

**Dr. S. P. Singh**  
Associate Professor, EED, REC, Ambedkar Nagar  
**Profile Summary**

**Government Sponsored Research Project:**

<b>Name of the research project</b>	<b>Amount</b>	<b>Name of funding Agency</b>	<b>Year of sanction</b>	<b>Duration of project</b>	<b>Status</b>
Integrated Renewable Resources: Storage operation and Management in Smart Grid	Rs. 3 Lakhs	CRIP TEQIP-III AKTU, Lucknow	2019	1 Year	Completed
Development of IoT and Drone Based Agriculture Monitoring System with Objective of Skill Development of Socially Deprive Community	Rs. 44.648 Lakhs	MEITY, New Delhi	2020	2 Years	On-going

**Book Authored:**

- [1] Er. Jaswant Singh and Dr. S. P. Singh, “Elements of Power System”, Standard Publishers Distributors, Nai Sarak, Delhi-110006, ISBN No. 978-81-8014-249-9, 1<sup>st</sup> Edition, 2018.

**Research Article in International Magazines / Book Chapters:**

- [2] Dr. S. P. Singh, Member, IEEE, Krishna Kumar Singh, and Bhavnesh Kumar “Performance Evaluation of Brushless DC Motor Drive Supplied from Hybrid Sources” published in Applications of Artificial Intelligence Techniques in Engineering, Springer Nature Singapore Pvt. Limited, Chapter No. 41, ISBN. No. 978-981-13-1821- 4, 2018.
- [3] Dr. Mohammed Aslam Husain, Dr. S. P. Singh, Member, IEEE, Md. Tabrez “Performance Investigation of Permanent Magnet Synchronous Generator based Energy Conversion System with Intelligent MPPT under variable speed operation” published in Intelligent Data-Analytics for Power and Energy Systems: Advances in models and applications, springer Book Chapter-32, 2021.

## PUBLICATIONS

### INTERNATIONAL JOURNAL:

- [1] Jaswant Singh, **S P Singh**, *Member, IEEE*, K S Verma, Arif Iqbal, Bhavnesh Kumar “Recent Control Techniques and Management of AC Micro-grids: A critical Review on issues, Strategies, and future trends”, *International Transaction on Electrical Energy Systems*, Impact factor 1.692, Wiley, July, 2021. DOI: 10.1002/2050-7038.13035
- [2] Md. Tabrez, Atif Iqbal, Pradip Kumar Sadhu, Mohammed Aslam Husain, **S P Singh**, *Member, IEEE*, “Equivalent Circuit modelling of a three-phase transformer using PSO” *Journal of Intelligent and Fuzzy Systems*, Impact factor 1.851, Special Issue, IOS press, Vol.32, Issue, 4, Feb. 2021.DOI: 10.3233/JIFS-189741
- [3] Jaswant Singh, **S P Singh**, *Member, IEEE*, K S Verma, Arif, Iqbal, Yudhishthir Pandey, Dilip Kumar, “Comparison of Controllers used in Fuel Cell for Power Conditioning” *Solid State Technology*, Scopus Indexed Referred Journal, ISSN No. 0038-111X, Vol. 63, Issue 4, 2020.
- [4] **S P Singh**, *Member, IEEE*, Arif Iqbal, Jaswant Singh, R. Kumar, Ashwin Kumar Yadav, “Smart Garden with IOT based Plant Monitoring System” *Solid State Technology*, Scopus Indexed Referred Journal, ISSN No. 0038-111X, Vol. 63, Issue 4, 2020.
- [5] Ravindra Kumar, **S P Singh**, *Member, IEEE*, Ritik Rajput, Maneesh Kumar Gupta, “Designing of Laboratory based Demand Side Management in the Smart Grid Perspective” *Solid State Technology*, Scopus Indexed Referred Journal, ISSN No. 0038-111X, Vol. 63, Issue 4, 2020.
- [6] Ravindra Kumar, Himanshu Sagar, **S P Singh**, *Member, IEEE*, “Analysis of Distribution Network Protection Issues in the Presence of Disperse Generation” *Solid State Technology*, Scopus Indexed Referred Journal, ISSN No. 0038-111X, Vol. 63, Issue 4, 2020.
- [7] Kamlesh K. Bharti, Vijay P. Singh, & **S P Singh**, *Member, IEEE* “PSO-Based: MARL Approach for frequency Regulation of Multi-area Power System” in *Journal of Electrical Engineering & Technology (JEET)*, ISSN No. 1975-0102, 2020.
- [8] Abdul Hafeez, **S P Singh**, *Member, IEEE*, “Study of Total Harmonic Distortion (THD) Reduction by Filter in Renewable Energy Inverter” in *TEST Engineering and Management Journal A Scopus Indexed Journal*, vol 82, January-February 2020 ISSN: 0193-4120 Page No. 15019- 15023.

- [9] Kamlesh K. Bharti, Vijay P. Singh, Raj K. Patel, **S P Singh**, *Member, IEEE* “Impact of Intelligent Demand Response for Load Frequency Control in Smart Grid Perspective” in *IETE Journal of Research*, Taylor and Francis, vol. 65, issue 6, ISSN: 0377-2063, 2019.
- [10] Rakesh, Ravindra Kumar, **S. P. Singh**, Jaswant Singh and Dr. Akhilesh Kumar Mishra, “Importance of Earthing and Grounding during Construction and Maintenance”, in *International Journal of Applied Engineering Research (IJAER)*, ISSN No.: 0973-4562, Vol. 14, Number 2, pp. 7-12, February 2019.
- [11] Shashi Pandey, **S. P. Singh**, and Rahul Singh Yadav, “Performance Comparison of DVR and D-STATCOM for Power Quality Improvement using Non-linear Loads”, in *International Journal of Advance Research in Science and Engineering (IJARSE)*, ISSN No.: 2319-8354 , Vol. 7, Issue 1, pp. 395-402, April 2018.
- [12] Shashi Pandey, **S. P. Singh**, and K. G. Upadhyay, “Short Term Electricity Price Forecasting in a Competitive Market by Hybrid Intelligent Approach”, in *International Journal of Advance Research in Science and Engineering (IJARSE)*, ISSN No.: 2319-8354 , Vol. 7, Issue 1, pp. 421-429, April 2018.
- [13] **S. P. Singh**, Dinesh Kumar, Pankaj Kumar Gupta, Ankit Kumar Srivastava, Dilip Kumar, and A. S. Pandey, “Performance Comparison of PV system employed with Perturb & Observe (P & O) and Incremental Conductance MPPT Techniques”, in *International Journal of Emerging Technologies and Innovative Research (JETIR)*, ISSN No.: 2349-5162 , Vol. 5, Issue 2, pp. 622-628, February 2018.
- [14] **S P Singh**, P. K. Gupta, Jaswant Singh, Ravindra Kumar, and H. R. Gurjar, “A Comprehensive Review on MPPT Techniques used for Photo-voltaic Energy Conversion System”, in *International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRCSC)*, ISSN No.: 2454-4248 , Vol. 4, Issue 1, pp. 68-81, January 2018.
- [15] Bindeshwar Singh, **S P Singh**, Jaswant Singh, Krishna Kumar Singh, Shashank Dadhich, “Utilities of Differential Algebraic Equations (DAE) Model of SVC and TCSC for operation, Control, Planning & Protection of Power System Environments”, in *International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRCSC)*, ISSN No.: 2454-4248 , Vol. 4, Issue 1, pp. 61-67, January 2018.
- [16] **S P Singh**, Krishna Kumar Singh, Dr. K. S. Verma, Jaswant Singh, and Naveen Tiwari, “A Review on Control of a Brushless DC Motor Drive”, in *International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRCSC)*, ISSN No.: 2454-4248 , Vol. 4, Issue 1, pp. 82-97, January 2018.
- [17] Anup Kumar Singh, R. P. Payasi, and **S P Singh**, “Effect of DG types & Seasonal mixed load models in distributed generation planning”, in *International Journal of Emerging Technologies and Innovative Research (JETIR)*, ISSN No.: 2349-5162 , Vol. 4, Issue 12, pp. 552-559, December 2017.

- [18] Dilip Kumar Patel, **S P Singh**, Ravindra Kumar, and Kaustubh Kundan Srivastava, "Distributed Generation Planning in Distribution System using Genetic Algorithm", in International Journal of Emerging Technologies and Innovative Research (JETIR), ISSN No.: 2349-5162 , Vol. 4, Issue 10, pp. 103-115, October 2017.
- [19] Dilip Kumar Patel, **S P Singh**, and Ravindra Kumar, "Development of Algorithm based on Block pulse function for Numerical protection of Synchronous Generator", in International Journal of Emerging Technologies and Innovative Research (JETIR), ISSN No.: 2349-5162 , Vol. 4, Issue 10, pp. 116-126, October 2017.
- [20] Prem Narayan, **S P Singh**, and B K Singh, "A Review of Non-isolated Boost Converters using Two Inductor for High Voltage Applications", in International Journal of Electronics, Electrical and Computational System (IJEECS), ISSN No.: 2348-117X, Vol. 5, Issue 11, pp. 75-90, November 2016.
- [21] Prem Narayan, Ravindra Kumar, Abdul Hafeez, Prem Nath Verma, and **S. P. Singh**, "Comparison of Parallel and Series Connection of Boost Converter Topology for High Voltage Applications" in International Journal of Innovative Research In Computer and Communication Engineering, ISSN No.: 2230-7656, Vol. 4, Issue 10, pp. 18047-18054, October 2016.
- [22] K P Yadav, **S. P. Singh**, A K Gautam, and Tarun Varshney, "Power Quality Enhancement by single switch AC-DC Converter" in MIT International Journal of Electrical and Instrumentation Engineering, ISSN No.: 2230-7656, Vol. 4, No. 2, pp. 45-52, August 2014.
- [23] Satyaveer Gupt, **S. P. Singh**, Deependra Singh, and Manish Trikha, "Performance Investigation of Shunt and Hybrid Active Power Filters for Power Quality Improvement" in MIT International Journal of Electrical and Instrumentation Engineering, ISSN No.: 2230-7656, Vol. 4, No. 2, pp. 53-60, August 2014.
- [24] Shobha Rani, **S. P. Singh**, A K Gautam, and Alok Pandey, "Performance Investigation of PID and Hybrid Controllers for Speed Control of Induction Motor using Direct Field Oriented (DFO) Control Technique" in MIT International Journal of Electrical and Instrumentation Engineering, ISSN No.: 2230-7656, Vol. 4, No. 2, pp. 61-68, August 2014.
- [25] Vikas Shukla, **S. P. Singh**, A K Gautam, and Vipul Agarwal, "Performance Investigation of SVPWM Controlled Diode Clamped and Flying Capacitor Multilevel Converters" in MIT International Journal of Electrical and Instrumentation Engineering, ISSN No.: 2230-7656, Vol. 4, No. 2, pp. 69-80, August 2014.
- [26] Chandarani Sutar, K S Verma, A S Pandey, and **S. P. Singh**, "Wide Area Measurement and Control using Phasor Measurement Unit in Smart Grid" in

International Science Press ,International Journal of Innovations in Electric Power Systems (IJIEPS), Vol. 3, No. 2, pp.129-139, July-December, 2012.

- [27] Rishabh Dev Shukla, Amrita Singh, and **S. P. Singh**, “Generators for variable speed wind energy conversion systems: A Comparative Study” in International Science Press, International Journal of Energy Systems Computer and Control (IJESCC), Vol. 3, No. 2, pp.103-117, July-December, 2012.
- [28] Ravi Prakash Vishvakarma, **S. P. Singh**, and T N Shukla, “Multilevel Inverter and its Control Strategies: A Comprehensive Review” in International Journal of Material Science and Electronic Research (IJSMER), Vol. 3, No. 2, pp.215-234, July-December, 2012.
- [29] Bindeshwar Singh, **S. P. Singh**, Manvendra Singh, Rahul Dixit, Nupur Mittal and Anchal Baranwal, “Standalone Power generation by 3- $\phi$  Asynchronous Generator: A Comprehensive Survey” in International Journal of Review in Computing (IJRIC), ISSN No.: 2076-3328, Vol. 10, pp.36-51, July, 2012.
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- [31] Ravindra Kumar, **S. P. Singh**, Bindeshwar Singh, and Ravi Prakash Vishvakarma, “Characterization of Voltage Sags and its Mitigation using Custom Power Devices in emerging Power System” in International Journal of Buletin Teknik Elektro Dan Informatika (Bulletin of Electrical Engineering and Informatics (TEI), ISSN No.: 2089-3191, Vol. 2, No. 2, pp.101-121, June 2012.
- [32] Amrita Singh, Bindeshwar Singh, **S. P. Singh**, and Rishabh Dev Shukla, “Enhancement of Performance Parameters of Wind Power Plants: A Technological Survey” in International Science Press, International Journal of Micro and Nano Electronics Circuits and Systems (IJMNECS), Vol. 5, No. 1, pp.24-45, January-June, 2013.
- [33] Bindeshwar Singh, **S. P. Singh**, and Suchitra Mishra, “Application of UPFC in Power System Network using MATLAB/Simulink Environment” in International Science Press, International Journal of Micro and Nano Electronics Circuits and Systems (IJMNECS), Vol. 5, No. 1, pp.18-23, January-June, 2013.
- [34] Jaswant Singh, Bindeshwar Singh, **S. P. Singh**, Mohd Naim, and Rahul Dixit, “Performance Evaluation of Permanent Magnet Synchronous Motor (PMSM) Drive

using DTC Technique” in International Journal of Reviews in Computing (IJRIC), ISSN No.: 2076-3328, Vol. 9, No. 1, pp.41-61, 10<sup>th</sup> April, 2012.

- [35] S K Pandey, **S. P. Singh**, and V P Singh, “Load Frequency Control of an Asynchronous Restructured Power System: A Fuzzy Logic Approach” in International Journal of Engineering, Science and Technology (IJEST), Vol. 4, No. 1, ISSN No. 2141-2839, pp.16-22, March 2012.
- [36] Satyaveer Gupt, Ankit Dixit, Nikhil Mishra and **S. P. Singh**, “Custom Power Devices for Power Quality Improvement: A Review” in International Journal of Research in Engineering & Applied Sciences (IJREAS), ISSN: 2249-3905, Volume 2, Issue 2, February 2012.
- [37] Nitya Nand, **S. P. Singh**, Deependra Singh, and Tarun Varshney, “An efficient Control on Photovoltaic Energy Conversion System using Modified Perturb and Observe Technique for Stand Alone Applications” in MIT International Journal of Electrical and Instrumentation Engineering, ISSN No.: 2230-7656, Vol. 2, No. 1, pp. 25-30, Jan. 2012.
- [38] Bindeshwar Singh, Padma Chaturvedi, S.K. Sinha, A. S. Pandey, and **S.P. Singh**, “Enhancement of the Performance Parameters of three phase Induction Motor Using Multilevel Converters: A Literature Survey,” International Journal of Reviews in Computing (IJRIC), ISSN No.: 2076-3328, Vol. 8, pp.34-46. October-December, 2011.
- [39] Jaswant Singh, Bindeshwar Singh, **S P Singh**, Mohd. Naim, and Rajneesh Mishra, “Enhancement of Performance Parameters of Three Phase Induction Motor by Vector Control Methods,” International Journal of Computational Intelligence Research & Applications (IJCIRA), ISSN No.: 0973-6794, Vol.5, No.1, pp. 41-61, 2011.
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- [41] Ravindra Kumar, **S. P. Singh**, K S Verma, Bindeshwar Singh, and Jaswant Singh, “Voltage Sags Characterization and its Impact Assessment on Equipment Behaviour” in International Journal of Engineering & Technoscience (IJETs), Vol. 02, Issue 4, pp.302-313, July-August 2011.
- [42] Bindeshwar Singh, **S. P. Singh**, J Singh, and Mohd Naim, “Performance Evaluation of Three-phase Induction Motor Drive fed from Z-Source Inverter” in International Journal on Computer Science and Engineering (IJCSE), Vol. 03, No. 03, pp.1277-1289, 2011.

- [43] Bindeshwar Singh , N K Sharma, A N Tiwari, and **S. P. Singh**, “Incorporation of FACTs Controllers in Newton Raphson load flow for power flow operation, control and planning: A Comprehensive Survey” in International Journal on Computer Science and Engineering (IJCSE), ISSN No.: 2117-2124, Vol. 02, No. 06, pp. 2117-2124, 2010.

### **NATIONAL JOURNAL:**

- [1] Jaswant Singh, B. Singh, **S. P. Singh**, & Mohd Naim, “Performance Evaluation of Direct Torque Control with Permanent Magnet Synchronous Motor” in SAMRIDDHI-A Journal of Physical Sciences Engineering & Technology (S-JPSET), ISSN No. : 2229-7111, Vol. 2, Issue 2, pp. 21-30, 2011, Lucknow (U. P.).
- [2] **S. P. Singh** & Dr. R. K. Tripathi, “Design of Robust Controller through  $H_{\infty}$  Approach” in the ICFAI University Journal of Electrical & Electronics Engineering, ISSN No.: 59J-2008-07-02-01, Vol. I, No. 3, pp. 15-29, July, 2008, Hyderabad (Andhra Pradesh).

### **INTERNATIONAL CONFERENCE:**

- [1] Abdul Hafeez, **S P Singh**, *Member, IEEE*, “Study of Total Harmonic Distortion (THD) Reduction by Filter in Renewable Energy Inverter” in International Conference on Recent Trends in Electrical, Electronics and Computer Science Engineering (ICEECS-2020) Jointly organised by Uma Nath Singh Institute of Engineering & Technology, Deokali, Jaunpur (U. P.) and PES College of Engineering, Mandya (Karnataka) during January 10-11, 2020.
- [2] Ashwin Kumar Yadav, Abhishek Pandey, Lalit Gond, Ravindra Kumar, **S P Singh**, *Member, IEEE*, and Dr. A. K. Mishra, “Smart Garden with IoT based Plant Monitoring System” in International Conference on Recent Trends in Electrical, Electronics and Computer Science Engineering (ICEECS-2020) Jointly organised by Uma Nath Singh Institute of Engineering & Technology, Deokali, Jaunpur (U. P.) and PES College of Engineering, Mandya (Karnataka) during January 10-11, 2020.

- [3] Vijay P. Singh, Raj K. Patel, Naveen Kumar Pandey, **S P Singh**, *Member, IEEE*, and Kamlesh Bharti, “Impact of Demand Response in Integration of Renewable Energy Resources in Smart Grid” in 8<sup>th</sup> International Conference on Power System (ICPS-19) organised by MNIT, Jaipur during December 20-22, 2019.  
(Available at IEEE Explorer)
- [4] Kamlesh Kumar Bharti, Vijay P. Singh, Raj K. Patel, and **S P Singh**, *Member, IEEE*, “Algorithm for tracking the Maximum Power from PV System” in 3<sup>rd</sup> International Conference on Recent Developments in Control Automation & Power Engineering (RDCAPE-19) organised by Amity University Uttar Pradesh, Noida during October 10-11, 2019.  
(Available at IEEE Explorer)
- [5] **S P Singh**, *Member, IEEE*, et. al. “Comparison of suboptimal control for high order dynamics system” in International Conference REC-CON-19 sponsored by TEQIP-III and organised by Department of Electrical Engineering, Rajkiya Engineering College, Ambedkar Nagar during November 28-29, 2019.
- [6] **S P Singh**, *Member, IEEE*, et. al. “Comparison of controllers used in fuel cell for Power Conditioning” in International Conference REC-CON-19 sponsored by TEQIP-III and organised by Department of Electrical Engineering, Rajkiya Engineering College, Ambedkar Nagar during November 28-29, 2019.
- [7] **S P Singh**, *Member, IEEE*, et. al. “Intellectual property rights: Basics and application procedures ” in International Conference REC-CON-19 sponsored by TEQIP-III and organised by Department of Electrical Engineering, Rajkiya Engineering College, Ambedkar Nagar during November 28-29, 2019.
- [8] Rakesh, Ravindra Kumar, **S. P. Singh**, Jaswant Singh and Dr. Akhilesh Kumar Mishra, “Importance of Earthing and Grounding during Construction and Maintenance”, in First International Conference on Emerging Trends in Technology and Applications, Feb. 1-2, 2019, jointly organised by DBATU Lonere, AKTU Lucknow and REC, Kannauj.
- [9] Mohammed Aslam Husain, Arif Iqbal, Yudhishthir Pandey, Dr. **S. P. Singh**, *Member, IEEE*, and Abu Tariq “A novel fast alternative Duty (FAD) MPPT procedure for Solar PV Hybrid Vehicles” in UPCON-2018 5<sup>th</sup> IEEE Uttar Pradesh Section International Conference, organized by MMMUT, Gorakhpur, during November 02-04, 2018.  
(Available at IEEE Explorer)
- [10] Shashi Pandey, Shashi Kant Chaudhary, Dr. **S. P. Singh**, *Member, IEEE*, and K. G. Upadhyay “Hankel Norm Approximation of a Highly Unstable Systems” in UPCON-2018 5<sup>th</sup> IEEE Uttar Pradesh Section International Conference, organized by MMMUT, Gorakhpur, during November 02-04, 2018. **(Got Best Paper Award)**  
(Available at IEEE Explorer)



- [11] Shashi Pandey, Rahul Singh Yadav, Dr. **S. P. Singh**, *Member, IEEE*, and K. G. Upadhyay “A remedy for Elimination of Harmonics in Solar Integrated Grid System” in IEEE International Conference on Computational and Characterization Techniques in Engineering and Science (CCTES-18), organized by Departments of Electronics & Communication Engineering, Electrical Engineering & Physics, Integral University Lucknow, during September 14-15, 2018.  
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- [12] Neha Singh, Yogesh K. Chauhan, **Dr. S. P. Singh**, *Member, IEEE*, Ankit Kumar Srivastava “Shading issues in Photo-voltaic modules and its Performance Assessment” in International Conference on Power Energy, Environment and Intelligent Control (PEEIC-18), organized by G. L. Bajaj Institute of Technology & Management, Greater Noida, during April 13-14, 2018.  
(Available at IEEE Explorer)
- [13] **Dr. S. P. Singh**, *Member, IEEE*, Krishna Kumar Singh, and Bhavnesh Kumar “Performance Evaluation of Brushless DC Motor Drive Supplied from Hybrid Sources” in 1<sup>st</sup> International Conference on Signals, Machines and Automation (SIGMA-18), organized by Department of Instrumentation and Control Engineering, Netaji Subhas Institute of Technology (An Autonomous Institute of Govt. of NCT of Delhi), Delhi during February 23-25, 2018.
- [14] Kumari Gita and **Dr. S. P. Singh**, *Member, IEEE*, “Selective harmonic elimination of Double cell three phase cascaded inverter using PWM Technique” in International Conference on Innovative Entrepreneurship and Start-up (ICIES-17), ISSN No.: 978-93-86256-55-3, pp.115-121, organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur during March 03-04, 2017.
- [15] Dilip Kumar Patel, **Dr. S. P. Singh**, *Member, IEEE*, A K Gautam and Ravindra Kumar, “Application of GA in MATLAB Environment for optimization in Power System operation and Security” in International Conference on Innovative Entrepreneurship and Startup (ICIES-17), ISSN No.: 978-93-86256-55-3, pp.234-242, organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur during March 03-04, 2017.
- [16] Dilip Kumar Patel, **Dr. S. P. Singh**, *Member, IEEE*, A K Gautam and Ravindra Kumar, “Voltage Source Converter based HVDC Active Power Controller to Damp out Resonance oscillations in Turbine Generator System” in International Conference on Innovative Entrepreneurship and Startup (ICIES-17), ISSN No.: 978-93-86256-55-3, pp.115-121, organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur during March 03-04, 2017.
- [17] **Dr. S. P. Singh**, *Member, IEEE*, A. K. Gautam, S. P. Tripathi and Dr. Bhavnesh Kumar, “Performance Comparison of MPPT Techniques using Cuk converter for photovoltaic energy conversion system” in 3<sup>rd</sup> International Conference on Computational Intelligence & Communication Technology (CICT-17), ISSN No.:

978-1-5090-6218-8, pp.1-7, organized by ABES Engineering College, during Feb. 09-10, 2017.  
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- [18] **Dr. S. P. Singh**, *Member, IEEE*, A. K. Gautam, Jyoti Dubey, J. P. Pandey and Dr. R. P. Payasi, “Performance Comparison of PMSM Drive using PI and Fuzzy Logic controllers” in 3<sup>rd</sup> IEEE UP Section International Conference on Electrical, Computer and Electronics Engineering (UPCON-16), ISSN No.: 978-1-4673-8888-7, pp.1-6, organized by Indian Institute of Technology (Banaras Hindu University), Varanasi, during December 09-11, 2016.  
(Available at IEEE Explorer)
- [19] A. K. Gautam, **Dr. S. P. Singh**, *Member, IEEE*, J. P. Pandey, Dr. R. P. Payasi, and Anuj Verma, “**Fuzzy logic based MPPT Technique for photo-voltaic Energy Conversion System**” in 3<sup>rd</sup> IEEE UP Section International Conference on Electrical, Computer and Electronics Engineering (UPCON-16), ISSN No.: 978-1-4673-8888-7, pp.1-6, organized by Indian Institute of Technology (Banaras Hindu University), Varanasi, during December 09-11, 2016.  
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- [20] Bhavnesh Kumar, Yogesh K Chauhan, and **Dr. S. P. Singh**, *Member, IEEE*, “MRAS based Speed Estimation Strategies for Induction Motor Drives: A Review” in 2016 IEEE Seventh India International Conference on Power Electronics (IICPE-2016), ISSN No.: 978-1-4673-8962-4, pp.1-4, organized by Thapar University, Patiala (Punjab), during November 17-19, 2016.  
(Available at IEEE Explorer)
- [21] A. K. Gautam, **Dr. S. P. Singh**, *Member, IEEE*, Dr. R. P. Payasi and J. P. Pandey, “Performance Investigation of Unified Power Quality Conditioner for Power Quality Improvement in Distribution System” in International Conference on Advance Computational Techniques in Information & Communication Technology (ICACTICT-16), ISSN No.: 978-93-86256-00-3, pp.113-119, organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur during September 23-24, 2016.
- [22] Surya Prakash Tripathi, **Dr. S. P. Singh**, *Member, IEEE*, Dr. Bhavnesh Kumar, “Performance Comparison of P & O and Fuzzy logic based MPPT Techniques using Cuk Converter for Photo-voltaic Energy Conversion System” in International Conference on Advance Computational Techniques in Information & Communication Technology (ICACTICT-16), ISSN No.: 978-93-86256-00-3, pp.120-127, organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur during September 23-24, 2016.
- [23] Prem Narayan Verma, **Dr. S. P. Singh**, *Member, IEEE*, Ravindra Kumar and Prem Nath Verma, “Performance Analysis of Non-isolated Two-inductor and cascade boost Converter for Fuel cell applications” in International Conference on Advance

Computational Techniques in Information & Communication Technology (ICACTICT-16), ISSN No.: 978-93-86256-00-3, pp.128-143, organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur during September 23-24, 2016.

- [24] Rajiv Kumar, **Dr. S. P. Singh**, *Member, IEEE*, Dr. Bhavnesh Kumar, “Performance Comparison of SVPWM and ANN based SVPWM technique for Power Quality Improvement” in 6<sup>th</sup> International Conference on Advances in Computing and Communications (ICACC-16), ISSN No.: 1877-0509 , pp.1024-1037, organized by Rajagiri School of Engineering & Technology (RSET), Kochi, India, during September 6-8, 2016 available online at [www.sciencedirect.com](http://www.sciencedirect.com)
- [25] Abhinav Gautam, *Member, IEEE*, **Dr. S. P. Singh**, *Member, IEEE*, Dr. J. P. Pandey, and Dr. T. N. Shukla, “Performance Investigation of Permanent Magnet Synchronous Motor (PMSM) drive supplied from Hybrid Sources” in International Conference on Emerging Trends in Electrical, Electronics, and Sustainable Energy Systems (ICETEESES-16), ISSN No.: 978-93-86777-32-5, pp.210-220, organized by Department of Electrical Engineering and Department of Electronics Engineering, sponsored by TEQIP-II, during March 11-12, 2016, KNIT, Sultanpur (U. P.).  
(Available at IEEE Explorer)
- [26] Vijay Bhagawan Jayaswal, and Abhinav Gautam, *Member, IEEE*, **Dr. S. P. Singh**, *Member, IEEE*, “Optimal Sizing & Siting of DG with Load Models using Genetic Algorithm under different loading Conditions” in International Conference on Emerging Trends in Electrical, Electronics, and Sustainable Energy Systems (ICETEESES-16), ISSN No.: 978-93-86777-32-5, pp.263-169, organized by Department of Electrical Engineering and Department of Electronics Engineering, sponsored by TEQIP-II, during March 11-12, 2016, KNIT, Sultanpur (U. P.).  
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- [27] Jyoti Dubey, **Dr. S. P. Singh**, *Member, IEEE* and Abhinav Gautam, *Member, IEEE*, “Hybrid Electric Vehicles: A state of the Art Review” in International Conference on Advanced and Agile manufacturing Systems ICAM 2015, ISSN No.: 978-93-85777-03-5, pp.442-447, organized by Department of Mechanical Engineering, sponsored by TEQIP-II, during December 28-29, 2015, KNIT, Sultanpur (U. P.).
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