Research/Journals & Conferences

Journals	
Year	**Details**
2021	1. Prakash Dwivedi, Sandeep Pandey, "Tuning Rules: Graphical Analysis & Experimental Validation of a Simplified Fractional Order Controller for a class of open loop unstable systems", Asian Journal of Control, Accepted, 2021, Wiley (SCI-E, Impact factor: 2.779)."
	2. Ankit Uniyal, Saumendra Sarangi and Mahiraj Singh Rawat, A novel strategy for Voltage and Frequency Regulation in high RE penetrated Microgrids, Arabian Journal for Science and Engineering, Springer, 2021. (SCI-E)
	3. Gupta, TN, Singh, B, Kewat, S. Robust control for seamless operation of wind-BES microgrid. Int Trans Electr Energ Syst. 2021;e12838. https://doi.org/10.1002/2050-7038.12838.
	4. T. N. Gupta, B. Singh and S. B. Q. NAQVI,"Multi-Objective Control of Solar PV-BES Microgrid", Journal of The Institution of Engineers (India): Series B (DOI: 10.1007/s40031-021-00598-2)-2021.
	5. Ankit Uniyal and Saumendra Sarangi, "Optimal network reconfiguration and DG allocation using adaptive modified optimization algorithm considering probabilistic load flow', Electric Power Systems Research, Vol. 192, 106909, March 2021.
2020	1. Mahiraj Singh Rawat and Shelly Vadhera, Probabilistic Steady State Voltage Stability Assessment Method for Correlated Wind Energy and Solar PV Integrated Power Systems, Energy Technology December 2020 (SCI-E). (Wiley-VCH)
	2. Suryanarayana Gangolu., and Saumendra Sarangi(2020). A novel complex current ratio-based technique for transmission line protection. Protection and control of modern power systems,5,1-9. (Springer)
	3. Gupta, TN, Singh, B. Single-phase wind-BES microgrid with seamless transition capability. IET Power Electronics. 2020; 1– 13. https://doi.org/10.1049/pel2.12035
	4. T. N. Gupta, B. Singh and S. B. Q. NAQVI, "Performance Evaluation of Single-Phase PV-BES Based Microgrid with Seamless Transition Capability," IEEE Transactions on Industrial Electronics (Early Access)-2020.
	5. T. N. Gupta, S. Murshid and B. Singh, "Improving power quality of single phase utility grid connectwd to win-PV system using multilayer-frequency adaptive fundamental signal extractor," IET Renewable Power Generation, Volume 14, Issue 12, September 2020, p. 2126 - 2134.
	6. Rohit Kumar and Mukesh K. Pathak ,"Distributed droop control of dc microgrid for improved voltage regulation and current sharing", IET Renewable Power Generation, Volume 14, Issue 13, 05 October 2020, p. 2499 – 2506.
2019	1. Sandeep Pandey, Varun Dorula, Prakash Dwivedi, and Anjali Junghare, "Introduction and realization of four fractional order sliding mode controllers for non-linear open loop unstable system: A magnetic levitation study case", Nonlinear Dynamics, Vol. 98 (1), pp. 601-621, 2019, Springer (SCI-E, Impact factor: 4.604)."
	2. Mahiraj Singh Rawat and Shelly Vadhera, A comprehensive review on impact of wind and solar photovoltaic energy sources on voltage stability of power grid, Journal of Engineering Research, Vol. 7 No. 4, pp. 178-202, December 2019 (SCI-E). (Springer-Global Science Journals).
	3. Mahiraj Singh Rawat and Shelly Vadhera, Voltage stability maximization based optimal network reconfiguration in distribution networks using integrated particle swarm optimization for marine power application, Indian Journal of Geo Marine Sciences, vol. 48, no. 12, pp. 1949-1956, Dec 2019.

	4. Mahiraj Singh Rawat and Shelly Vadhera, Probabilistic Approach to Determine Penetration of Hybrid Renewable DGs in Distribution Network Based on Voltage Stability Index, Arabian Journal for Science and Engineering, vol. 45, pp. 1473-1498, July 2019. (Springer) DOI: 10.1007/s13369-019-04023-1 (SCI-E).
	5. Mahiraj Singh Rawat and Shelly Vahera, Maximum Penetration Level Evaluation of Hybrid Renewable DGs of Radial Distribution Networks Considering Voltage Stability, Journal of Control, Automation and Electrical Systems, vol. 30, no. 5, pp. 780-793, Oct. 2019. (ESCI/Scopus)(Springer) DOI: 10.1007/s40313-019-00477-8.
	6. Mahiraj Singh Rawat and Shelly Vadhera, Heuristic optimization techniques for voltage stability enhancement of radial distribution network with simultaneous consideration of network reconfiguration,DGs sizing and allocations, Turkish journal of Electrical Engineering and Computer Sciences, vol. 27, no. 1, pp. 330-345, Jan 2019. DOI: 10.3906/elk-1806-181 (SCI-E).
	7. Suryanarayana, G., G. K. Rao, S. Sarangi and P. Raja (2019). Directional relaying using parameter estimation approach. International Journal of Electrical Power & Energy Systems, 107, 597-604. (Elsevier)
	8. Suryanarayana, G., P. Raja, and M. P. Selvan and Venkata Kirthiga Murali (2019) An Effective Algorithm for Fault Discrimination and Estimation of Fault Location in Transmission Lines. IET Generation, Transmission & Distribution, 13, 2789-2798.
	9. T. N. Gupta, S. Murshid and B. Singh, "Power quality improvement of single phase weak grid interfaced hybrid solar PV and wind system using double fundamental signal extracter-based control," IET Gener., Transm. & Distrib., vol. 13, no. 17, pp. 3988-3998, 2019.
	10. Ankit Uniyal and Saumendra Sarangi, "Optimal allocation of ELC in microgrid using droop controlled load flow", IET Generation Transmission & Distribution, vol. 13, no. 20, pp. 4566-4578, 2019.
2018	1. Prakash Dwivedi, Sandeep Pandey, and Anjali Junghare, "Robust and Novel Two Degree of Freedom Fractional Controller Based on Two-Loop Topology for Inverted Pendulum", ISA Trans, Vol. 75, pp. 189-206, 2018, Elsevier (SCI-E, Impact factor: 3.370)."
	2. Sandeep Pandey, Prakash Dwivedi, and Anjali Junghare, "A Newborn Hybrid Anti-windup Scheme for Fractional Order Proportional Integral Controller", Arab J Sci Eng, Vol. 43, pp. 3049-3063, 2018, Springer (SCI-E, Impact factor: 1.092)."
	3. Mahiraj Singh Rawat and Shelly Vadhera, Impact of Photovoltaic penetration on static Voltage stability- A Probabilistic approach, Asian Journal of Water, Environment and Pollution, vol. 15, no. 3, pp. 51-62, 2018.(E-SCI (Web of Science)/Scopus) (IOS Press).
	4. Sourav Bose and SP Singh, "Performance Analysis of Micro Wind Energy Conversion System Using IMC Based Sensor-less Vector Control Technique", Interciencia Journal, Vol 43(3), PP No: 95-136, 2018.
	5.
2017	1. Prakash Dwivedi, Sandeep Pandey, and Anjali Junghare, "Stabilization of Unstable Equilibrium Point of Rotary Inverted Pendulum using Fractional Controller", Journal of the Franklin Institute, Vol. 354 (17), pp. 7732-7766, 2017, Elsevier (SCI-E, Impact factor: 3.576).
	2. Sandeep Pandey, Prakash Dwivedi, and Anjali Junghare, "Anti-windup Fractional Order PI^λ−PD^μ Controller Design for Unstable Process: A Magnetic Levitation Study Case Under Actuator Saturation", Arab J Sci Eng, Vol. 42(12), pp. 5015-5029, Springer (SCI-E, Impact factor: 1.092).
	3. Sandeep Pandey, Prakash Dwivedi, and Anjali Junghare, "A novel 2-DOF fractional-order PI^λ-D^μ controller with inherent anti-windup capability for a magnetic levitation system", AEU - International Journal of Electronics and Communications Vol.79, pp. 158-171, 2017, Elsevier (SCI-E, Impact factor: 2.115).

	4. Prakash Dwivedi, Sandeep Pandey, and Anjali Junghare, "Performance Analysis and Experimental Validation of 2-DOF Fractional-Order Controller for Underactuated Rotary Inverted Pendulum", Arab J Sci Eng, Vol. 42 (12), pp. 5121- 5145, 2017, Springer (SCI-E, Impact factor: 1.092).

Conferences	
Year	**Details**
2021	1. A. Sharma, T. N. Gupta and M. S. Rawat, "SOSF Implemented Single Stage Solar PV Fed Grid Integrated Water Pumping System Driven Through PMS Motor", International Conference of emerging Technologies (INCET 2021), 21st- 23rd May 2021 Belgaum, India
	2. M. Rawal, S. K. Singh, M. S. Rawat and T. N. Gupta, "Analysis of droop in PQ control mode for Appropriate Power Sharing of Parallel Connecting Inverters", 2021 The International Conference of emerging Technologies (INCET 2021), 21st- 23rd May 2021 Belgaum, India.
	3. S. K. Singh, M. S. Rawat and T. N. Gupta, "Hybrid Islanding Detection Technique for Inverter Based Microgrid", 2021 The International Conference of emerging Technologies (INCET 2021), 21st- 23rd May 2021, Belgaum, India.
	4. A. Sharma, T. N. Gupta and M. S. Rawat, "Grid Connected Solar PV fed Constant Power Water Pumping System", 2021 The International Conference for Intelligent Technologies (CONIT 2021), Kartakata, India-Accepted
	5. S. K. Peeploda, T. N. Gupta and M. S. Rawat, "A double-SOGI Based Power Quality Improvement for a Weak Grid Connected PV System", International Conference on Computational Intelligence and Emerging Power System (ICCIPS 2021), March 9- 10, 2021, Ajmer, India.
	6. Ankit Uniyal, Saumendra Sarangi and Mahiraj Rawat,Effect of penetration levels on thermal demands with V and f regulation in multi-energy microgrid, International Conference on Smart Grid Energy Systems and Control (SGESC-2021), March 19-21, 2021.
	7. Santosh Kumar Singh, Mayank Rawal, Mahiraj Singh Rawat and Tripurari Nath Gupta, "A Hybrid Islanding Detection Technique for Synchronous Generator based Microgrids", International Conference on Smart Grid Energy Systems and Control (SGESC-2021)- March 19-21, 2021..
	8. Ashutosh Sharma and Suryanarayana Gangolu "Positive Sequence Impedance based Fault Discrimination Technique in Grid-Connected Solar PV System" IEEE 2nd International Conference of Emerging Technologies 2021(2nd INCET 2021), Belgaum, Karnataka, India.
	9. Srinivasa Murthy G and Suryanarayana Gangolu "A New Technique for Fault Discrimination in Shunt Compensated Transmission Line" IEEE 2nd International Conference of Emerging Technologies 2021(2nd INCET 2021), Belgaum, Karnataka, India.
	10. Srinivasa Murthy G and Suryanarayana Gangolu "Negative Sequence-based Fault Discrimination Technique for Shunt Compensated Transmission Line" IEEE 2nd International Conference of Emerging Technologies 2021(2nd INCET 2021), Belgaum ,Karnataka , India.
	11. Srinivasa Murthy G and Suryanarayana Gangolu "Fault detection in floating PV system Using dc leakages"International Online Conference on Smart Grid Energy Systems and Control (SGESC-2021) held during March 19-21, 2021, at NIT Kurukshetra.

	12. S. K. Peeploda, T. N. Gupta and A. Sharma, "A TOFSE Based Control Algorithm to Enhance Power Quality under Abnormal Grid Condition", 2021 The International Conference for Intelligent Technologies (CONIT 2021), Kartakata, India-Accepted
	13. M. Rawal, S. K. Singh, M. S. Rawat and T. N. Gupta,"Analysis of ANN Based Enhanced Droop Technique for Appropriate Power Sharing of Parallel Connecting Inverters", IEEE International Conference on Emerging Trends on Industry 4.0 (ETI 4.0), 19th- 21st May 2021, Raigarh, Chhattisgarh, India.
	14. S. K. Peeploda, T. N. Gupta and M. S. Rawat,"FOFT Based Power Quality Improvement of the 3-phase Microgrid under Weak Grid Condition", IEEE International Conference on Emerging Trends on Industry 4.0 (ETI 4.0)-2021, Raigarh, 19th- 21st May 2021Chhattisgarh, India.
	15. A. Sharma, T. N. Gupta and S. K. Peeploda,"FOFFT Based Grid Connected PMS Motor Driven Solar Water Pumping With Improved Power Quality", IEEE International Conference on Emerging Trends on Industry 4.0 (ETI 4.0)-2021, Raigarh, Chhattisgarh, India, 19th- 21st May 2021.
	16. S. K. Singh, I. Chandra, M. S. Rawat and T. N. Gupta, "A Passive Islanding Techniques for Inverter Rich Microgrid", 2021 The International Conference for Intelligent Technologies (CONIT 2021), Kartakata, India, 19th- 21st May 2021.
	17. S. K. Peeploda and T. N. Gupta, "Power Quality Improvement of 3-phase Microgrid Based TOFE under Weak Grid Condition", 2021 The International Conference of emerging Technologies (INCET 2021), Belgaum, India.
	18. A. Sharma and T. N. Gupta, "Solar Powered PMSM Driven Battery Supported Water Pumping System", International Conference on Smart Grid Energy Systems and Control (SGESC-2021).
	19. R. Kumar and M. K. Pathak, "Control of DC Microgrid for Improved Current Sharing and Voltage Regulation," 2020 3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies, 2021, pp. 1-4, doi: 10.1109/ICEPE50861.2021.9404421.
2020	1. Rajat Singh, Sourav Bose, Prakash Dwivedi, "Multi-Output Flyback Converter Closed Loop Control with MPPT Tracked PV Module", *Accepted In the proceedings of the 17th IEEE India Council International conference INDICON2020, Delhi, India, 2020.*
	2. Abhishek, Prakash Dwivedi, Sourav Bose "Design and Analysis of Buck-Boost Converter Using Adaptive Sliding Mode Approach", *Accepted In the proceedings of the 17th IEEE India Council International conference INDICON2020, Delhi, India, 2020*
	3. Abhishek, Prakash Dwivedi, Sourav Bose "Design and Analysis of Bi-Directional SEPIC-ZETA Converter Using Adaptive Sliding Mode Approach", *Accepted In the proceedings of the 17th IEEE India Council International conference INDICON2020, Delhi, India, 2020.*
	4. Divakar, Prakash Dwivedi, Sourav Bose, Nitin Gupta "Design and Analysis of Closed-Loop Control for Full-wave Rectifier by using IMC Controller", *Accepted In the proceedings of the IEEE Power Electronics, Drives and Energy Systems (PEDES 2020), Jaipur, India, 2020.*
	5. Samant Kumar Singh, Sourav Bose, Prakash Dwivedi, "Decoupled MultiLoop Control Of Switched Inductor Z-Source Inverters For Distributed Generations", *In the proceedings of the IEEE International Conference for Convergence in Engineering (ICCE 2020), Kolkata, India, 2020.*
	6. Rajat Singh, Sourav Bose, Prakash Dwivedi, "Fractional order PI controlled Flyback converter with MPPT tracked PV system", *In the proceedings of the IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2020), VNIT Nagpur, India, 2020.*
	7. Divakar Singh, Prakash Dwivedi, Sourav Bose, Sandeep Pandey, "Comparative Analysis of PI Control with Anti-Windup Schemes for Front-end Rectifier", *In the proceedings of the IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2020), VNIT Nagpur, India, 2020.*

	8. Samant Kumar Singh, Sourav Bose, Prakash Dwivedi, "Fractional Order PI Based Behavioural Closed Loop Study of Switched Inductor Z source Inverter", *Accepted In the proceedings of the 46th Annual Conference of the IEEE Industrial Electronics Society (IECON 2020), Singapore, 2020.*
	9. Divakar, Prakash Dwivedi, Sourav Bose, "Design and Analysis of Closed Loop Control for Single Phase Boost Rectifier by using Fractional Order PI Controller", *Accepted In the proceedings of the 46th Annual Conference of the IEEE Industrial Electronics Society (IECON 2020), Singapore, 2020.*
	10. Divakar, Prakash Dwivedi, Sourav Bose, "Design and Analysis of Multiple-loop Control Scheme Applied to a Front-end Rectifier", *Accepted In the proceedings of the 46th Annual Conference of the IEEE Industrial Electronics Society (IECON 2020), Singapore, 2020.*
	11. Abhishek Kumar, Prakash Dwivedi, Sourav Bose, "Design and Analysis of Boost Converter using sliding mode approach", *Accepted In the proceedings of the 46th Annual Conference of the IEEE Industrial Electronics Society (IECON 2020), Singapore, 2020.*
	12. Samant Kumar Singh, Sourav Bose, Prakash Dwivedi, "Closed loop control of Z-Source Inverters involving composite partial pole-zero cancellation strategy", *In the proceedings of the 6th Students Conference on Engineering & Systems (SCES 2020), Allahabad, India, 2020.*
	13. Bikramaditya Chandan, Prakash Dwivedi, Sourav Bose, "An Experimental Study of SEPIC Converter with BLDC Motor as Application", *In the proceedings of the IEEE HYDCON-2020, Hyderabad, India, 2020.*
	14. Abhishek Kumar, Prakash Dwivedi, Sourav Bose, "Design and Analysis of Buck Converter using sliding mode approach", *In the proceedings of the 6th Students Conference on Engineering & Systems (SCES 2020), Allahabad, India, 2020.*
	15. Abhishek Kumar, Durgesh Nautiyal, Prakash Dwivedi, "Closed loop control of Buck Converter with type III Compensator", *In the proceedings of the Electric Power and Renewable Energy Conference (EPREC 2020), Jamshedpur, India, 2020*
	16. Rajat Singh, Sourav Bose, Prakash Dwivedi, "Closed Loop Control of Flyback Converter with PV as a source", *In the proceedings of the 9th IEEE Power India International Conference (PIICON 2020), Haryana, India, 2020.*
	17. Shivam Tripathi, Mahiraj Singh Rawat and V G Durgarao Rayudu, Dynamic Voltage Instability Identification of Power System Using Thevenin Equivalent Method, In Proc. 6th Students Conference on Engineering & Systems (SCES 2020), MNNIT Allahabad, July 10-12, 2020.
	18. Himani Kala and Mahiraj Singh Rawat, Optimal Probabilistic Power Flow in AC-DC Hybrid Microgrid, In Proc. 6th Students Conference on Engineering & Systems (SCES 2020), MNNIT Allahabad, July 10-12, 2020.
	19. Durgesh Chandra Nautiyal and Mahiraj Singh Rawat, Comparative Study of Various Wind Turbines: A Review, International Conference on Innovative Engineering Design 2020, Dehradun, 18-20 January 2020.
	20. Raja Ram Kumar, Chandan Chetri, Priyanka Devi and Sourav Bose, "Design and Analysis of Dual Stator Non-magnetic Rotor Six-Phase Permanent Magnet Synchronous Generator for Marine Power Application " Accepted In the proceedings of the IEEE INTERNATIONAL CONFERENCE ON COMPUTING, POWER AND COMMUNICATION TECHNOLOGIES (GUCON),Greater Noida,2020.
	21. Sourav Bose and S. P. Singh, "Sensor-less Vector Control of DFIG Based Micro Wind Energy Conversion System," 2020 IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE2020), Cochin, India, 2020, pp. 1-6, doi: 10.1109/PESGRE45664.2020.9070748.
	22. Samant Kumar Singh, Sourav Bose, and Prakash Dwivedi, "Closed-Loop Control of Z-source Inverters Involving Composite Partial Pole-Zero Cancellation Strategy", In the

	proceedings of the 6th Students Conference on Engineering & Systems (SCES) 2020, Allahabad, India, 2020.
	23. SK Mourya, Suryanarayana Gangolu and S Sarangi"Quadrature based overcurrent relay for PV penetrated primary distribution system" 21st National Power Systems Conference (NPSC 2020/IIT Ghandhinagar.
	24. Apoorva Sharma, SK Mourya, Suryanarayana Gangolu and TN Gupta "Wavelet Transform based Passive Technique to Detect Islanding in PV Interactive Power System"7th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2020)/MNIT Allahabad
	25. Ekta Priyadarshini and Suryanarayana Gangolu "Local End Data Based Fault Detection Technique in Transmission Line Using DWT" 6th Students' Conference on Engineering & Systems 2020 (SCES-2020), during July 10-12, 2020, organized by the Department of Electrical Engineering, Motilal Nehru National Institute of Technology Allahabad
	26. Ekta Priyadarshini and Suryanarayana Gangolu "A New Scheme for Fault Detection in Transmission Line using Wavelet Transform" International Conference on Innovative Engineering Design (ICoIED 2020)
	27. Sunil Kumar Maurya , Suryanarayana Gangolu and Saumendra Sarangi "Unsymmetrical Fault Analysis of PV for Different Transformer Configurations" 9th IEEE Power India International Conference (PIICON-2020)
	28. A. Sharma, S. K. Maurya, S. Gangolu and T. N. Gupta, "Wavelet Transform based Passive Technique to Detect Islanding in PV Interactive Power System," 2020 IEEE 7th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON), Prayagraj, India, 2020, pp. 1-6, doi: 10.1109/UPCON50219.2020.9376470.
	29. T. N. Gupta, B. Singh, A. Chandra and K. Al-Haddad, "Control of Single-Phase Solar PV-BES Microgrid," IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics Society, Singapore, Singapore, 2020, pp. 3660-3665
2019	1. Deepak Soni, Rakesh thapliyal, Prakash Dwivedi, "Load frequency control of two interconnected area hybrid microgrid system using various optimization for the robust controller", *In the proceedings of TENCON 2019, Kochi, India, 2019.*
	2. Bikramaditya Chandan, Prakash Dwivedi, Sourav Bose, "Closed Loop Control of SEPIC DC-DC Converter Using Loop Shaping Control Technique", *In the proceedings of the 10th IEEE Control & System Graduate Research Colloquium 2019 ((ICSGRC 2019), Selangor, Malaysia, 2019.*
	3. Abhishek Roshan, Prakash Dwivedi, Himesh Kumar, "Fuzzy based MPPT and Energy Management Strategy", *In the proceedings of the 10th IEEE Control & System Graduate Research Colloquium 2019 ((ICSGRC 2019), Selangor, Malaysia, 2019.*
	4. Z. Rayeen, O. Hanif and Sourav Bose, "Modelling and analysis of Interleaved Cuk converter controlled by PID controller with phase shift PWM method," 2019 IEEE Students Conference on Engineering and Systems (SCES), Allahabad, India, 2019, pp. 1-6, doi: 10.1109/SCES46477.2019.8977208
	5. Sourav Bose and S. P. Singh, "Internal Model Control of DFIG Based Micro Wind Energy Conversion System," 2019 19th International Conference on Control, Automation and Systems (ICCAS), Jeju, Korea (South), 2019, pp. 435-440, doi: 10.23919/ICCAS47443.2019.8971721.
	6. SK Maurya, S Sarangi, S Gangolu "Secondary Controller for PV Sources in DC/AC Hybrid Microgrid" IEEE International Conference on Electrical, Electronics and Computer Engineering (UPCON), 2019.
2018	1. Zeeshan Rayeen, Sourav Bose, Prakash Dwivedi, "Study of Closed loop Cuk converter controlled by Loop Shaping Method", *in the proceedings of the IEEE 13th International Conference on Industrial and Information Systems(IMECS 2018), IIT Ropar, 2018.*
	2. Vinayak Tripathi, Vaishali Chapparya, G. Murali Krishna, Prakash Dwivedi, Sourav Bose, "Design of Interleaved Buck Boost DC-DC Converter using Loop Shaping

	Technique and Investigation of Converter through Time and Frequency Response", *in the proceedings of the International MultiConference of Engineers and Computer Scientists (IMECS 2018), Hong Kong, 2018.*
	3. Vaishali Chapparya, G. Murali Krishna, Prakash Dwivedi, Sourav Bose, "Loop Shaping Controller Design for Constant Output Interleaved Boost Converter using Real-Time Hardware in-the-Loop (HIL)", *in the proceedings of the International MultiConference of Engineers and Computer Scientists (IMECS 2018), Hong Kong, 2018.*
	4. Neha Manjul and Mahiraj Singh Rawat, PV/QV Curve Based Optimal Placement of Static Var System in Power Network using DigSilent Power Factory, 8th IEEE Power India International Conference (PIICON 2018), NIT Kurkshetra, Haryana, 10-12 Dec. 2018.
	5. Mahiraj Singh Rawat and Ruchi Tamta, Optimal Placement of TCSC and STATCOM for Voltage Stability Enhancement in Transmission Network, 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2018), MMM Gorakhpur, UP, 2-4 Nov. 2018.
	6. Ruchi Tamta, Mahiraj Singh Rawat, Optimal Placement of TCSC to Improve the Voltage Stability of Transmission Network, Advances in Power, Control and Communications (NCAPCCS-18), NIT Kurukshetra, Haryana, April 21-28, 2018.
	7. Ruchi Tamta, Mahiraj Singh Rawat, Impact of DG and STATCOM placement on improving the reactive power loading capability and voltage stability of subtransmission network, Advances in Power, Control and Communications (NCAPCCS-18), NIT Kurukshetra, Haryana, April 21-28, 2018.
	8. Shefali Painuli, Mahiraj Singh Rawat, Durgarao Raydu, Minimization of Losses considering Electric Vehicles, Advances in Power, Control and Communications (NCAPCCS-18), NIT Kurukshetra, Haryana, April 21-28, 2018.
	9. Mahiraj Singh Rawat and Shelly Vadhera, Voltage Stability based method for placement of DG in distribution networks, 1st International Conference on New Frontiers in Engineering Science and Technology (NFEST-2018), New Delhi, Jan 8-12,2018 .
	10. Ruchi Tamta, Shefali Painuli, Mahiraj Singh Rawat, and Shelly Vadhera, Comparison of line voltage stability indices for assessment of voltage instability in high voltage network, 1st International Conference on New Frontiers in Engineering Science and Technology (NFEST-2018), New Delhi, Jan 8-12,2018 .
	11. Shefali Painuli, Kesav Rao, Mahiraj Singh Rawat and V.G. Durgarao Rayudu, Effects on Distribution System Voltage Stability including Electric Vehicles and its Enhancement by placing DG at Optimal location, International conference on Power & Energy Systems: towards sustainable energy 2018, Bengaluru, India, 18-20 Jan 2018.
	12. Shefali Painuli, Mahiraj Singh Rawat and Durgarao Rayudu, A Comprehensive Review on Electric Vehicles Operation, Development and Grid Stability, IEEE International Conference on Power Energy, Environment & Intelligent Control (PEEIC2018), April 2018.
	13. G. Murali Krishna, Zeeshan Rayeen and Sourav Bose, "Analysis and Comparison of Asymmetric and Symmetric Hybrid Multilevel Inverters", IEEE INTERNATIONAL CONFERENCE ON INNOVATIVE TECHNOLOGIES IN ENGINEERING (ICITE2018) Osmania University
	14. G. Murali Krishna, Vineet Kushwaha, and Sourav Bose Real-Time Implementation of a Novel Asymmetrical Multilevel Inverter with Reduced Number of Switches",in the proceedings of the International MultiConference of Engineers and Computer Scientists (IMECS 2018), Hong Kong, 2018.
	15. Improvising Differential Protection Scheme to Differentiate Between Internal and External Fault in Presence of Charging Current IEEE 8th Power India International Conference (PIICON) Kurukshetra / 2018
	16. Adaptive Fault Location Algorithm for Series Compensated Line Using Relay data Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy (PESTSE) Bangalore / 2018

	17. S. Kumari, P. S. Bhakar and T. Nath Gupta, "Analysis of Wind fed PMSG with INC MPPT using Interleaved Boost Converter," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 795-800.
	18. S. Kumari, V. Kushwaha and T. N. Gupta, "A Maximum Power Point Tracking For a PMSG Based Variable Speed Wind Energy Conversion System," 2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, 2018, pp. 789-794.
	19. T. N. Gupta, S. Murshid and B. Singh, "Single-Phase Grid Interfaced Hybrid Solar PV and Wind System using STF-FLL for Power Quality Improvement," 2018 8th IEEE India Int. Conf. Power Electron. (IICPE), JAIPUR, India, 2018, pp. 1-6.
	20. T. N. Gupta, S. Murshid and B. Singh, "Power Quality Improvement of Single Phase Grid Connected Hybrid Solar PV and Wind System," 2018 IEEE 8th Power India Int. Conf. (PIICON), Kurukshetra, India, 2018, pp. 1-6.
	21. T. N. Gupta, S. Murshid and B. Singh, "Modified Notch Filter Based Control for Wind Energy Generation System Integrated to Single-Phase Weak Grid," 2018 5th IEEE Uttar Pradesh Section Int. Conf. Electr., Electron. and Computer Eng. (UPCON), Gorakhpur, 2018, pp. 1-6
	22. T. N. Gupta, S. Murshid and B. Singh, "PLL-Less Compensation control for Single-Phase Grid Interfaced Wind Energy Generation System," 2018 IEEE Int. Conf. Power Electron., Drives and Energy Syst. (PEDES), Chennai, India, 2018, pp. 1-5.
	23. T. N. Gupta, S. Murshid and B. Singh, "Single-Phase Grid Interfaced WEGS using Frequency Adaptive Notch Filter for Power Quality Improvement," 2018 2nd IEEE Int. Conf. Power Electron., Intelligent Control and Energy Syst. (ICPEICES), Delhi, India, 2018, pp. 630-635.
	24. H Kumar, DK Khatod, "Loss Allocation for Distribution Network Using τ-Value Game Theory Approach", 2018 International Conference on Intelligent Circuits and Systems, LPU, Punjab, India.
2017	1. Sandeep Pandey, Prakash Dwivedi, Nitesh Kumar Soni, Anjali S junghare, "Experimental Demonstration of Anti-windup Controller for Non-Linear Magnetic Levitation System", *IEEE International Conference On Information Communication Instrumentation and Control (ICICIC 2017), Medi-Caps, Indore (India), 2017*.
	2. Sandeep Pandey, Prakash Dwivedi, Anjali S junghare, "A newborn anti-windup scheme based on state prediction of fractional integrator for variable speed motor", *Accepted in the proceedings of the 17th International Conference on Control, Automation and Systems (ICCAS 2017), Jeju (Korea), 2017*.
	3. Prakash Dwivedi, Sandeep Pandey, Anjali S junghare, "Novel Fractional Order PD^λ Controller for Open-Loop Unstable Inverted Pendulum System", *in the proceedings of the 17th International Conference on Control, Automation and Systems (ICCAS 2017), Jeju (Korea), 2017.*
2016	1. Mahiraj Singh Rawat and Shelly Vadhera, Analysis of wind power penetration on power system voltage instability, IEEE 6th International Conference on Power Systems (ICPS 2016), IIT Delhi, 4-5 March 2016.
	2. Mahiraj Singh Rawat and Shelly Vadhera, Comparison of FACTS devices for transient stability enhancement of multi machine power system, IEEE International Conference on Microelectronics, Computing and Communication (MicroCom 2016), NIT Durgapur, 23-25 Jan. 2016.
2015	1. S Chatterjee, AK Garg, K Chatterjee, H Kumar, "Chaotic PWM spread spectrum scheme for conducted noise mitigation in DC-DC converters", 2015 International Conference on. Energy, Power and Environment: Towards Sustainable Growth, Shillong, India.

Book Chapters	
2021	Neha Manjul, Mahiraj Singh Rawat, Transient Stability Analysis of Wind Integrated Power Network using STATCOM and BESS using DIgSILENT PowerFactory, Proceedings of the 7th International Conference on Advances in Energy Research, pp. 525-536, 2021. (Springer Proceedings in Energy) ISBN 978-981-15-5954-9
2020	Isha Chandra and Mahiraj Singh Rawat, A Comparison between Passive Islanding Detection Methods in Grid Integrated Photovoltaic System, Advances in Engineering Design, Select Proceedings of ICOIED 2020, Springer, ISBN 978-981-334-018-3.
	Mahiraj Singh Rawat, Shelly Vadhera, Evolution of Islanding Detection Methods for Microgrid Systems, Optimizing and Measuring Smart Grid Operation and Control, IGI Global, USA, pp. 221-257,Nov. 2020.ISBN13: 9781799840275
2019	Mahiraj Singh Rawat, Shelly Vadhera, Voltage Stability assessment techniques for modern power systems, Novel Advancements in Electrical Power Planning and Performance, IGI Global, USA, pp. 128-176, August 2019. ISBN10: 1522585516, DOI:10.4018/978-1-5225-8551-0
2018	Vaishali Chapparya, Prakash Dwivedi, Sourav Bose, "(2020) Multiphase DC-DC Boost Converter: Introduction to Controller Design. ", In: Ao SI., Kim H., Castillo O., Chan A., Katagiri H. (eds) Transactions on Engineering Technologies. IMECS 2018.(Springer, Singapore),