single-Stage Grid-Connected PV System Utilizing MPPT and Reactive Power Capability*, **2013 IEEE PES General Meeting**, July 21-25, 2013, Vancouver, Canada.
370. Kanna Bhaskar and **SN Singh**, *Improved RNN and AWNN Based Wind Power Forecasting using Meteorological Inputs*, **1st Annual International conference on Power, Energy and Electrical Engineering (PEEE)**, Singapore, August 26-27, 2013, pp. 79-84.
371. Sanjeev Kumar Mallik, Sarthak Handa, Saikat Chakrabarti and **SN Singh**, *Performance Study of a Regularized Method for Solving Non-Converging Power System State Estimation Problems*, **5th International Conference on Power Systems (ICPS)**, October 28-30, 2013, Kathmandu.
372. Arvind Jain, S.C. Srivastava, **S.N. Singh** and Laxmi Srivastava, *Artificial Bee Colony Algorithm Based Bidding Strategy Under Transmission Constraint*, **5th International Conference on Power Systems (ICPS)**, October 28-30, 2013, Kathmandu.
373. Mahesh Kumar, **S.N. Singh** and S. C. Srivastava, *Development of Control Strategy for Hybrid Energy Storage System in a DC Microgrid*, **5th International Conference on Power Systems (ICPS)**, October 28-30, 2013, Kathmandu.
374. Anup Shukla and **S.N. Singh**, *Pseudo-Inspired PSO for Solving Unit Commitment Problem Including Renewable Energy Sources*, **5th International Conference on Power Systems (ICPS)**, October 28-30, 2013, Kathmandu.
375. 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**)
376. 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.
377. Sachin Kumar Jain, S. Chakrabarti and **S. N. Singh**, *Review of Load Frequency Control Methods, Part-II: Post-deregulation Scenario and Case Studies*, **First International Conference on Control, Automation, Robotics and Embedded systems (CARE-2013)**, December 16-18, Jabalpur, India.
378. Prabhakar Tiwari, **SN Singh** and Omveer Singh, *Challenges to under graduate students in deregulated technical education*, **IEEE International Conference in MOOC: Innovation and Technology in Education (MITE)**, December 20-22, 2013, Jaipur.
379. 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.**
380. S. Chitturi, S. Chakrabarti, and **S. N. Singh**, *Comparing Performance of Prony Analysis and Matrix Pencil Method for Monitoring Power System Oscillations*, **2014 IEEE Innovative Smart Grid Technologies Conference, Asia (ISGT ASIA)**, 20-23 May, 2014, Kuala Lumpur, Malaysia.
 381. K Bhaskar and **SN Singh**, *Wind Power Bidding Strategy in a Day-ahead Electricity Market*, **2014 IEEE PES General Meeting** , Washington DC, July 27 - 31, 2014.
 382. 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.
 383. 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.
 384. 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
 385. 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.
 386. Prerna Jain, Rohit Bhakar and **SN Singh**, *Hybrid Differential Evolution with BBO for Genco's multi-hourly strategic bidding*, **6th IEEE India International Conference on Power Electronics (IICPE 2014)**, NIT Kurukshetra, December 8-10, 2014.
 387. 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.)
 388. 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.
 389. DD Sharma, **SN Singh**, *Designing Community Energy Storage System For Peak Saving Application With Load Pattern Data*, **5th International Exhibition and Conference, GRIDTECH2015**, New Delhi during April 8-9, 2015.
 390. Anup Shukla and **SN Singh**, *Unit Commitment Using Advanced Three-Stage Approach*, **2nd International Conference on National Capacity Building Strategy for Sustainable Development and Poverty Alleviation**, Dubai, 26-28 May, 2015, pp. 477-484.
 391. D Panda, **SN Singh** and V Kumar, *Option Electricity Market Design Under UI Mechanism in India*, **2nd International Conference on National Capacity Building**

- Strategy for Sustainable Development and Poverty Alleviation**, Dubai, 26-28 May 2015, pp. 503-510.
392. 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.
 393. DD Sharma, SN Singh, BS Rajpurohit, FG Longatt, *Critical load profile estimation for sizing of battery storage system*, **2015 IEEE Power & Energy General Meeting, Denver**, USA, July 26-30, 2015.
 394. 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.
 395. Francisco Gonzalez-Longatt, Bharat Singh Rajpurohit and **SN Singh**, *Smart Multi-Terminal DC μ -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.
 396. Rajeev Kumar Chauhan, BS Rajpurohit, Robert E Hebner, SN Singh, and FMG Longatt, *Design and Analysis of PID and Fuzzy-PID Controller for Voltage Control of DC Microgrid*, **2014 IEEE Innovative Smart Grid Technologies Conference, Asia (ISGT ASIA)**, November 5-8, 2015, Bangkok, Thailand.
 397. Vinay Kumar Tiwari, Sachin Kumar Jain and **SN Singh**, *Hardware Implementation of Discrete Wavelet Packet Transform for Harmonics Estimation*, **4th Students' Conference on Engineering and Systems 2015 (SCES2015)**, MNNIT Allahabad, November 6-8, 2015.
 398. 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.
 399. 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.
 400. 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.
 401. 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.
 402. 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.
403. F. Gonzalez-Longatt, BS Rajpurohit, and SN Singh, *Optimal Structure of a Smart DC Micro-grid for a Cluster of Zero Net Energy Buildings*, **IEEE International Energy Conference, ENERGYCON 2016**, Leuven, Belgium, 4 April 2016- 8 April 2016.
 404. 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.
 405. 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
 406. 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.
 407. 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.
 408. 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
 409. 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.
 410. 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.
 411. 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.
 412. 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.
 413. Hariharan Balakrishnan, KK Tomar, **SN Singh**, *An Agent Based Approach for Efficient Energy Management of Microgrids*, **IEEE TENSYPMP 2017**, Kochi, Kerala, 14-16 July 2017.
 414. 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.

415. Ankit Yadav, **SN Singh** and SP Das, *Modular Multi-level Converter Topologies: Present Status and Key Challenges*, **4th IEEE UP Section Conference (UPCON 2017)**, GLA University Mathura, October 26-28, 2017 (**Best Paper Award**)
416. Priyanka Ganawar, **SN Singh** and Saikat Chakraborti, *Network Reconfiguration for Unbalanced Distribution Systems*, **IEEE TENCON 2017**, Penang, Malaysia, Nov 5-8, 2017.
417. Chaman Lal, **SN Singh** and Saikat Chakraborti, *Irradiance Forecasting Using Adaptive Wavelet Neural Network*, **9th OEEE PES Asia-Pacific Power and Energy Engineering Conference (IEEE PES APPEEC 2017)**, Bangalore, Nov 8-10, 2017.
418. Sweta Singh, AN Tiwari and **SN Singh**, *Sensorless Speed Estimation of PM Synchronous Motor Drive using MRAS*, **IEEE Women in Engineering, Electronics and Communication Engineering (WIECON-ECE 2017)**, WIT Dehradun, Dec 18-19, 2017.
419. Bindeshwar Singh, Prabhakar Tiwari and **SN Singh**, *A Novel Approach for Improvement of the System Power Factor by Optimally Placed DG and STATCOM*, **International R&D Conclave, CEA, New Delhi, 20th -21st Febuary, 2018**.
420. Akhilesh P Gupta, A. Mohapatra and **SN Singh**, *Power System Network Equivalents: Key Issues and Challenges*, **2018 IEEE Region 10 Conference (TENCON)**, Jeju Korea, Oct 19-31, 2018.
421. Ankit Yadav, **SN Singh** and Shyama Prasad Das, *Development of EMT Model for Circulating Current Control*, **5th IEEE Uttar Pradesh Section International Conference (UPCON18)**, MMMUT Gorakhpur, UP 2-4 Nov 2018 (**Best Paper Award**).
422. Naran Pindoriya, Aristides Kiprakis, Kushan Ajay Choksi, **S N Singh**, Dinesh Garg, Deepak Padmanabhan and John Thompson, *Integrated Energy Management Framework for Environmentally Sustainable Energy Access*, **5th IEEE Uttar Pradesh Section International Conference (UPCON18)**, MMMUT Gorakhpur, UP 2-4 Nov 2018.
423. Bindeshwar Singh, Prabhakar Tiwari and **S N Singh**, "Enhancement of power system performances by optimally placed FACTS controllers by using artificial intelligence techniques in distribution systems: A taxonomical review", **5th IEEE Uttar Pradesh Section International Conference (UPCON18)**, MMMUT Gorakhpur, UP 2-4 Nov 2018.
424. Puneet Srivastava, **S. N. Singh** and A. N. Tiwari. *Performance Estimation of Permanent Magnet Synchronous Generator Based Wind Energy Conversion System*", **5th IEEE Uttar Pradesh Section International Conference (UPCON18)**, MMMUT Gorakhpur, UP 2-4 Nov 2018.
425. Vaibhav Jain, Naveen Jain and Sri Niwas Singh, "Smart Home Load Manager Algorithm under Demand Response", **5th IEEE Uttar Pradesh Section International Conference (UPCON18)**, MMMUT Gorakhpur, UP 2-4 Nov 2018.
426. Anmol Sharma, SC Srivastava and **SN Singh**, *Optimal Selection of DC Microgrid Architecture*, **2018 IEEE 8th Power India International Conference (PIICON18)**, NIT Kurukshetra, December 10-12, 2018.

427. Shweta Singh, A.N. Tiwari, and **S.N. Singh**, *Performance of Sensorless Method for PMSM Drive*, **8th IEEE International Conference on Power Electronics (IICPE-2018)**, MNIT Jaipur (Rajsthan), India, December 13-15, 2018.
428. Avinash Kumar, B Ravi Kumar, A Mohapatra and **SN Singh**, *High Speed Differential Protection of Series-Shunt Compensated Transmission Line Using Phaselet*, **15th IEEE India Council International Conference (INDICON 2018)**, Amrita Vishwa Vidyapeetham, Coimbatore, December 16-18, 2018.
429. Shiv Kumar Singh, Harsh Vikram Singh, Saikat Chakrabarti and **SN Singh**, *Analysis of energy consumption and implementation of R-statistical programming for load forecasting in presence of solar generation*, **Intelligent Computing Techniques for Smart Energy Systems**, Manipal University Jaipur, December 22-23, 2018.
430. **SN Singh** et al, *Intelligent Hardware-Software Platform for Efficient Coupling of Water-Energy Nexus in Smart Cities: A Conceptual Framework*, **5th EAI International Conference on Smart Cities within SmartCity360° Summit**, Guimarães, Portugal, November 21-23, 2018.
431. A. Kumar, B. R. Kumar, R. K. Panda, A. Mohapatra and **SN Singh**, "*Phaselet Approach for Islanding Detection in Active Distribution Networks*," **2019 IEEE Power & Energy Society General Meeting (PESGM)**, Atlanta, GA, USA, 2019.
432. Priyanka Gangwar, **SN Singh** and Saikat Chakraborti, *An Analytical Approach for Phase Balancing Considering Customer Load Profile*, **2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe)**, Bucharest, Romania September 29 - October 2, 2019.
433. Vineet, A Mohapatra and **SN Singh**, *Impact of Modes of Operation of Smart Inverters on Volt-VAR Optimization*, **2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe)**, Bucharest, Romania September 29 - October 2, 2019.
434. Bindeshwar Singh, S. N. Singh, Rajesh Kumar and Prabhakar Tiwari, "A *Comprehensive Review on Enhancement of Voltage Stability by using Different FACTS Controllers Planning in Power System*", **6th IEEE Uttar Pradesh Section International Conference (UPCON18)**, AMU Aligarh, UP 8-10 Nov 2019.
435. Puneet Srivastava, AN Tiwari and SN Singh, *Smoothing of wind power Fluctuations in Direct Drive PMSG Based WECS with Blade-Pitch-Angle Control*, **IEEE sponsored International Conference on Energy, Environment and Material Sciences (ICE2M)**, MMMUT Gorakhpur, December 1-3, 2019.
436. Puneet Srivastava, AN Tiwari and SN Singh, *Low Voltage Ride-Through Achievement in PMSG based Wind Turbine with Braking Chopper*, **IEEE sponsored International Conference on Energy, Environment and Material Sciences (ICE2M)**, MMMUT Gorakhpur, December 1-3, 2019.
437. Chaman Lal Dewangan, **SN Singh**, Saikat Chakraborti and Vineeth Vijayan, *Automatic Power Factor Controller in Low Voltage Residential Distribution System with High Solar Power Generation*, **International Conference on Power and Energy Systems (ICPES)**, Perth, Australia December 10-12, 2019.

438. Ankit Yadav, SN Singh, SP Das, *Analysis of Transformerless MMC and Suppression of Third Order Harmonic Current*, **National Power Electronics Conference (NPEC)**, NIT Trichy, December 13-15, 2019.
439. Akhilesh Gupta, SN Singh, A Mohapatra, *An Effective Dynamic Equivalent Model of Wind Farm Connected to Power System Network* to **2019 IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC)**.
440. **SN Singh Et al**, *Time Series Representation Learning Applications for Power Analytics*, **20th International Conference on Intelligent System Application to Power Systems (ISAP)**, IIT Delhi, December 10-14, 2019.
441. B Singh, Prabhakar Tiwari, **SN Singh**, RP Pyasi, Manju Vishwakarma and DK Patel, *Effect of Power Factor Variation of DG on Its ize and location in Power System for Enhanced System Performance*, **IEEE sponsored International Conference on Electrical and Electronics Engineering (ICE3)**, MMMUT Gorakhpur, February 14-15, 2020.
442. Avinash Kumar, RK Panda, Abheejeet Mohapatra and **SN Singh**, *Lissajous Parameters based Islanding Detection of Multiple DGs in Microgrid*, **2020 IEEE PES General Meeting**, August 3-8, 2020.
443. Ankit K Srivastava, AN Tiwari, **SN Singh**, Venkatesh Pampana and Markus Duchon, *Harmonic frequency estimation with MEMO-ESPRIT Technique using MATLAB and Python*, **7th IEEE Uttar Pradesh Section International Conference (UPCON20)**, MNNIT Allahabad, 27-29 Nov 2020.
444. Siddhant Kumar, Bharat Singh Rajpurohit, **SN Singh**, Iliana Marinova and Valentin Mateev, *A New Short-Circuit Protection Scheme for Boost Converter*, **21st National Power Systems Conference (NPSC 2020)**, IIT Gandhinagar, Gujarat, December 17-19, 2020.
445. V Vineet, A Mohapatra and **SN Singh**, *A Metaheuristic approach for Conservation Voltage Reduction in Unbalanced Active Distribution Networks*, **21st National Power Systems Conference (NPSC 2020)**, IIT Gandhinagar, Gujarat, December 17-19, 2020.
446. Avinash Kumar, Abheejeet Mohapatra and **SN Singh**, *Improved Detection Time and Performance of Frequency Relay for Islanding Detection of DG*, **21st National Power Systems Conference (NPSC 2020)**, IIT Gandhinagar, Gujarat, December 17-19, 2020.
447. Umesh Agarwal, Naveen Jain, Manoj Kumawat, SN Singh, *An Assessment Procedure for Distribution Network Reliability Considering Load Growth*, **2nd Electric Power and Renewable Energy Source Conference 2021**, NIT Jamshedpur, May 28-29, 2021.
448. Ankit Yadav, **SN Singh**, SP Das, *Design and Analysis of Multi-pole MMC-HVDC*, **2021 IEEE PES General Meeting**, July 25-29, 2021.
449. Sourabh Ghosh, Asheesh Kumar Singh, Arun Paul and **SN Singh**, *Disturbance Observer-based Sliding Mode Control of PV-Battery Assisted EV Charging Station*, **8th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2021)**, Tulas Dehradun, November 11-13, 2021 (**Best paper Award in Electrical Engineering**).

450. Thakura Prasad Meher, Abheejeet Mohapatra and **SN Singh**, *Condition Monitoring of Power Electronic Converters: Present Status and Key Challenges*, **5th IEEE International Conference on Condition Assessment Techniques in Electrical Systems**, National Institute of Technology Calicut, India, December 3-5, 2021.
451. Chaman Lal Dewangan, **SN Singh**, Saikat Chakrabarti and Rakesh Kumar Panda, *An Improved Automatic Power Factor Controller in the RES-Integrated Distribution System*, **International Conference on Control, Automation, Power and Signal Processing (CAPS21)**, IIITDM Jabalpur, December 10-11, 2021.
452. Akhilesh Gupta, **SN Singh**, A Mohapatra, *DFIG Equivalence of a Wind Farm by Extended Kalman Filter based Parameters Estimation*, **9th IEEE International conference on Power Systems (ICPS 2021)**, IIT Kharagpur, December 16-18, 2021.
453. V Vineet, A Mohapatra and **SN Singh**, *A Coordinated Strategy for Optimal Operation of Unbalanced EDN via BESS, VVO and DSM*, **9th IEEE International conference on Power Systems (ICPS 2021)**, IIT Kharagpur, December 16-18, 2021.
454. Ankit Srivastava, A.N. Tiwari and **Sri Niwas Singh**, *Harmonic/Inter-harmonic Estimation: Key Issues and Challenges*, **6th International Conference on Computing, Communication and Automation (ICCCA)**, 17-19, December 2021 (online) (**Got Best paper Award**).
455. Atul Soni, Abheejeet Mohapatra and **SN Singh**, *Impact of Control Parameters on Short-Circuit Capacity of Inverter Based Sources*, **IEEE IAS Global Conference on Emerging Technologies (GlobConET)** during May 20-21, 2022 (online).
456. Abhimanyu Kumar, S Ghosh, Asheesh K Singh, Rich Negi and **SN Singh**, *Design and Implementation of Super Twisting Sliding Mode Control for PV Grid-connected Water Pumping System*, **IEEE IAS Global Conference on Emerging Technologies (GlobConET)** during May 20-21, 2022 (online).
457. Ankit Srivastava, A.N. Tiwari and Sri Niwas Singh, *Harmonic and Interharmonic Estimation using Poincaré Filtering Assisted ESPRIT Method*, **IEEE IAS Global Conference on Emerging Technologies (GlobConET)** during May 20-21, 2022 (online).
458. Sourabh Ghosh, Soumyabrata Das, Asheesh K. Singh and Sri Niwas Singh, *Optimal Scheduling of Electric Vehicles in a Solar Rooftop Parking Lot with V2V Power Transfer"* **9th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2022)**, December 2-4, 2022, IIIT Allahabad.
459. Sourabh Ghosh, Asheesh Kumar Singh, Richa Negi and SN Singh, *Battery Degradation Aware Power Exchange in Grid-Integrated PV-Battery Assisted EV Charging Station* **IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)**, December 14-17, 2022, MNIT Jaipur.
460. Chaman Lal Dewangan, Manoranjan Satapathy, S n Singh, Saikat Chakrabarti, *An Impact Study of Time of Use Pricing on Voltage Control Devices*, **22nd National Power Systems Conference (NPSC 2020)**, IIT Delhi, December 17-19, 2022.
461. Gaurav Khare, Abheejeet Mohapatra, S N Singh, *Identifying the Attack Probability of Measurements in Nonlinear State Estimator*, **22nd National Power Systems Conference (NPSC 2020)**, IIT Delhi, December 17-19, 2022.

462. Ankit Srivastava, A.N. Tiwari and **Sri Niwas Singh**, *Deployment of MEMO-ESPRIT python tool at GIFT City testbed for Harmonic/Interharmonic analysis*, **IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT)**, The Maldives National University, Male City (Maldives), March 11-12, 2023.
463. Nibha Kumari, Sourabh Ghosh, Asheesh Kumar Singh, Navneet Kumar Singh, and Sri Nivas Singh, *PSO-based Higher Order Sliding Mode Controller for PMSG-based Tidal Turbine*" **2nd International Conference on Smart Grid Energy Systems and Control (SGESC-2023)**, April 7-9, NIT Kurukshetra
464. Nibha Kumari, Sourabh Ghosh, Asheesh Kumar Singh, Navneet Kumar Singh, and Sri Niwas Singh, *Power Management Strategy for Battery-Supercapacitor-based HESS in a Residential Grid-connected PV System*, **2nd International Conference on Smart Grid Energy Systems and Control (SGESC-2023)**, April 7-9, NIT Kurukshetra.
- 465.

(b) National (in India)

466. SK Agrawal, JK Malhotra, AK Mitra and **SN Singh**, *Optimal Reactive Power Dispatch using New Loss Formula*, **published in 59th R & D session of CBIP (India) at Calcutta** during Feb. 1994, pp. 114-118.
467. SK Agrawal, AK Mitra, **SN Singh**, DV Singh, KL Kakkar, *Power System Studies for Expansion Planning*, **published in the Conference on T & D Losses organized by Power Finance Corporation of India and USAID** during January 21-22 1994, Vol. E-2, pp. 1-8.
468. **SN Singh** and SC Srivastava, *An Optimal Load Flow Model in Indian Context and its Solution using Genetic Algorithm*, **Proc. of 8th National Power System Conference, New Delhi (India)** 14-17 Dec 1994, pp. 663-668.
469. **SN Singh** and SC Srivastava, *Contingency Selection Algorithm for Voltage Security Analysis*, **Proc. of 9th National Power System Conference, I.I.T. Kanpur (India)**, 19-21 December 1996, pp. 479-486.
470. 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.
471. **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.
472. 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.
473. 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.

474. 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.
475. 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.
476. 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.
477. T Jain, L Srivastava, M Pandit and **SN Singh**, *Radial Basis Function Neural Network Based Fast Voltage Contingency Ranking*, **12th National Power System Conference**, December 27-29, 2002, IIT Kharagpur (India), pp. 791-795.
478. SK Srivastava, KG Upadhyay and **SN Singh**, "*FACTS Devices and Their Controllers*", **12th National Power System Conference**, December 27-29, 2002, IIT Kharagpur (India), pp. 468-473.
479. 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.
480. 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.
481. T Jain, L Srivastava and **SN Singh**, *Feature Selection Techniques for Voltage Contingency Ranking using RBFN*, **Proceedings of Conference on Services through I.T. Enabled Systems (SITES-2003) Gwalior**, April 19-20, 2003, pp 175-180.
482. SK Srivastava, KG Upadhyay, S Khalid and **SN Singh**, *Simulink Based d-q Axis Model of Unified Power Flow Controller*, **National Conference on Control, Communication and Information Systems (CCIS2004)**, Goa, January 23-24, 2004.
483. Praveen Traipathy, **SN Singh** and SC Srivastava, *Power Flow Analysis with Optimally Placed D-STATCOM in Distribution System*, **13th National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 128-133.
484. OP Dwivedi, JG Singh and **SN Singh**, *Simulation and Analysis of Unified Power Flow Controller Using SIMULINK*, **13th National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 1048-1054.
485. P Bajpai and **SN Singh**, *Bidding and Gaming in Competitive Power Market: An Overview and Key Issues*, **13th National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 338-346.
486. J Krishna, L Srivastava, M Pandit and **SN Singh**, *On-line Contingency Analysis Using Counterpropagation Neural Network*, **13th National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 333-337.

487. SK Srivastava, LN Giri, KG Upadhyay and **SN Singh**, *Analysis of Internal Operating Limits of UPFC for Power Flow Control*, **13th National Power System Conference, IIT Madras (Chennai)**, December 27-30, 2004, pp. 890-895.
488. 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.
489. 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.
490. 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.
491. 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.
492. 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.
493. 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**).
494. Bharat Singh Rapurohit and **SN Singh**, *An Efficient Adaptive Hysteresis Band Current Controller For Active Power Filters*, **15th IEEE Annual Symposium 2006**, 24-25 Nov 2006.
495. 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.
496. 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.
497. 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**).
498. Seethalekshmi K., **SN Singh** and SC Srivastava, *Wide-Area Protection and Control: Present Status and Key Challenges*, **15th National Power System Conference (NPSC08), IIT Bombay**, during **December 16-18, 2008**, pp. 169-175.
499. T Jain, **SN Singh** and SC Srivastava, *Dynamic Available Transfer Capability Evaluation Considering Hopf Bifurcation Limit*, **15th National Power System Conference (NPSC08), IIT Bombay**, during **December 16-18, 2008**, pp. 55-60.

500. 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.
501. **SN Singh**, J Østergaard and Naveen Jain, *Distributed Generation in Power System: An Overview and Key Issues*, **24th Indian Engineering Congress, NIT Surathkal, Kerala**, December 10-13, 2009.
502. Naveen Jain, **SN Singh** and SC Srivastava, *Particle Swarm Optimization Based Optimal Siting and Sizing of Multiple Distributed Generations*, **16th National Power Systems Conference, Hyderabad**, December 15-17, 2010.
503. K Bhaskar and **SN Singh**, *Wind Speed Forecasting using Multi-resolution Analysis based Adaptive Wavelet Neural Network*, **16th National Power Systems Conference, Hyderabad**, December 15-17, 2010.
504. 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).
505. 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.
506. 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).
507. P Pavani and **SN Singh**, *Cost Benefit Analysis of Distributed Generations Placed in Distribution Systems*, **Annual Technical Session of 94th Annual General Meeting, IE(I), UP State Center, Lucknow**. November 29, 2014. (Got Er Hari Mohan Memorial Award).
508. VN Lal and **SN Singh**, *PQ Capability Curve of a Single-Stage Utility Grid Connected PV System*, **94th Annual General Meeting, IE(I), UP State Center, Lucknow**. November 30, 2014. (Got Dr PS Nigam Power Sector Award-2014).
509. Sanjeev Mallik, Saikat Chakrabarti and **SN Singh**, *An Investigation on the Numerical Ill-conditioning of Hybrid State Estimators*, **18th National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
510. 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*, **18th National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
511. Vivek Lal, **SN Singh**, *Single-Stage Utility-Scale PV System with PSO Based MPPT Controller*, **18th National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.

512. Debasmita Panda, **SN Singh** and Vimal Kumar, *Risk Constrained Profit Maximization under UI Mechanism in India*, **18th National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
513. Shikha Chittora and **SN Singh**, *Coherency Based Dynamic Equivalencing of Electric Power System*, **18th National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
514. AK Jain, **SN Singh**, SC Srivastava and L Srivastava, *Bacteria Foraging Optimization Algorithm Based Strategic Bidding In Electricity Markets*, **18th National Power Systems Conference, IIT Guwahati**, December 18-20, 2014.
515. Kanna Bhasker and **SN Singh**, *Predictive Short-Term ORPD in Large Wind Farms for Minimization of Losses and OLTC Tap Movements*, **19th National Power Systems Conference, IIT Bhubaneswar**, December 19-21, 2016.
516. Gaurav Khare, **SN Singh**, Abheejet Mohapatra and S Rajan, *Prediction of Missing PMU Measurement using Artificial Neural Network*, **19th National Power Systems Conference, IIT Bhubaneswar**, December 19-21, 2016.
517. 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*, **19th National Power Systems Conference, IIT Bhubaneswar**, December 19-21, 2016.
518. Anup Shukla, S Keshawani and SN Singh, *Efficient Holomorphic Based Approach for Unit Commitment Problem*, **19th National Power Systems Conference, IIT Bhubaneswar**, December 19-21, 2016.
519. Shweta Singh, A.N. Tiwari, **S.N. Singh**, *Model Predictive Control and Sliding Mode Control for PMSM Drive: A Review*, **IEEE sponsored National Conference on Recent Advances in Electrical & Electronics Engg.**, MMMUT Gorakhpur, March 18-17, 2018.
520. Akhilesh K Gupta, **SN Singh** and Abheejeet Mohapatra, *Apparent Power Loss Based Equivalent Model of Wind Farm Collector System*, **20th National Power Systems Conference, NIT Trichy**, December 13-15, 2018.

Short Papers/Discussions in Refereed Journals:

521. **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.
522. SC Srivastava, PK Kalra and **SN Singh**, 'Discussion to the paper by M. Noroozian 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.
523. 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**.

524. 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**.
525. 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**.
526. 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**.
527. 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**.
528. **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.
529. **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.
530. 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.
531. 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.
532. **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

533. **SN Singh**, *Role of FACTS Devices in Competitive Power Market*, **Workshop on Deregulation in Power Industry organized by IIT Bombay**, November 18-19, 2002.
534. **SN Singh**, *Power System Restructuring Models*, **Workshop on Deregulation in Power Industry organized by IIT Bombay**, November 18-19, 2002.
535. **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.
536. **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.

537. **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.
538. **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.
539. **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.
540. **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**).
541. **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.
542. **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.
543. **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.
544. **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 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. 10th 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. 3rd 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. 4th IEEE International Conference on Power Electronics and Drive Systems, Bali, Indonesia, October 22-25, 2001.
35. 1st 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. 12th ISAP03, Lemnos, Greece, 31st August- 3rd 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. 13th 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. 2nd International Conference on Power Systems (ICPS2007), CPRI Bangalore, 12-14 December 2007 (**Session Chairman**)
57. 2nd 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. 3rd 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. 15th 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, Povia 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. 4th 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. 2nd 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)” 6th & 7th 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. 2nd 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, 18th 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), 26th 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. 2nd 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. 1st 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. 5th 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), IIITDM 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. 3rd 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. 6th IEEE Power India International Conference (PIICON-2014), during 5-7 December 2014, Delhi Technological University (DTU), New Delhi, India (**Session Chair**).
123. 3rd 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 25th 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. 2nd National Conference on Recent Advances in Communication, Electronics and Electrical Engineering (RACE-2015) from 27th-28th March, 2015 at I.T.S Engineering College, Greater Noida (**Invited Speaker**)
131. GRIDTECH 2015, 5th Conference and Exhibition, PGCIL, New Delhi, April 8-10, 2015 (**Session Chair**)
132. 2nd 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. 3rd 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 (ICETEESSES-16)”, KNIT Sultanpur, on March 11-12, 2016 (**Global Citizen Award**)
152. 2nd 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. 2nd International Conference on **Advances in Computing, Communication & Automation (ICACCA 2016)**, MJP Ruhilkhand 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. 19th 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**).
173. IETE Mid-term Symposium (MTS-2017), PSIT Kanpur, April 7-9, 2017 (**General Chair**)
174. 1st Malviya Research Conclave 2017, MMMUT Gorakhpur, July 8-10, 2017 (**Organizer**)
175. IEEE R10 Technical Symposium (TENSYP 2017), Kochi, Kerala, 14-16 July 2017 (**Invited Guest**).
176. IEEE Power & Energy Society general Meeting at Chicago, USA , July 17-21, 2017 (**Panelist, author**)
177. IEEE Panel of Conference Organizer (POCO) meeting , Sydney, Australia, August 7-10, 2017 (**Invited Guest**)
178. IEEE Section Congress meeting, Sydney, Australia, August 11-13, 2017 (**Invited delegate**).
179. 2nd International Conference on Advances in Computing, Communication and Automation, September 15-16, 2017 at Tula’s Institute Dehradun (**Chief Guest**).
180. 6th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO), September 20-23, 2017, Amity University, Noida (**Guest of Honor**).
181. International Conference on Green Chemistry and Environmental Health (GCEH 2017), Marwar Business School Gorakhpur, September 25-26, 2017 (**Chief Guest**).
182. All India Student, Young Professionals, Women in Engineering Congress (AISYWC), IIT Allahabad, September 27-29, 2017 (**Guest of Honor**).
183. 1st International Conference on Intelligent Systems and Information Management (ICISIM-2017), MGMs’ Jawaharlal Nehru Engineering College, Aurangabad, MS India, during 5-6 October 2017 (**Chief Guest**).

184. 4th IEEE Uttar Pradesh Section International Conference on Electrical, Computer & Electronics, (UPCON) 2017, GLA Mathura, October 26-28, 2017 (**Keynote speaker**).
185. International Conference on Recent Innovation in Electrical, Electronics & Communication Systems (RIEECS-2017), Graphic Era University, Dehradun, October 28-29, 2017 (**Keynote Speaker**).
186. IEEE International Conference on Emerging Trends on Computing and Communication Technologies, was held on 17-18, Nov. 2017 at Graphic Era Hill University, Dehradun (**Chief Guest**).
187. National Seminar on Sustainable Development for Purvanchal (UP), Nov 26, 2017, DDU Gorakhpur University (**Guest of honor**).
188. 14th IEEE India Council International Conference (INDICON 2017), IIT Roorkee December 15-17, 2017 (**Valedictory Function Chief Guest**).
189. 3rd IEEE Women in Engineering, Electronics and Communication Engineering (WIECON-ECE 2017), WIT Dehradun, Dec 18-19, 2017 (**Guest of honor**).
190. 5th Region 10 Humanitarian Technology Conference (R10-HTC), BUET Dhaka, Dec 21-23, 2017 (**Keynote Speaker**).
191. 5th International Conference on Signal Processing & Integrated Networks - SPIN 2018, Amity University, Noida, February 22-23, 2018 (**Guest of Honor**).
192. International conference on internet of things: Smart Innovation and Usages (IoTSIU2018), BIAS Bhimtal, February 23-24, 2018 (**Chief Guest**).
193. 6th National Power Engineering Conference, TCE Madurai, March 9-10, 2018 (**Chief Guest and Keynote Speaker**).
194. International Conference on Advance Computing, Communication , Energy, Instrumentation and Robotics (ICAC2EIR18), Galgotias College of Engineering and Technology, Greater Noida, India March 23-24, 2018 (**Chief Guest and Keynote Speaker**).
195. 3rd International Conference on Recent Innovations in Science and Engineering, BIT Gorakhpur, April 1-2, 2018 (**Chief Guest**).
196. International Conferences For Convergence Of Technology (I2CT), Pune, April 7-8, 2018 (**chief guest and keynote speaker**).
197. 2018 IEEE 1st International Conference on " Power Energy, Environment and Intelligent Control", organized by GL Bajaj ITM, Greater Noida during April 13-14, 2018 (**Chief Guest**).
198. Mini-POCO (Panel of Conference Organizer), Vizag, May 20, 2018, (**Chief Guest and Panelist**)
199. IEEE Panel of Conference Organizer (Convener) meeting , Berlin, Germany, July 18-20, 2018 (**Invited Guest**)
200. All India Student, Young Professionals, Women in Engineering Congress (AISYWC), IEEE Bangalore Section at Mysore, September 28-30, 2018(**Panelist & Guest of Honor**).
201. International Conference on Computing, Power and Communication Technologies (GUCON), Galgotias University; India, September 28-29, 2018 (**Guest of Honor and Keynote Speaker**).
202. International Conference on Automation and Computational Engineering (ICACE - 2018), Amity University Greater Noida, October 3-4, 2018 (**Guest of Honor & Award Recipient**).
203. International Conference on Advance Computing, Communication , Energy, Instrumentation and Robotics (ICAC2EIR18), Galgotias College of Engineering and Technology, Greater Noida, India March 23-24, 2018 (**Chief Guest and Keynote Speaker**).
204. International Conference on Advances in Computing, Communication Control and Networking (ICAC3N'18), GCET Greater Noida, October 12-13, 2018 (**Chief Guest and Keynote Speaker**).
205. 2018 IEEE Region 10 Conference (TENCON), Jeju Korea, Oct 19-31, 2018 (**Invited Guest**).
206. International Conference on Emerging Trends in Engineering, Science and Technology, Charusat, Changa, Gujrata, Nov 14, 2018 (**Chief guest**).
207. 20th National Power System Conference, NIT Trichy, December 14-16, 2018 (**Core Committee Member**)

208. 15th IEEE India Council International Conference (INDICON 2018), Amrita Vidyapeetham, Coimbatore, December 16-18, 2018 (**Guest of Honor**).
209. Amity International Conference on Artificial Intelligence – (AICAI'19), Amity University Dubai, Feb 4-6, 2019 (**Guest of honor & Keynote Speaker**).
210. MATLAB & Its Application in Electrical Engineering” Rajarshi Rananjay Singh Institute of Management & Technology, Amethi, during February 19-23, 2019 (**Chief Guest & Keynote Speaker**).
211. 5Th International Conference On Signal Processing And Communication (ICSC-2019), Jaypee Institute of Information Technology, Noida (INDIA) March 7th-9th, 2019 (**Keynote Speaker**).
212. 6th International Conference on Signal Processing and Integrated Networks (SPIN 2019) 7-8 March 2019, ASET, Amity University (**Valedictory Function Guest of Honor**)
213. 5th International Conference for Convergence in Technology, Pune (MS), India, 29th -31st March 2019 (**Chief Guest**).
214. 4th International Conference on “Academic Research in Engineering, Management And Information Technology”, F.E.T., M. J. P. Rohilkhand University, Bareilly, April 16-18, 2019 (**Keynote speaker**).
215. 4th International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU 2019), KEC Ghaziabad, April 18-19, 2019 (**Chief Guest**).
216. 5th Students’ Conference on Engineering and Systems, SCES-2019, May 29-31, 2019 MNNIT Allahabad (**Keynote speaker**).
217. International Conference on “Advances in Electronics, Electrical & Computational Intelligence, IIT Allahabad, May 31-June 1, 2019 (**Keynote speaker**).
218. IIT Allahabad, June 24-30, 2019 (**Chief Guest**).
219. Skill program, MNNIT Allahabad, June 24, 2019 (**Key note speaker**)
220. Ist Renewable Energy Dialogue: Unlocking Renewable Energy Potential in Uttar Pradesh, Sun Source Energy Lucknow, June 29, 2019 (**Guest of Honor**)
221. 2019 IEEE Convene, Washington DC, USA, August 1-2, 2019 (**Panelist**)
222. 2019 IEEE Power & Energy Society Genral Meeting, Atlanta USA, August 5-8, 2019.
223. IEEE R10 Conference Leadership Program, Goa, India, August 17-18, 2019.
224. International conference on Defence and Space Technologies ICDST2019, Institute of Engineering and Technology, Lucknow, Aug 23-25, 2019 (**Guest of Honor**)
225. IEEE R10 Panel of Conference Organizer (POCO), MMMUT Gorakhpur, Sept. 25, 2019 (**Chief Guest & Panelist**)
226. International Conference On Computing, Power and Communication Technologies (GUCON 2019), Galgotias University, Greater Noida, Sept 27-28, 2019 (**Guest of Honor**).
227. 4rth International Conference on Computing, Communication and security, Rome, Italy, October 10-11, 2019 (**Keynote Speaker**).
228. 2nd IEEE International Conference on Power Energy Environment and Intelligent Control; GL Bajaj Institute of Technology and Management, Greater Noida, October 18-19, 2019 (**Chief Guest**)
229. 6th IEEE Uttar Pradesh Section International Conference on Electrical, Computer & Electronics, (UPCON) 2017, AMU Alighrah, November 8-10, 2019 (**Chief Guest**).
230. 4th International Conference on Information Systems & Computer Networks (ISCON), GLA University, Nov 21-22, 2019 (**Guest of Honor**).
231. 2nd International Women Institute of Technology Conference on Electrical and Computer Engineering” (WITCON ECE), WIT Dehradun, November 22-23, 2019 (**Guest of Honor**).
232. 8th International Conference on System Modeling & Advancement in Research Trends (SMART), TMU Moradabad, 22-23 November 2019 (**Guest of Honor**).
233. International Conference on Energy, Environment and Material Sciences (ICE2M), MMMUT Gorakhpur, December 1-3, 2019 (**Chief Guest**).
234. 16th India Council International Conference (INDICON), December 13-15, 2019, Marwadi University, Rajkot, Gujarat (**Guest of Honor**).

235. 2nd Indian Conference on Antennas & Propagation (InCAP2019) December 19-22, 2019, Ahmadabad, India **(Guest of Honor)**.
236. International Conference on Contemporary Computing and Applications (IC3A) February 5-6, 2020, AKTU Lucknow **(Co-Patron)**.
237. International Conference on Electrical and Electronics Engineering (IC3), MMMUT Gorakhpur, February 14-15, 2020 **(Chief Guest)**.
238. International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC 2020), February 28-29, 2020, GLA Mathura, India **(Chief Guest)**.
239. IEEE Region 10 Symposium (TENSYP) 2020, Dhaka, Bangladesh, June 5-7, 2020 **(Keynote speaker)**.
240. 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020), June 4-5, 2020 (Amity University Noida **(Chief Guest)**).
241. 6th International Conference on Electronics, Computing and Communication Technologies, (CONECCT 2020) IEEE Bangalore Section, India, July 2-4, 2020 **(Special Guest)**.
242. 6th Students' Conference on Engineering and Systems (SCES - 2020), MNNIT Allahabad, July 10-12, 2020 **(Chief Guest)**.
243. Student Professional Awareness Activities Month IEEE Mar Athanasius College of Engineering Student Branch of Kerala Section, Sept 3, 2020 **(Chief Guest)**.
244. International Conference for Convergence in Engineering (ICCE 2020) , Netaji Subhash Engineering College, Kolkata, Sept 5-6, 2020 **(Guest of Honor)**.
245. International Newsletter Editors' Meetup 2020, IEEE Bangladesh Section, Sept 5, 2020 **(Chief Guest)**
246. IEEE Hyderabad Section Conference (HYDCON20202), IEEE Hyderabad Section, September 10, 2020 **(Guest of honor)**
247. 1st IEEE India Council Subsection Conference (INDISCON), Vizag Section, Gayatri Vidya Parisad College of Engineering, Vishakhapatnam, Oct 3-4, 2020 **(Guest of honor)**.
248. All Hyderabad Computer Society and Women in Engineering Virtual Congress 2020, 6 October 2020 **(Chief Guest)**.
249. IEEE Bangalore Humanitarian Technology Conference (B-HTC), BLDEA'S V.P. Dr. P.G.Halakatti College of Engineering and Technology, Vijayapur , Karnataka, Oct 8-10,2020 **(Chief Guest)**.
250. IEEE R10 (Asia Pacific) Panel of Conference Organizer (POCO), IEEE Madras Section, 10-11 October 2020 **(Chief Guest)**.
251. STC on Transition in Power Electronics towards Sustainable, Smart and Flexible Micro-Grids" October 19-23, 2020, NIT Delhi, **(Chief Guest)**.
252. International Conference on Advances and Applications of Artificial Intelligence and Machine Learning (ICAAAML) during 29th - 30th October'2020, Sharda University, Gr Noida **(Chief Guest)**
253. IEEE R10 (Asia Pacific) Panel of Conference Organizer (POCO), IEEE India Council, 31st October 2020 **(Chief Guest)**.
254. Bangalore Technology Conclave 2020, IEEE Bangalore Section, Nov 3-7, 2020 **(Guest of Honor)**.
255. IEEE Women in Engineering (WiE), International Leadership Symposium, Nov 6-8, 2020 **(Guest of Honor)**
256. International Conference on Renewable Energy (ICREN), Rome, Italy, November 25-27, 2020. **(Plenary Speaker)**
257. 7th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2020), MNNIT Allahabad, November 27-29, 2020 **(Guest of Honor)**.
258. 5th IAPR International Conference on Computer Vision and Image Processing (CVIP-2020). IIIT Allahabad, December 4-5, 2020 **(Guest of Honor)**.
259. 9th IEEE International Conference on System Modelling & Advancements in Research (SMART-2020), Faculty of Engineering & Computing Sciences (FOECS), Teerthanker Mahaveer University Moradabad, December 4-5, 2020 **(Chief Guest)**.

260. 3rd IEEE Pune Section International Conference (PuneCon2020), VIT Pune, Dec 16-18, 2020 **(Guest of Honor)**.
261. 11th World Renewable Energy Technology Congress & Expo, New Delhi, Dec 15-16, 2020 **(Keynote speaker)**.
262. 2nd IEEE International Conference on Advances in Computing, Communication Control and Networking (ICACCCN-2020), GCET Greater Noida 18th& 19th December- 2020 **(Chief Guest)**.
263. 2nd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC2020) December 17-18, 2020, Krishna Engineering College, Ghaziabad **(Chief Guest of Valedictory)**.
264. 6th Women in Engineering Conference on Electrical and Computer Engineering (WiECON-ECE), Bhuvneshwar Section, December 26-27, 2020 **(Guest of Honor)**.
265. 1st International Conference Power Electronics and Energy-2021, KIIT Bhubneshwar, Jan 2-3, 2021 **(Chief Guest)**.
266. 11th International Conference– CONFLUENCE’ 2021 on “Cloud Computing, Data Science & Engineering” at Amity University Uttar Pradesh, Noida Campus, January 28-29, 2021 **(Guest of Honor in Valedictory)**.
267. IEEE International Conference on Advance Computing and Innovative Technologies in Engineering Conference, 4-5 March 2021, GCET Greater Noida **(Chief Guest)**.
268. e-International Conference on "Advances in Renewable Energy and Electric-Vehicles"- (ICAREEV-2021), Sagar Institute of Research and Technology, Bhopal, 13-14 May 2021 **(Guest of Honor)**.
269. 2nd Electric Power and Renewable Energy Conference (EPREC-2021), NIT Jamshedpur, May 28-30, 2021 **(Chief Guest and Keynote Speaker)**.
270. IEEE Conference on Intelligent Technologies (CONIT- 2021), KLE Institute of Technology, Hubballi, Karnataka, June 25-26, 2021 **(Chief Guest)**.
271. 9th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2021), September 3-4, 2021, Amity University Noida **(Guest of honor)**.
272. International Conference on Smart Energy and Advancement in Power Technologies (ICSEAPT-2021), September 6-8, 2021, NIT Jamshedpur **(Guest of honor and Keynote speaker)**.
273. 4th International Conference Recent Developments in Control Automation and Power Engineering (RDCAPE), October 7-8, 2021, Amity University Noida **(Guest of honor)**.
274. IEEE 5th International Conference on Information Systems and Computer Networks (ISCON), 22nd - 23rd October 2021, GLA Mathura **(Guest of honor)**.
275. 8th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2021), Tulas Institute Dehradun, November 11-13, 2021 **(Chief Guest)**.
276. IEEE International Conference on Intelligent Systems, Smart and Green Technologies (ICISSGT – 2021), Vizag Section Vishakhapatnam, 13-14 November 2021, **(Guest of honor)**.
277. 2021 International Conference on Power System Technology (POWERCON21), Haikou, China, December 8-9,2021 **(Keynote speaker and Panelist)**.
278. International conference on control, automation, power and signal processing (CAPS-2021), IITDM Jabalpur, December 10-11,2021 **(Guest of Honor & Keynote speaker)**.
279. 10th IEEE Scopus Indexed International Conference on System Modelling & Advancement on Research Trends (SMART-2021), TMU Moradabad (India), Dec 10-11, 2021 **(Keynote speaker)**.
280. International conference on Intelligent Computing and Security: A Paradigm Shift (IICS-2021), G. L. Bajaj ITM, Greater Noida, India, 17th – 18th December 2021 **(Chief Guest)**.
281. 3rd IEEE International Conference on Advances in Computing, Communication Control and Networking (ICAC3N-21)”, GCET Greater Noida, 17th – 18th December 2021 **(Chief Guest)**.
282. First International Conference on Advances in Computing and Future Communication Technologies ICACFCT-2021, MIET Meerut, December 16-17, 2021 **(Keynote speaker)**.

283. 9th International Conference on Power System (ICPS 2021), IIT Kharagpur, December 16-18, 2021 (**Session chair**).
284. International Conference on Advance Computing and Ingenious Technologies in Engineering Science (ICACITES 2021), GCET Greater Noida, December 30-31, 2021(**Chief Guest**).
285. 2nd International Conference on Power Electronics & IoT Application in Renewable Energy and its Control (PARC), GLA Mathura, January 21-22, 2022, (**Guest of honor**).
286. 12th International Conference on Cloud Computing, Data Science & Engineering (CONFLUENCE 2022), Amity University Noida, January 27-28, 2022, (**Guest of Honor**).
287. 1st IEEE Delhi Section International Conference on Electrical, Electronics and Computer Engineering (DELCON2022), Delhi (online), February 12-13, 2022, (**Plenary Speaker**)
288. 2nd International Conference on Advance Computing and Innovative Technologies in Engineering, GCET Gr Noida, April 28-29, 2022 (**Chief Guest and Keynote speaker**).
289. 4th International Conference on Energy, Power and Environment (ICEPE-2022), NIT Meghalaya, April 29-May 1, 2022 (**Keynote Speaker**).
290. 11th international conference on Soft Computing for Problem Solving (SocProS 2022), IIT Mandi, 14 - 15 May 2022, (**Chief Guest in Valedictory**).
291. 3rd Electric Power and Renewable Energy Conference (EPREC-2022), NIT Jamshedpur, May 27-29, 2022 (**Chief Guest and Keynote speaker**).
292. 15th & 16th Uttarakhand State Science & Technology Congress (USSTC), GEU Dehradun, 22-24 June, 2022 (**Jury member and Lead Speaker**)
293. 1st International Conference on Sustainable Technology For Power And Energy Systems, NIT Srinagar, July 4-6, 2022 (**Chief Guest and Keynote speaker**).
294. 3rd Biennial International Conference on Future Learning Aspects of Mechanical Engineering (FLAME2022), Amity University, 3-5 August 2022 (**Chief Guest in Valedictory**).
295. International Conference on Computer Vision and Machine Intelligence (CVMI), 12-13 August 2022 • IIIT Allahabad, Prayagraj, INDIA (**Chief Guest in Valedictory**).
296. 2022 IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT 2022), India Habitant Center, New Delhi, September 23-25, 2022 (**Guest of honor in Inauguration**).
297. All India Student – Young Professionals – Women in Engineering Congress (AISYWC), COE Pune, October 7-9, 2022 (**Panelist**).
298. 44th All India Accounting Conference and International Seminar on Accounting Education and Accounting Research on 29th -30th October, 2022 Jiwaji Univ, Gwalior (**Keynote speaker**).
299. 6th Conference on Information and Communication Technology (CICT), ABV-IIITM Gwalior, Nov 18-20, 2022 (**Chief Patron**).
300. IEEE North Karnataka Subsection International Conference “NKCon-2022”, B.L.D.E.A V.P. Dr. P.G. Halakatti College of Engineering and Technology, Vijayapur, during 20-21, November 2022 (**Chief Guest**).
301. 10th Power India International Conference (PIICON), NIT Delhi, November 25-26, 2022 (**Keynote speaker and Chief Guest in Valedictory**).
302. 9th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2022), IIIT Allahabad, December 2-4, 2022 (**Chief Guest, keynote speaker**).
303. Third International Conference on “Communication, Networks & Computing (CNC-2022)”, December 08-10, 2022, ITM University Gwalior (**Guest of Honor**).
304. 11th International Conference on System Modeling & Advancement in Research Trends (SMART) on 16-17 December 2022, TMU Moradabad (**Chief Guest Day-2**).
305. 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N-22), GCET, Gr Noida, Dec 16-17, 2022 (**Chief Guest**).
306. National Power System Conference IIT Delhi , Dec 17-19, 2022 (**Panelist**)
307. International Conference on Communication, Security and Artificial Intelligence (ICCSAI-2022), Galgotias University, Greater Noida, December 23-24, 2022 (**Chief Guest**).

308. 2nd International Conference on Innovative Sustainable Computational Technologies (CISCT-2022), Graphic Era University, 23rd - 24th December 2022 (**Keynote speaker**).
309. 13th International Conference on Cloud Computing, Data Science & Engineering, (CONFLUENCE 23), Amity University, Nodia, January 19-20, 2023 (**Guest of Honor**)
310. 2nd International Conference for Advancement in Technology 2023 (ICONAT), at Goa by RIT Sangli, January 24-26, 2023 (**Guest of Honor**).
311. Multi-disciplinary International Congress on Industry 5.0 and Paradigm Shift: Emerging Challenges, SVVV Indore, 1-3 February 2023 (**Plenary Speaker**).
312. NIELIT's International Conference on Communication, Electronics and Digital Technologies (NICE-DT); 10-11 February 2023, New Delhi (**Guest of Honor**).
313. International Conference on Artificial Intelligence, Blockchain, Computing and Security (ICABCS-2023), School of Computing Science and Engineering, Galgotias University, India during 24-25 February 2023 (**Chief Guest**).
314. International Conference on Microwave Antenna and Communication (MAC2023), MNNIT Allahabad, Université de Sherbrooke, Canada & Benedict College, Columbia, USA, March 24-26, 2023 (**Chief Guest**).
315. 2nd International Conference on Smart Grid Energy Systems and Control (SGESC-2023), NIT Kurukshetra, April 07-09, 2023 (**Keynote speaker and Chief Guest in Vaedictory**).

Dr SN Singh

April 10, 2023