

RESUME OF DR. S. N. SINGH



1. Name : **Dr. S. N. Singh**
2. Father's Name : Late Shri Kamla Singh
3. Date of Birth : 15th January 1956
4. Postal Address : Senior Scientific Officer,
Alternate Hydro Energy Centre,
Indian Institute of Technology,
Roorkee-247 667, (Uttarakhand), India
Tel. No. (01332)-285842 (O), 285831 (R),
E-mail: nishafah@iitr.ac.in

5. Educational Qualifications :

| S. No. | Examination | Year | Board/Univ. | Subject/Specialisation |
|--------|-------------|------|-------------------------|------------------------|
| (i) | Ph.D | 2014 | I I T Roorkee | Electrical Engineering |
| (ii) | M.E. | 1982 | University of Roorkee | Electrical Engineering |
| (iii) | B.E. | 1978 | University of Gorakhpur | Electrical Engineering |

6. Teaching & Research Experience: 34 Years

Course taught/being taught—Hydro Electrical I Equipment (AHN-514), Instrumentation for Small Hydro Power Station Renewable Energy Resources (AHN-526), Rural Electrical Energy System Planning and Design (AHN-528), Conservation and Management (AHN-542), Bridge Course (AH-519), Energy Resources and Conservation (CH- 201) and Institute Elective-Small Hydro Power Development (IAH-301)

7. Research area : **Small Hydro Power**
- Hydro Generator design, control and protection
 - Optimal selection of SHP equipments
- Solar Energy**
- SPV Monitoring systems
 - MPPT of SPV
 - Grid connected PV systems
- Power electronics**
- Transformer-less Inverters for grid-tied SPV.
 - Inverters Topologies.
 - DC-DC converter, Sepic converter.
8. Research Guidance :
- Ph.D Thesis guided :
- Submitted – 01,
 - In progress – 03
- (Details at Annexure-I)**
- M.E./M.Tech. Thesis guided:
- Completed – 67,
 - In progress – 01
- (Details at Annexure-II)**
- M.E./M.Tech. Projects/Tour reports guided:
- Completed – 45
9. Research Papers Published :
- Journals- 31
 - Symposium/Conferences/Seminars - 35
 - Special publications- Manuals (1 No.)
- (Details at Annexure-III)**
10. Consultancy and Sponsored : Consultancy Projects - 60
11. International Projects :
- UNDP-GEF Hilly Hydro project, R&M DPR with Canada,
 - Capacity Building for SHP – Combodia,

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INSTITUTE AND DEPARTMENT LEVEL RESPONSIBILITIES

Institute Level :

| | | |
|--------|---|-----------------|
| (i) | Staff advisor Kho-Kho | 2005-2006 |
| (ii) | Staff advisor Gymnastics | 2006-2007 |
| (iii) | Staff advisor gardening | 2010-2012 |
| (iv) | Member of Central Library Committee | 2012 – continue |
| (v) | Member of Advisory committee for department of Continuing Education | 2010 – continue |
| (vi) | Staff Advisor Hobbies club | 2012-2014 |
| (vii) | Senate Member (as Warden Rajendra Bhawan) | 2003-2004 |
| (viii) | Warden Rajendra Bhawan | 2002-2006 |
| (ix) | Member of UG Board | 2002-2004 |
| (x) | Member of Central Library Committee | 2002-2004 |

Deptt./Centre's Level :

| | | |
|-------|------------------------|--|
| (i) | OC Library | 2015 – continue |
| (ii) | OC Administration | 2001 to 2002 and 2012 – continue |
| (iii) | OC Electrical Lab | 2001 – continue |
| (iv) | OC Turbine testing lab | 2012-2016 |
| (v) | OC Instrumentation Lab | 2004-2016 |
| (vi) | OC Hydro-mechanical | 2003-2016 |

13 Membership :

- (i) Indian Water Resource Society, Roorkee, Life Member
- (ii) Indian Society for Technical Education (ISTE), New Del/hi. , Life Member.
- (iii) Alumni Association, IIT Roorkee, Life Member

14 International Visits :

UK (1996), Germany (1996), Switzerland (1996), Sri Lanka (1999), Norway (2001) and China (2007).

National :

Arunachal Pradesh, WB,Bihar, Sikkim, Gujarat, Maharastra, Madhya Pradesh, Andhra Pradesh., J&K, HP, Uttarakhand, Jharkhand, Punjab, Haryana and Rajasthan

Annexure-I

DETAILS OF Ph.D. THESIS SUPERVISED/BEING SUPERVISED

| S.No | Ph D. | Year of Registration | Name of Scholar | Status |
|------|--|----------------------|-----------------|------------------------|
| 1. | Modelling and Simulation of SPV System for Improved Power Output Using DC-DC | 2013 | Dileep. G | Submitted on 23.3.2017 |

Converter

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|----|---|------|-------------------------|-------------|
| 2. | Detection and Classification of Power Quality Disturbances | 2014 | Utkarsh Singh | In Progress |
| 3. | Development of Online Monitoring System for a Grid Connected Solar Photovoltaic Plant | 2014 | Siva Ramakrishna Madeti | In Progress |
| 4. | Analysis of single phase transformerless inverter fed grid connected SPV system | 2014 | Zameer Ahmad | In Progress |

Annexure-II

DETAILS OF M.E. / M.TECH. DISSERTATION SUPERVISED/BEING SUPERVISED

| S. No. | Title of Dissertation | Year of award | Name of student |
|---------------|---|----------------------|------------------------|
| 1. | Design of earthing system | 2001 | Brijesh Kumar |
| 2. | Design and development of a controller for single phase Induction Generator | 2002 | Arun Kant |
| 3. | Performance analysis of self regulated single phase generator using a 3-phase machine | 2003 | Shivendra Singh |
| 4. | Analysis of peak power tracker for grid connected VSCF power conversion scheme. | 2004 | Nadim Ahmad |
| 5. | Design and development of single phase electronic load controller for micro hydro power plant | 2004 | Surendra Pratap Singh |
| 6. | Parallel operation of grid connected permanent magnet synchronous generators for small hydro plants | 2005 | Naveen Gautam |
| 7. | Modern protection and control equipments used in SHP plants | 2005 | Sateesh Kumar Kolluri |
| 8. | Performance and design of transmission and distribution system in rural area | 2005 | Rakesh Sharma |
| 9. | Design, testing and sensitivity analysis of Electronic Load Controller | 2006 | Santosh Singh |

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|-----|--|------|--------------------------|
| 10. | Power quality improvement of grid connected SHP station | 2006 | Pradipta Chakraborty |
| 11. | Energy conservation in sugar industry | 2006 | Vinod Kumar |
| 12. | Design and development of load controller for SHP using fuzzy logic | 2006 | Gaurav Bhardwaj |
| 13. | Wireless monitoring of SHP station | 2007 | Santanu Maili |
| 14. | Micro power plant based voltage control of standalone Induction generator | 2007 | Rishi Raj Meena |
| 15. | Harmonics and voltage stability analysis in power systems using FACTS by thyristor controlled. | 2007 | Rudra Rameshwar |
| 16. | Automation of small hydro power station | 2007 | Raju Gupta |
| 17. | Optimized design of mini grid for SHPs | 2008 | Ajit Singh |
| 18. | DFIG control for wind power generation | 2008 | Sanjay Kumar Yadav |
| 19. | Rural electrification expansion under CDM | 2008 | Anubhuti Bansal |
| 20. | Optimized design of grounding of hydro power station | 2008 | Nitesh Kumar Shrivastava |
| 21. | Transient analysis of a grid based DFIG variable speed hydro turbine | 2009 | Santanu Kumar Pradhan |
| 22. | GIS based reconfiguration of distribution system | 2009 | Venkata Ramasita Balusu |
| 23. | ANN based governing and controlling of SHP | 2009 | Challa Mohan Krishna |
| 24. | Remote monitoring of SHP stations | 2009 | Neha Adhikari |
| 25. | Development of an integrated data acquisition system for hydro turbine generator unit using lab view | 2010 | Rajkumar Viral |
| 26. | Development of distribution system for village electrification | 2010 | Ravindhar Bandhu |
| 27. | Design and testing of electronic load controller for hydro power plants | 2010 | Shalini Singh |
| 28. | Wireless monitoring of remote SHP station | 2010 | Satya Prakash Saraswat |
| 29. | Improved design of earthing system | 2011 | Mehta ArjunSingh Ashok |
| 30. | Steady state analysis of electronic load | 2011 | Dibeyendu Das |

controller for 3 phase alternator

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|-----|---|------|----------------------|
| 31. | Simulation of Doubly Fed Induction Generators in SHPs | 2011 | Mon Prakash Upadhyay |
| 32. | Analysis of grid interconnection problems for SHP plants | 2011 | Subhash Yadav |
| 33. | Development of ELC for micro hydro power plants | 2012 | Ankita Gupta |
| 34. | Peak power point tracker of wind turbine driven induction generator connected with grid | 2012 | Salman Ahmad |
| 35. | Voltage control of self excited induction generator | 2012 | Jasmine Hansda |
| 36. | Modeling and Simulation of Doubly fed Induction Generator coupled with wind Turbine | 2013 | Ankit Gupta |
| 37. | Steady state analysis & stability assessment of DFIG used in Renewable energy | 2013 | Indubhusan Kumar |
| 38. | Transient analysis of DFIG coupled with wind mill | 2013 | Ranjana Sharma |
| 39. | Performance evaluation of mini grid used in rural area with renewable energy | 2013 | Rohit Kumar Verma |
| 40. | Comprehensive study of community managed mini grid | 2013 | Sanjeev Pokhrel |
| 41. | Control of grid connected SPV systems | 2013 | Zameer Ahmad |
| 42. | Sizing of SPV System for MBEYA University Science and Technology (MUST) Tanzania | 2014 | Fadhili Omari Cheo |
| 43. | Web- Based Remote Monitoring Scheme for Hydro- Turbine Generator Unit | 2014 | Aritra Saha |
| 44. | Improvement of Systems Stability for three phase self excited Induction Generator through Static Synchronous Series Compensator Using MatLab/Simulink | 2014 | Shubham Nayal |
| 45. | Power Quality Improvement in Rural Distribution Network | 2014 | Jatin Singh Saini |
| 46. | Power flow Control Using Higher Level Inverter based Unified Power Flow Controller | 2014 | Dyanand Kumar |
| 47. | Smart Grid Integration of Solar Energy System and Control | 2015 | Deepak Kumar Sharma |
| 48. | Power Quality Improvement of a Grid Connected Wind Energy Conversion System using Statcom | 2015 | Anand Kumar Jaiswal |
| 49. | Analysis of Electronic Load Controller for Three Phase Synchronous Generator Using Fuzzy Logic | 2015 | Anurag Yadav |
| 50. | Modeling, Simulation and Performance Study of Three Phase Self Excited Induction Generator using Matlab Graphical User | 2015 | Appurva Appan |

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|-----|--|-----------------------|----------------------|
| 51. | Interface Sizing of SPV System for Hyderabad Railway Station | 2015 | Budigapaka Nagraju |
| 52. | Direct Torque Control of Induction Motor in the Photovoltaic Pumping | 2015 | Sachin Kumar |
| 53. | Fault Location for Power Transmission Line using Travelling Wave Method | 2015 | Vineet Kumar Rana |
| 54. | Performance Evaluation of Livelihood Activities in Bagheshwar District, Uttarakhand | 2016 | Prashant Bhardwaj |
| 55. | Power factor improvement in distribution system | 2016 | Ahmad Nazir Jahesh |
| 56. | Power Loss reduction in distribution system | 2016 | Aung Tun Lin |
| 57. | Simulation and Modeling of stand Alone Induction Generator In Small Hydropower Station | 2016 | Dhukpuou A. Makoi |
| 58. | Reevaluating the Energy issues of West Africa | 2016 | Edward E. Blankson |
| 59. | Design and Performance analysis of stand alone water pumping system for remote area | 2016 | Gajender |
| 60. | Smart Automatic Design of Solar-Grid connected system | 2016 | Pallavi Garg |
| 61. | Development of efficient Pump as Turbine(PAT") system for SHP Station | 2016 | Vaibhav Saxena |
| 62. | Development of Stand Alone SPV System for Rural House Holds. | 2017 | Kapil Rajput |
| 63. | Techno-Economic Analysis of Penstocks for Small Hydro Power Projects. | 2017 | Mayank Singh |
| 64. | Design and simulation of solar- thermal cooling system for building. | 2017 | Satyapriya |
| 65. | Performance analysis of Variable Speed Constant Frequency induction Generator | 2017 | Sumit Kumar Singh |
| 66. | Policy Development of Renewable Energy in South Sudan | 2017 | Victoria A.B. Ajongo |
| 67. | Estimation of Electrical Energy Generation From Municipal Solid Waste of Roorkee City | 2017 | Rahul Saini |
| 68. | Estimation of Electrical Energy Generation From Municipal Solid Waste of Roorkee City | 2017 (In progress) | Noopur |

Annexure-III

DETAILS OF RESEARCH PUBLICATIONS

A. PAPERS PUBLISHED IN RESEARCH JOURNALS

- | S.
No. | Publications |
|-----------|--|
| 1. | Gautam, Navin, Singh S.N. , Rentschler, A, Schneider, T and Binder, A, “Modeling and Analysis of Parallel Connected Permanent Magnet Synchronous Generators in a Small Hydropower Plant,” Institution of Engineers, Vol 88, June 2007. |
| 2. | Singh S. N. , .Sharma M.P and Singh Ajit “Design of Mini Grid for SHP Plants” J. of Hydro Nepal –Journal of Water, Energy and Environment, Issue No. 7, July 2010, pp 38-47. |
| 3. | Singh G. K, Singh S. N. and Saini R. P. “Steady -State Modeling and Analysis of Grid- connectec six- phase Induction Generator for Renewable Energy Generation” Journal of Advanced Materials: Research Vols.516-517(2012) pp 645-659 May 2012. |
| 4. | Arjunsingh A. Mehta, S. N. Singh , M.K.Singhal, “Earthing System Design for Small Hydropower (SHP) Station – A Review”, International Journal of Engineering and Technology, Vol. 4 No. 3,pp 275-278, June 2012. |
| 5. | Zameer Ahemad and Singh S. N. “Extraction of the Internal Parameters Solar Photovoltaic Module by Developing Matlab/Simulink Based Model.” International Journal of Applied Engineering Research, ISSN 0973- 4562 Vol.7 No.11 (2012) pp 1265-1269. |
| 6. | Swarnkar Nitin Kumar and, Singh S. N. “ Analysis on electrical energy consumption of agricultural sector in Uttarakhand” <i>International Journal of Emerging Technology and Advanced Engineering</i> Volume 3, Special Issue 3: ICERTSD 2013, Feb 2013, pages 344-347. |

7. Pokhrel Sanjeev, Singal S.K. and **Singh S. N.** “Comprehensive study of community managed mini grid” *International Journal of Emerging Technology and Advanced Engineering Volume 3, Special Issue 3: ICERTSD 2013, Feb 2013, pages 514-520*
8. Zameer Ahemad and **Singh S. N.** “Modeling and Control of Grid Connected Photovoltaic System- A Review” *International Journal of Emerging Technology and Advanced Engineering Volume 3, Issue 3, March 2013 pp 40-49.*
9. Rohit Kumar Verma and **Singh S. N.** “Load Flow Analysis of Mini-Grid Connected Load and its Compensation” *International Journal of Emerging Technology and Advanced Engineering Volume 3, Issue 3, March 2013) pp 505 – 509.*
10. Rohit Kumar Verma and **Singh S. N** “A REVIEW OF MINI-GRID USED FOR ELECTRIFICATION IN RURAL AREA” *American International Journal of Research in Science Technology, Engineering & Mathematics, 3(2), June-August, 2013, pp. 140-144*
11. R.Sharma and **Singh S. N.** “Steady State Characteristics of Doubly fed Induction Machine” *International Journal of Applied Engineering Research, vol.8 No. 4, 2013, pp 84-89.*
12. Gupta Ankit, **Singh S. N.** and Khatod D.K. “ Modeling and Simulation of Doubly Fed Induction Generator Coupled With Wind Turbine-An Overview” *Journal of Engineering, Computers & Applied Sciences (JEC&AS) ISSN No: 2319-5606 Volume 2, No.8,pp 45-54, August 2013*
13. Zameer Ahemad and **Singh S. N.** “Design and Generation of Control Pulses by Microcontroller Based Controller for Grid Connected Solar Photovoltaic System.” *International Journal of Engineering Research & Technology (IJERT), ISSN 2278- 0181 Vol.2, Issue 10, October – 2013.*
14. **Singh, S. N.** ,Gupta, A., Khatod D.K., “Modeling and Simulation of Doubly Fed Induction Generator Coupled With Wind Turbine-An Overview” *Journal of Engineering Computers & Applied Sciences, vol.2, no. 8, pp 45-54, August 2013.*
15. **Singh, S. N.**,Gupta, A. ,Khatod D.K. “Modelling and Simulation of Doubly-Fed Induction Generator Coupled With Wind Turbine”*American International Journal of Research in Science,*

16. Zameer Ahemad and **Singh S. N.** “Microcontroller Based Advanced Triggering Circuit for Converters/Inverters” International Journal of Engineering Science Research & Technology (IJERT), ISSN 2277- 9655 Vol.3(1), Issue 10, January – 2014.
17. Saini Jatin Singh, Sharma M. P. and **Singh S. N.** “ Voltage profile Improvement of Rural Distribution Network by Conductor Replacement ” International Electrical Engineering Journal (IEEJ), Vol. 5 (2014) No. 7. pp. 1490- 1494.
18. Behera Pallavi and **Singh S. N.** “ A review of incremental conductance method for mppt tracking of wind energy conversion system” International Journal of Advance Research In Science And Engineering IJARSE, Vol. No.4, Special Issue (02), February 2015 pp 213 -223 ISSN-2319-8354(E)
19. Appan Appurva, **Singh S. N.** and Kavita Yadav “ A Novel MATLAB GUI Comparative Technique to Evaluate Generated Frequency and Saturated Magnetizing Reactance of A3- ϕ SEIG” International Journal of Emerging Technology and Advanced Engineering Journal, Volume 5, Issue 2, pp 233-239, February 2015
20. Yadav Anurag , **Singh S. N.** and Appan Appurva “ A Fuzzy Logic based Electronic Load Controller for Three Phase Alternator” International Journal of Emerging Technology and Advanced Engineering Journal, Volume 5, Issue 3, pp 514-520, March 2015
21. G. Dileep and **Singh S. N.** “ Maximum Power point tracking of solar photovoltaic system using modified perturbation and observation method” Renewable and Sustainable Energy reviews, 50, 2015, 109 -129.
22. Appan Appurva, **Singh S. N.** and Kavita Yadav “ A Novel MATLAB GUI based performance analysis of a 3- ϕ SEIG” International Journal of Emerging Technology and Advanced Engineering Journal, Volume 5, Issue 5, pp , May 2015
23. Aung Tun Lin **Singh S. N.** “ Management of Power Loss Reduction Plan for Distribution System in Yangon Area, Myanmar” International Journal of Advance Research In Science And Engineering IJARSE, Vol. No.4, Special Issue (01), September 2015 pp 542 -553 ISSN-2319-8354.

24. Garg Pallavi, Jain Kamal, **Singh S. N.** “ Smart Energy Distribution and Control System Integration ” International Journal of Advance Research In Science And Engineering , Vol. No.5, Issue No. 05, May 2016, pp 225 -233.
25. Singh Utkarsh, and **Singh S. N.** “Time–frequency–scale transform for analysis of PQ disturbances ” IET Science, Measurement & Technology The Institution of Engineering and Technology, Dec. 2016
26. Dileep G and **Singh S. N.** “ Application of computing techniques for maximum Power point tracking of SPV system.” Renewable and Sustainable Energy reviews,141 (2017) 5, 182-201.
27. Singh Utkarsh, and **Singh S. N.** “Application of fractional Fourier transform for classification of power quality disturbances” IET Science, Measurement & Technology The Institution of Engineering and Technology , vol. 11,issue 1, pp 67-76, Jan. 2017
28. Madeti SivaRamakrishna and **Singh S.N.** “Monitoring system for photovoltaic plants : Areview ” Renewable and Sustainable Energy reviews,67, (2017), 1180-1207.
29. Dileep, G., **Singh S. N.**, (2017). Selection of non-isolated DC-DC converters for solar photovoltaic system. Renewable and Sustainable Energy Reviews. 76, 1230–1247.
30. Dileep, G., **Singh S. N.**, Singh, G.K., (2017). Modeling, design and stability analysis of an improved SEPIC converter for renewable energy systems. International Journal of Electronics. (accepted)
31. Zameer Ahmad, **S. N. Singh**, Comparative analysis of single phase transformerless inverter topologies for grid connected PV system, Solar Energy, Volume 149, June 2017, Pages 245-271, ISSN 0038-092X, <http://doi.org/10.1016/j.solener.2017.03.080>.

B. PAPERS PUBLISHED IN SYMPOSIUM/CONFERENCES/SEMINARS

- | S.
No. | Publications |
|-----------|---|
| 1. | Arun Kumar, S. N. Singh and S.K. Singal, "Sadani Mini Hydro Electric Project- A Case Study ", Seminar on Renewable Sources of Energy, Potential, Prospects and Progress in retrospective, Ranchi, Bihar, India, March 11-12,1994. |
| 2. | Singh, Surendra Pratap and Singh S. N. , "Cost Effective Governing of Hydropower Plant by using Electronic Load Controller," First International Conference on Renewable Energy, PP DE37-De50 New Delhi, Oct. 06-08, 2004. |
| 3. | Nadim, Ahmad and Singh S. N. , "Analysis of Variable Speed Constant Frequency of Generator," First International Conference on Renewable Energy, pp PG 125-133, New Delhi, Oct 06-08, 2004 |
| 4. | Singh S. N. , Srivastava, S.P. and Kumar, Pramod, "Steady-state Analysis of a Grid Connected Commutatorless Generator," National Power System Conference (NPSC), Vol I, pp 166-171, IIT Chennai, Dec 27-31, 2004. |
| 5. | Kolluri, Satish Kumar and Singh S. N. , "Modern Protection and Control Equipment in Small Hydropower Plants for Smooth Power Evacuation," In proceeding of 6 th International Conference on Development of Hydropower a Major Source of Renewable Energy, Kathmandu, Nepal, (PP VII-23-37), June 07-09, 2005. |
| 6. | Kumar, Vinod, Singh S. N. and Saini, R.P., "Energy Conservation in Sugar Industry," Proceedings National Conference on Energy Alternatives for Rural Sector, pp 157-167, India International Central Max Mueller Marg, New Delhi, April 27-28, 2006. |
| 7. | Bhardwaj Gaurav, and Singh S. N. "Fuzzy Logic Based Operation of Spillway Gares of Reservoirs During floods of Small Hydropower Station" Proceedings National Conference on |

Energy Alternatives for Rural Sector,, India International Centre Max Mueller Marg, New Delhi, pp 83-91, April 27 – 28, 2006

8. Gupta Raju, **Singh S. N.** and Singal S.K., , “Automation of Small Hydro Power Station,” International Conference on Small Hydropower, Kandy, Sri Lanka, 41-50, October 22- 24, 2007.
9. Gupta Raju, **Singh S. N.** and Singal, S.K. “PLC based Monitoring & Automation of SHP Station,” International Conference on Advances in Energy Research, IIT Bombay, Mumbai, India, 342-348, December 22-24, 2007
10. Rudra Rameshwar, **Singh S. N.**, “Harmonics and Voltage Stability Analysis in Power Systems Using FACTS by Thyristor Controlled Reactor” in International Conference on Advances in Energy Research, IIT Bombay, Mumbai, India, 543 – 549, December 22-24, 2007.
11. Bansal Anubhuti, **Singh S. N.** and Saini R P “Sensorless Maximum Peak Power Tracking of Wind Turbine System” First National Conference on Engineering Trends and Recent Advances in Electrical Engineering and Renewable Energy (NCEEERE-2008), Manipal Institute of Technology, Sikkim Dec. 22-24, 2008.
12. Kumar Anurag and **Singh S. N.** “Energy Conservation through Energy Efficient Lighting System with CDM benefits” First National Conference on Engineering Trends and Recent Advances in Electrical Engineering and Renewable Energy (NCEEERE-2008), Manipal Institute of Technology, Sikkim Dec. 22-24, 2008.
13. Yadav Sanjai Kumar, **Singh S. N.** and Saini R P “Doubly Fed Induction Generator Control for Wind Power Generation” First National Conference on Engineering Trends and Recent Advances in Electrical Engineering and Renewable Energy (NCEEERE-2008), Manipal Institute of Technology, Sikkim Dec. 22-24, 2008.
14. **Singh S. N.**, Singhal M.K. and Banothu Ravindhar “Village Electrification and Distribution System” Proceedings of International Conference on Advances in Renewable Energy 2010), Bhopal (Madhya Pradesh), pp 48-54, June 24-26, 2010

15. Viral Rajkumar and **Singh S. N.**, “Development of an Integrated Data Acquisition System for Pump as turbine generator unit” Proceedings of International Conference on Advances in Renewable Energy 2010), Bhopal (Madhya Pradesh), ICARE PP-334-341, June 24-26, 2010.
16. Viral Rajkumar and **Singh S. N.**, “Remote Data Acquisition system for hydro turbine unit for SHP” International conference on Electrical power and energy systems, MANIT Bhopal, M.P. Aug 26-28, 2010.
17. Viral Rajkumar and **Singh S. N.**, “Development of Labview Based Integrated Data Aquifer System for Pump as Turbine generator with performance evaluation, International Conference on Hydraulic Efficiency Measurement (IGHM 2010), October 21-23, 2010.
18. Dixit Priyanka, Pandey Rahul and **Singh S. N.** “Preliminary planning of cost effective mini grid for Remote Hilly Areas Geographic Information System” International Conference on Renewable energy, Jaipur, January 17-21 ,2011.
19. Arjunsingh A. Mehta, **S. N. Singh**, M.K.Singhal, “Earthing System Design for Small Hydropower (SHP) Station – A Review”, International Conference on Product Development and Renewable Energy Resources (ICPDRE 2011), IEEE, Chennai, pp. 22-25, Feb 19-20 2011.
20. Kulkarni, Praveenkumar, **Singh S. N.**, Feasibility of wind energy project in north Karnataka International Conference on Thermal Energy and Environment (INCOTEE- 2011), pp 1237 1240, March 24-26, 2011.
21. Abbas Ali, **Singh S. N.**, Design Developments of Cross Flow Turbine. International Conference on Thermal Energy and Environment (INCOTEE-2011) pp1750-1754, March 24-26, 2011.
22. Upadhyay M. P. and **Singh S. N.**”Simulation of Doubly fed induction generator used in small hydro plants” “National conference on sustainable development in energy sector,” University of Petroleum & Energy Studies, Dehradun, ,pp13-13, April 8-9,2011

23. Upadhyay M. P. and **Singh S. N.** "Simulation and vector control of doubly fed induction generator for wind energy." International Conference on Emerging Trend in Engineering and Technology (IETET-2011)", Geeta Institute of Management and Technology (GIMT) Kaninla Kurukshetra Harayana ,ISSN 0973-4562 vol.6,No.18, pp 2168-2171,Oct. 20-22,2011.

24. Ahmad S. and **Singh S. N.** "Review of MPPT Control methods in Wind Energy Conversion Systems" , International Conference on Trend in Engineering & Technology, College of Engineering ,Teerthankar Mahaveer University Moradabad-April 6-7, 2012.

25. G.K Singh, **S. N. Singh**, R. P. Saini, "performance analysis of a grid connected six phase induction generator for renewable energy generation" conference on sustainable development of energy, water and environment systems, july-2012

26. Aritra Saha and **Singh S. N.** "Control Strategy of SHP Station using Supervisory Control and Data Acquisition (SCADA) System- A Review" , National Conference on Globalized Leading Edge Technologies in Engineering GLETE- 2013, Department of Electronics and Communication , Eshan College of Engineering , Farah, Mathura, Nov. 15 – 15, 2013.

27. Dileep. G and **Singh S. N.** " Modified Perturb and Observe Maximum Power point tracking Algorithm of solar photovoltaic system " Proceeding of the International Seminar on Renewable and Sustainable Development, Royal University of Bhutan, Thimphu, June 15-17,2015,pp 1-6.

28. Zameer Ahmad, Siva Madeti, **S. N. Singh** "Development of a LabView model for estimation of solar radiation on tilted surface and maximum power generation", 39th NSC-2015 IEEE conference.

29. Zameer Ahmad, **S. N. Singh**, "Droop Control Strategies of Conventional Power System Versus Micro grid Based Power Systems – A Review 7th IEEE International conference on Computational Intelligence and Communication Networks, pp 152,Dec., 2015.

30. Aung Tun Lin, **Singh S. N.** “Power Loss Reduction and Additional Benefits Through Capacitor Bank Placement to Distribution Transformers in the Industrial Area” Proceeding of International Conference on Steel, Power and Construction , O.P. Jindal University, Raigarh, March 17-19, 2016.
- 31.
- Dileep, G., **Singh S. N.**, Design of a PID Controllers for an improved SEPIC converter for SPV system. International Congress on Engineering and Technology (ICET-16), Goa.
32. Dileep, G., **Singh S. N.**, High Voltage Gain Single Switch Coupled Inductor Boost Converter for Photovoltaic Generation System. International conference on emerging trends in Engineering and Technology, ICET – Bengaluru- 2016.
33. Dileep. G and **Singh S. N.** “An improved particle swarm optimization based maximum power point tracking algorithm for SPV system” Proceedings of IRF international conference. 02nd April, 2017 at Goa, pp 1-5.
34. Singh, U., **Singh S. N.** "Power Quality Analysis via Fractional Fourier transform", International Conference on Renewable Energies and Power Quality (ICREPQ'17), Malaga, Spain, 4-6 Apr. 2017, pp. 1-6.
35. Siva Madeti, **S. N. Singh**, “Comparative analysis of solar photovoltaic monitoring systems”, International conference on functional materials, characterization, solid state physics, power, thermal and combustion energy, issue-II, (FCSPTC)- 2017, Eluru, Andhra Pradesh, India, 7&8 Apr. 2017, pp. 335-346.