

Dr. Vinod Kumar Yadav

Professor

Department of Electrical Engineering, Delhi Technological University (DTU), Shahbad Daulatpur, Main Bawana Road, Delhi-110042. India

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Educational Details:

Doctorate from Department of Electrical Engineering: (Electrical Power System) (2011; Indian Institute of Technology, Roorkee, Uttarakhand, India)

- ▶ **Thesis Title:** “Efficacy evaluation of Indian Power sector restructuring policy framework”.
- ▶ **Academic Supervisors:**
- ▶ Prof. (Dr.) N. P. Padhy, Dean Academic, IIT Roorkee
- ▶ Prof. (Dr.) Hari Om Gupta, Director, JIIT Noida and Ex-Dean Faculty Affair, IIT Roorkee, Uttarakhand, India.

M. Tech from Department of Electrical Engineering (Power System) (2005; NIT Jamshedpur, Jharkhand)

- ▶ **Dissertation title:** “Transmission line modelling of doubly-fed induction motor taking core loss into account”.
- ▶ **Academic Supervisor:** Dr. A.B. Chattopadhyay, Associate Professor, NIT Jamshedpur, Jharkhand, India.

B. Tech from Department of Electrical Engineering (2003; IET Bareilly, State Government)

Teaching Experience:

- ▶ Associate Professor, Department of Electrical Engineering, Delhi Technological University (DTU), Delhi from 23 March 2018 to till date
- ▶ Associate Professor, Rajkiya Engineering College, Bijnor from 12 December 2017 to 22 March 2018
- ▶ Assistant Professor, Gautam Buddha University, Greater Noida from 07 September 2016 to 11 December 2017.
- ▶ Associate Professor, Galgotias University, Greater Noida from 01 July, 2016 to till 06 September 2016.
- ▶ Assistant Professor, Galgotias University, Greater Noida from 24 November, 2011 to 30 June 2016.
- ▶ Faculty Associate, Gautam Buddha University, Greater Noida from 09/09/2010 to 24/09/2011
- ▶ Lecturer, Vidya College of Engineering from 1 August 2006 to 24 July 2007.
- ▶ Lecturer, Radha Govind Engineering College Meerut from 25/July/2005 to 31/July/2006

Awards and Honours:

- ▶ Commendable Research Award from Delhi Technological University, 2021.
- ▶ Commendable Research Award from Delhi Technological University, 2020.
- ▶ Best Teacher Award from National Education Association, Uttar Pradesh, October 1, 2016
- ▶ Secured 95.42 Percentile and all India Rank 821, GATE Examination conducted by IIT Chennai in 2003.
- ▶ Received prestigious MHRD Scholarship during M. Tech and Ph. D. period.

- ▶ Published research papers in international journals like IEEE Transactions, IET, Elsevier Science, Taylor & Francis, Wiley, etc.
- ▶ Presented/Published research papers at several premier technical conferences held world-wide (USA, Canada, New Zealand, China & India)
- ▶ Coordinator of organizing committee “IEEE Student Chapter Workshop” Galgotia’s University, Gr. Noida 07th December 2012.
- ▶ Invited Reviewer of reputed International Journals like Energy, Elsevier Science, Renewable & Sustainable Energy Reviews, Elsevier Science, international journal of emerging electric power systems and IEEE General Meeting.
- ▶ Secured Gold medal in relay race and Silver Medal in Long Jump held at NIT Jamshedpur in 2004.

Responsibilities:

- ▶ Director (I/C), Rajkiya Engineering College, Bijnor
- ▶ Dean Academic, Rajkiya Engineering College, Bijnor
- ▶ Head, Department of Electrical Engineering, Rajkiya Engineering College, Bijnor
- ▶ Ph.D Coordinator at School of Engineering, Gautam Buddha University, Gr. Noida from 15 Feb 2016 to 11 December 2017.
- ▶ Group Coordinator of Power System, Department of Electrical Engineering, Gautam Buddha University, Gr. Noida, from 11 September 2016 to till date.
- ▶ Hostel Warden, Shri Chhatrapati Sahu Ji Maharaj Boys Hostel, Gautam Buddha University, Gr. Noida from 26 October 2017 to till date
- ▶ Ph.D Coordinator in School of Electrical, Electronics & Communication Engineering, Galgotias University, Gr. Noida from December 2012 to July 2013.
- ▶ M.Tech Project (Dissertation) Coordinator School of Electrical, Electronics & Communication Engineering, Galgotias University, Gr. Noida from September 2013 to 06th September 2016.
- ▶ Division Chair (Head Power and Energy Group), Galgotias University Gr. Noida. From December 2012 to 06th September 2016.
- ▶ Program chair (Department of Electrical Engineering), Galgotias University, Gr. Noida. From September 2013 to July June 2014.
- ▶ Established power system Simulation lab in Gautam Buddha University Gr. Noida.
- ▶ Hostel Worden Birsa Munda Boys Hostel Gautam Buddha University, Gr. Noida from 2010.

Expert Lectures:

- ▶ Expert lecture: “Recent Advancements and Future Scope of Research in Electrical & Electronics Engineering,” 6th -10th September 2021” RKGIT, Ghaziabad, India.
- ▶ Expert lecture: “Recent Trends of artificial intelligence in electronics devices and systems,” July 19-24 2021, JIIT, Noida, India.

- ▶ Expert lecture: On Recent Research Trends in Electrical Engineering 14-18 July 2020, School of Engineering, Gautam Buddha University, Greater Noida.
- ▶ Expert lecture: on "Human Values and Ethics" July 7th, 2020, Sharda University, Greater Noida.
- ▶ Expert lecture: on "Role of Energy Management in Smart City" June 16th, 2020. Sharda University, Greater Noida.
- ▶ Expert lecture: on "Recent Trends in Renewable Energy Systems and Their Control (RESC-2020)," TEQIP-III Sponsored Online Short-Term Course (September 14-18, 2020), Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab (India).
- ▶ Expert lecture: on "Stability Analysis, Protection and Control of Microgrid," TEQIP-III Sponsored Online Short-Term Course (September 25-29, 2020), Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab (India).
- ▶ Expert Lecture: National Symposium on Power and Control Engineering (SPACE 2016) held on 31 March 2016 at Amity University.
- ▶ Expert Lecture on Recent Developments in Electrical Power Systems of Technical Education Quality Improvement Programme Phase-III (TEQIP-III) at Department of Electrical and Electronics Engineering, JSS Noida.

Faculty Development Programme (FDP) Organised:

- ▶ Organised one Week TEQIP-III Sponsored Faculty Development Programme on "Recent Research Directions and Key Concepts in Electrical Engineering" Department of Electrical Engineering, DTU, Delhi, 2nd -6th December, 2019.

Workshop Attended:

- ▶ Robotics-An Application in Medical Science, December, 1-5 2020, ATAL Academy, Department of Electrical Engineering, Maulana Azad National Institute of Technology, Bhopal, India.
- ▶ Gender Equality and Violence against Women during COVID-19, October, 09-13 2020, TEQIP-3, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India.
- ▶ Recent Trends on Facts & Renewable Energy Sources (RTFRES-2020), November, 24th to 29th 2020, Department of Electrical Engineering, National Institute of Technology Jamshedpur, India.
- ▶ Power Quality in Deregulated Power System with MATLAB Application, 06-11 June 2016, TEQIP-II, Organized by Department of Electrical Engineering, National Institute of Technology (NIT) Hamirpur, Himachal Pradesh, India.
- ▶ Advances in Solar Energy Technologies, 09-15 December 2014, Quality Improvement Programme (QIP), AICTE Government of India, organized by Centre for Energy Studies, IIT Delhi, India.
- ▶ Research Methodology & Quantitative Techniques with Software Applications, 09-20 June 2008, IIT Roorkee, Sponsored by AICTE, MHRD Govt. of India.

- ▶ Recent Trends in Wireless Communication & Techniques, 02-15 July, 2012, Galgotia's College of Engineering & Technology, Greater Noida, Sponsored by AICTE, MHRD Govt. of India.
- ▶ CEL Leadership & Personality Development, January 10-18, 2012, Galgotia's University, Greater Noida (UP).
- ▶ Human Values and Professional Ethics, July 29 – August 5, 2013, Gautam Buddh Technical University, Lucknow (UP), India.
- ▶ Proven Strategies for Effective Teaching, August 29-31, 2013, organized by the Galgotia's University, and conducted by Rowan University (USA).

Details of Ph.D. Candidates:

	Name of the scholars	Title of the Thesis	Status/Year
1.	R. Peesapati	Efficacy Evaluation of Indian Power Distribution Utility in a Deregulated Environment	Awarded/ 2018
2.	Mr. S. Ghosh	Mitigation of Environmental Impact on Photovoltaic Performance	Awarded/ 2019
3.	Mrs. D. Asija	Congestion Management and Robustness Enhancement in Power System using Distributed Generators with Energy Storage Devices	Awarded/ 2019
4.	Anu Sigla	Transmission Congestion Management in Deregulated Environment	Awarded/ 2020
4.	Mr. Kapil Bodha	Combined economic emission dispatch of power system using optimization techniques	On going
5.	Mr. Mandhir Verma	Distribution network expansion planning under uncertainty in deregulated power system.	Awarded/ 2020
6.	Mr. Shubham Gupta	Peer to Peer (P2P) Energy Trading in Smart Grids	On going
6.	Mr. Ranjeet Singh	Design, Development and Investigation of Mitigation Control Strategies for Power Quality Issues in grid-Tied PV System	On going
8.	Mr. Nikhil Kuswaha	Holistic Approach for Enhancement of PV Performance	On going
9.	Mr. D. Saravanan	Energy Management for Solar Photovoltaic with Grid Integration	On going
10	Mr. Manish Singh	Congestion Management Considering Optimal Placement of DG in Deregulated Power System Networks	On going
11	Mrs. Shalu	Hot spot mitigation of PV module and Efficiency improvement directions	On going

Number of M.Tech students supervised: 31

Professional Association:

- i. Senior Member IEEE (92377446)
- ii. Member, International Association of Engineers (138795)

Patent:

- [1] S. Ghosh, **Vinod Kumar Yadav**, V. Mukherjee, "Hotspot Mitigation Circuit for Photovoltaic Module," 2018, Application number (201821048295).

Major Publications:

Book -Chapter Published:

- ❖ K. Yadav, G. Mehta and Vinod Kumar Yadav, "Power Quality Improvement with Harmonic Reduction using P-Q Theory-based Shunt Active Power Filter," ICSEAPT, NIT Jamshedpur, 2021.
- ❖ A. Yadav, A. Mittal, N.H.Wazir, Vinod Kumar Yadav and Santosh Ghosh, "Power Enhancement Analysis of PV Array by reconfiguration using Switching Technique under Shading Conditions," "Recent Trends on FACTS & Renewable Energy Sources (RTFRES-2020)"Department of Electrical Engineering, NIT, Jamshedpur from 24th- 29th, 2020.
- ❖ A. Yadav, **Vinod Kumar Yadav** and S. Ghosh, "Performance Investigation of Various Bypass Diode Topologies Based SDK-PV Array Under Shading Conditions," ICEEE, 2020.
- ❖ S. Gupta, Vinod Kumar Yadav and S. Ghosh, "Non-Parametric Frontier Analysis Models For Relative Performance Evaluation," ICEEE, 2020.
- ❖ K. P. Palawat, Vinod Kumar Yadav, R. L. Meena, "Performance evaluation of solar PV array under various partial shading conditions," Electric Power and Renewable Energy Conference (EPREC-2020), Springer.
- ❖ R. Peesapati, N. Kumar, **Vinod Kumar Yadav** and G. Mehta, "Line flow indices for placement of distributed energy sources in relieving transmission line congestion," *ICICCD, April 2 – 3, 2016, Springer*.
- ❖ P. Yadav, A. Kumar, A. Gupta, R.K. Pachauri, Y.K. Chauhan and **Vinod Kumar Yadav** "Investigations on the Effects of Partial Shading and Dust Accumulation on PV Module Performance", *ICICCD – 2016, April 2 – 3, 2016*.
- ❖ G. Mehta, **Vinod Kumar Yadav**, R. Gupta "Design and analysis of SEPIC Converter based single stage three-phase inverter," *ICICCD, Advances in Intelligent Systems and Computing, 2017, Springer*.
- ❖ K.P. Palawat, **Vinod Kumar Yadav**, R.L. Meena and S. Ghosh, "Experimental Investigation of Performance of PV Array Topologies under Simulated PSCs," *Applied Soft Computing & Embedded System Application in Solar Energy, CRC Press, Taylor & Francis, 2020*.

Refereed Journals Papers

2021

- ❖ S. Gupta, Vinod Kumar Yadav, M. Singh, “Optimal Allocation of Capacitors in Radial Distribution Networks using Shannon’s Entropy,” *IEEE Transactions on Power Delivery*, Impact Factor: 4.131. DOI: 10.1109/TPWRD.2021.3107857.
- ❖ S. Ghosh, Vinod Kumar Yadav, V. Mukherjee, S. Gupta, “Critical review of Indian power sector reform strategies through combined Shannon’s entropy and data envelopment analysis model,” *Utilities Policy*, vol. 68, February, 101158, 2021.
- ❖ K. Bodha, Vinod Kumar Yadav, V. Mukherjee, “A novel quantum inspired hybrid metaheuristic for dispatch of power system including solar photovoltaic generation,” *Energy Sources, Part B: Economics, Planning, and Policy*, vol 16, (6), 558-583, 2021. Taylor & Francis, Impact Factor: 3.205.
- ❖ Arshia, Preeti, Nandani, Vinod Kumar Yadav, S. Ghosh “Evaluation of Relative Performance of Indian States in PV Resource Utilization through MPI,” *International Journal of Emerging Electric Power System Research*, 2021. <https://doi.org/10.1515/ijeeps-2021-0150>.

2020

- ❖ S. Ghosh, **Vinod Kumar Yadav**, V. Mukherjee, “A Novel Hot Spot Mitigation Circuit for Improved Reliability of PV module,” *IEEE Transactions on device materials and reliability*, vol. 20, (1), pp 191 – 198, 2020, Impact Factor 1.407, (SCI).
- ❖ M. K. Verma, V. Mukherjee, **Vinod Kumar Yadav**, and S. Ghosh, “Indian power distribution sector reforms: A critical review,” *Energy Policy*, Elsevier, vol. 144, pp. 1-14, March, 2020. Elsevier. Impact Factor: 5.042, (SCI).
- ❖ A. Singla, K. D. Singh, **Vinod Kumar Yadav**, “Optimizing Distributed Solar Photovoltaic Power Generation in Day-Ahead Electricity Market Incorporating Irradiance Uncertainty,” *Journal of Modern Power System and Clean Energy*, Impact Factor, 2.848, (SCI), 2020, (Accepted). DOI: 10.35833/MPCE.2019.000164
- ❖ R. Anand, Y. K Chauhan, **Vinod Kumar Yadav** and R. Pachauri, “Experimental system design for online characterization and performance analysis of PV module under distinguish environmental conditions,” *EAI Endorsed Transactions*, vol. 7 (28), 2020. (Scopus Indexed)
- ❖ M. K. Verma, V. Mukherjee, **Vinod Kumar Yadav**, and S. Ghosh, “Constraints for effective distribution network expansion planning: an ample review,” *Int J Syst Assur Eng Manag* 11, pp. 531–546, 2020. <https://doi.org/10.1007/s13198-020-00969-w>.

2019

- ❖ **Vinod Kumar Yadav**, K.D. Singh, S. Gupta, “Market-Oriented Transmission Expansion Planning Using Non-Linear Programming and Multi-Criteria Data Envelopment Analysis,” *Sustainable Energy, Grids and Networks*, vol. 19, pp. 1-12, September, 2019, Elsevier, Impact Factor 3.182. (SCI).
- ❖ S. Ghosh, **Vinod Kumar Yadav**, V. Mukherjee, “Improvement of partial shading resilience of PV array though modified bypass arrangement,” *Renewable Energy*, vol. 143, pp. 1079–1093, December, 2019. Elsevier, Impact Factor 5.439, (SCI).

- ❖ K. Bodha, **Vinod Kumar Yadav**, V. Mukherjee, “Formulation and Application of Quantum-Inspired Tidal Fireflies Technique Algorithm for multiple-objective mixed cost-effective emission dispatch,” *Neural Computing and Applications*, August, 2019, Springer, Impact Factor 4.664, (SCI).
- ❖ S. Ghosh, **Vinod Kumar Yadav**, V. Mukherjee, “Impact of environmental factors on photovoltaic performance and their mitigation strategies a holistic review,” *Renewable Energy Focus*, vol. 28, pp. 153-172, March, 2019. Elsevier. (SCI-E).
- ❖ M.K. Verma, **Vinod Kumar Yadav**, V. Mukherjee, S. Ghosh “A multi-criteria approach for distribution network expansion through pooled MCDEA and Shannon Entropy,” *International Journal of Emerging Electric Power Systems*, 20190043. (SCI-E), August, 2019.
- ❖ A. Singla, K. D. Singh, **Vinod Kumar Yadav**, “Transmission Congestion Management Considering Modelling of Solar Photovoltaic Distributed Generator in Deregulated Power System,” *Int. Journal of Recent Technology and Engineering (IJRTE)*, vol. 8 (3), (Scopus), September, 2019.
- ❖ M.K. Verma, **Vinod Kumar Yadav**, V. Mukherjee, “Constraints for effective distribution network expansion planning-a comprehensive review,” *International Journal of System Assurance Engineering and Management*,(SCI-E), 2019.

2018

- ❖ R. Peesapati, A. Yadav, **Vinod Kumar Yadav**, N Kumar, “GSA-FAPSO-Based Generators Active Power Rescheduling for Transmission Congestion Management,” *IEEE System Journal*, Impact Factor 4.463, (SCI), 2018.
- ❖ R. Peesapati, **Vinod Kumar Yadav**, N. Kumar, “Flower pollination algorithm based multi-objective congestion management considering optimal capacities of distributed generations,” *Energy*, vol. 147, pp. 980-994, 2018, Elsevier, Impact Factor: 5.439, (SCI).
- ❖ S. Ghosh, **Vinod Kumar Yadav**, V. Mukherjee, “Evaluation of Cumulative Impact of Partial Shading and Aerosols on Different PV Array Topologies through Combined Shannon’s Entropy and DEA,” *Energy*, vol. 144, pp. 765-775, 2018, Elsevier, Impact Factor 5.537, (SCI).
- ❖ T. Bahar, O.V. Singh, **Vinod Kumar Yadav**, “Optimal Planning Strategies of DG in Distribution Systems,” 245, vol. 2, 2018.

2017

- ❖ S. Ghosh, **Vinod Kumar Yadav**, V. Mukherjee, P. Yadav “Evaluation of relative impact of aerosols on photovoltaic cells through combined Shannon's entropy and Data Envelopment Analysis (DEA),” *Renewable Energy*, vol. 105, pp. 344-353, 2017, Elsevier, Impact Factor 5.439, (SCI).
- ❖ R. Peesapati, **Vinod Kumar Yadav**, N. Kumar, “Transmission congestion management considering multiple and optimal capacity DGs”, *Journal of Modern Power System and Clean Energy*, vol. 5, pp. 713-724, 2017, Springer, Impact Factor 2.848, (SCI).

- ❖ N. Mishra, A. S. Yadav, R. Pachauri, Y. K. Chauhan, **Vinod Kumar Yadav**, “Performance enhancement of PV system using proposed array topologies under various shadow patterns,” *Solar Energy*, vol. 157, pp. 641-656, 2017. Elsevier, Impact Factor 4.674, (SCI).
- ❖ D. Asija, K.M. Soni, S.K. Sinha, **Vinod Kumar Yadav**, “LMP Difference Approach for Management of Transmission Congestion,” *Advance in Power System and Energy Management*, DOI: <https://doi.org/10.1007/978>, 2017, (Scopus).
- ❖ D. Asija, K.M. Soni, S.K. Sinha, **Vinod Kumar Yadav**, “Multi-objective optimization and network security enhancement for congestion management in wholesale electricity market,” *International Journal of System Assurance Engineering and Management*, vol. 8, pp. 1775–1782, 2017, (SCIE).
- ❖ G. Mehta, R.P. Singh, **Vinod Kumar Yadav**, “Optimization of combined economic emission dispatch problem using artificial bee colony method,” *International Journal on Cybernetics & Informatics (IJCI)*, vol. 6, pp. 107-118. 2017.

2016

- ❖ M. Kumar, V. Mukherjee and **Vinod Kumar Yadav**, “Greenfield distribution network expansion strategy with hierarchical GA and MCDEA under uncertainty” *International Journal of Electrical Power & Energy Systems*, vol. 79, pp. 245–252, 2016, Elsevier, Impact Factor 4.418, (SCI).
- ❖ R. Peesapati, **Vinod Kumar Yadav**, N. Kumar, “Assessment Temporary Over voltages During Network of Lines Re-Energization,” *Advances in Electrical and Electronic Engineering*, vol. 14 (3) pp. 227-235, 2016, (ASCI-ACR), (Scopus).

2015

- ❖ **Vinod Kumar Yadav**, N.P. Padhy and H.O. Gupta, “A Holistic approach model for realistic goal setting for efficiency enhancement with application to Indian power sector,” *International Journal of Energy Source, Part B: Economics, Planning, and Policy*, vol. 10, pp. 120-131, 2015. Taylor and Francis, Impact Factor 3.205, (SCI).

2014

- ❖ K.D. Singh, **Vinod Kumar Yadav**, N.P. Padhy and J.D. Sharma, “Congestion Management Considering Optimal Placement of Distributed Generator in Deregulated Power System Networks,” *Electric Power Components and Systems*, vol. 42, no.1, pp. 13–22, 2014, Taylor & Francis, Impact Factor 1.22, (SCI).
- ❖ **Vinod Kumar Yadav**, N. Kumar, S. Ghosh and K.D. Singh “Indian Thermal Power Challenges and Remedies via Application of Modified Data Envelopment Analysis,” *International Transactions in operational Research*, vol. 21, issue 6, pp. 871-1062, (doi: 10.1111/itor.12112), 2014, Wiley, Impact Factor 2.341, (SCI).
- ❖ **Vinod Kumar Yadav**, N.P. Padhy and H.O. Gupta, “The evaluation of the efficacy of ongoing reform initiative of an Indian Electric Utility,” *International Journal of Energy Source, Part B: Economics, Planning, and Policy*, vol. 9, pp. 291-300, 2014. Taylor & Francis, Impact Factor 3.205, (SCI).
- ❖ VVR. Peesapati, N. Kumar, and **Vinod Kumar Yadav**, “Judgment of Temporary over Voltages during Transformer Refurbishment” *International Journal of Computer Applications*, (0975 – 8887) Vol. 108 – no. 2, pp. 39-42, 2014, Impact Factor 3.12, (Google Scholar).

2013

- ❖ **Vinod Kumar Yadav**, Y. K. Chauhan, N.P. Padhy and H.O. Gupta, "A Novel Power Sector Restructuring Model Based on Data Envelopment Analysis (DEA)," *International Journal of Electrical Power & Energy Systems*, vol. 44, pp. 629-637, 2013, Elsevier, Impact Factor 4.418, (SCI).
- ❖ Y. K. Chauhan, **Vinod Kumar Yadav** and Bhim Singh "Optimum Utilization of Self-Excited Induction Generator" *IET, Electric Power Applications*, vol. 7, issue 9, pp. 680-692, 2013, Impact Factor 3.015, (SCI).
- ❖ R. Gupta, D. K. Jha, **Vinod Kumar Yadav** and S. Kumar, "A Multi-Agent Framework for Operation of a Smart Grid" *International Journal of Energy and Power Engineering*, vol. 5, pp.1330-1336, 2013, (Scopus).

2012

- ❖ K.D. Singh, **Vinod Kumar Yadav** and Arvind Dhingra, "Congestion Management Using Optimal Placement of TCSC in Deregulated Power System," *International Journal on Electrical Engineering and Informatics (IJEEL)*, vol.4, no.4, 2012, (Scopus).

2011

- ❖ **Vinod Kumar Yadav**, N.P. Padhy and H.O. Gupta, "Performance Evaluation and Improvement Directions for an Indian Electric Utility," *Energy Policy*, vol. 39, pp. 7112-7120, 2011, Elsevier, Impact Factor 4.88, (SCI).

2010

- ❖ **Vinod Kumar Yadav**, N.P. Padhy and H.O. Gupta, "A micro level study of an Indian electric utility for efficiency enhancement," *Energy Journal*, vol. 35, pp. 4053-4063, 2010, Elsevier, Impact Factor 5.439, (SCI).

Reputed International Conference

2021

- ❖ G. Mehta, R. Khanam, Vinod Kumar Yadav, "A Novel IoT based Smart Energy Meter for Residential Energy Management in Smart Grid Infrastructure," IEEE, SPIN Conference 2021, Amity University.
- ❖ A. Thukral, P. Goyal, N. Varshney and Vinod Kumar Yadav, "An Efficiency Assessment of State Owned Indian Electric PV Utilities," IEEE, 8th International Conference on Signal Processing & Integrated Networks (SPIN 2021) Amity University, Noida.
- ❖ K. Yadav, G. Mehta, Vinod Kumar Yadav, "Power Quality Improvement with Harmonic Reduction using P-Q Theory-based Shunt Active Power Filter," ICSEAPT, 2021, NIT Jamshedpur.

2020

- ❖ K. P. Palawat, Vinod Kumar. Yadav, R. L. Meena, S. Ghosh, "Comparative Performance of Different PV Array Topologies under Partial Shading Conditions, Innovations in Electrical and Electronic Engineering, 2020.
- ❖ S. Singh, V. K. Tayal, H. P. Singh, Vinod Kumar Yadav, "Performance Analysis Of Proton Exchange Membrane Fuel Cell (PEMFC) with PI And FOPI Controllers," Latest Trends in Renewable Energy Technologies, 2020.

2019

- ❖ M.K. Verma, V. Mukherjee, **Vinod Kumar Yadav**, “A Review on Optimization Methodologies for Distribution Network Expansion Planning,” *IEEE, Int. Conference on Computing, Power and Communication Technologies (GUCON)*, 2019.
- ❖ S. Gupta, K. Singh, **Vinod Kumar Yadav**, “Transmission Expansion Planning in Deregulated Electricity Market using Multi-Criteria Data Envelopment Analysis,” *8TH IEEE International Conference on Power System (ICPS)*, December 2019.
- ❖ T. Bahar, O.V. Singh, **Vinod Kumar Yadav** “Multiple Dispersed Generation Allocation using Analytical Approach,” “*International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE)*, October, 2019.
- ❖ T. Bahar, O.V. Singh, **Vinod Kumar Yadav** “Interval Derivatives Based Approach for Multiple DGs Allocation Considering Variation in Input Parameters,” “*International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE)*, October, 2019.

2018

- ❖ G. Mehta and **Vinod Kumar Yadav**, “Impact of Renewable Distributed Generators in Competitive Electricity Markets Considering Economic Factors,” *IEEE International Conference, IIT Chennai*, 2018.
- ❖ G. Mehta, **Vinod Kumar Yadav**, “Design of Photovoltaic and Fuel Cells based Distributed Generation System: Entire System Survey” *IEEE, International Conference on Computing, Power and Communication Technologies (GUCON)*, pp. 1034 – 1037, 2018.
- ❖ G. Mehta, G. Mittra, **Vinod Kumar Yadav**, “Application of IoT to optimize Data Center operations,” *IEEE, International Conference on Computing, Power and Communication Technologies (GUCON)* , pp. 738 – 742, 2018.
- ❖ K. Bodha, V. Mukherjee, **Vinod Kumar Yadav**, S. Kumar., S. Anium, “A Levy Flight Based Voltage Particle Swarm Optimization for Multiple-Objective Mixed Cost-Effective Emission Dispatch,” *2018 8th International Conference on Cloud Computing, Data Science & Engineering (Confluence)*.
- ❖ M. Bhaskar, N. Singh Pal, **Vinod Kumar Yadav**, “A Comparative Performance Analysis of Automatic Generation Control of Multi-Area Power System Using PID, Fuzzy and ANFIS Controllers,” *2nd IEEE International Conference on Power Electronics, Intelligent Control*, 2018.
- ❖ G. Mehta, **Vinod Kumar Yadav**, “Analysis of Energy Aware Routing Techniques in Wireless Sensor Networks”, *2nd IEEE International Conference on Power Electronics, Intelligent Control*, 2018.
- ❖ A. Singh Yadav, **Vinod Kumar Yadav**, S. Chaudhary, “Power Enhancement from Solar PV Array Topologies under Partial Shading Condition, *International Conference on Power Energy, Environment and Intelligent Control (PEEIC)*, pp. 379 – 383, 2018.
- ❖ T. Sharma, M.K. Singh, N.S. Pal, **Vinod Kumar Yadav**, “Investigation for best Interconnection of PV Array for Partial Shading,” *5th International Conference on “Computing for Sustainable Global Development”*, 2018.
- ❖ M. K. Verma, **Vinod Kumar Yadav**, V. Mukherjee, G. Mehta, “Planning and Optimization the Cost of DGs for Stability of Green Field Distribution Network,” *3rd IEEE Int. Conference on Internet of Things: Smart Innovation and Usage (IoT-SIU), Uttarakhand*, 2018.

- ❖ M. K. Verma, **Vinod Kumar Yadav**, V. Mukherjee, “Objective Functions of Distribution Network Expansion Planning- A Comprehensive and Exhaustive Review,” *Int. Conference on Startup ventures: Technology developments and future strategies (SV-TDFS), Jaipur, 2018*.
- ❖ A. Singla, R. Pandey, R. Sharma, J. Madan, K. Singh, **Vinod Kumar Yadav** ; R. Chaujar, “Numerical Simulation of CeOx ETL based Perovskite Solar Cell:- An Optimization Study for High Efficiency and Stability ,” *IEEE Electron Devices Kolkata Conference (EDKCON), 2018*.

2017

- ❖ S. Ghosh, **Vinod Kumar Yadav**, G. Mehta, R. Birajdar, “Evaluation of Indian Power Sector Reform Strategies and Improvement Direction though DEA, IEEE General Meeting, 2017, Chicago, USA.
- ❖ S. M. Danish, G. Mehta, **Vinod Kumar Yadav**, “Assessing the performance of Partially Shaded PV array under different radiations,” *IEEE, 8th International Conference on Computing Communication and Networking Technologies, IIT, Delhi, 2017*.
- ❖ G. Mehta, **Vinod Kumar Yadav**, M. Dwivedi, “Comparison of Advance Intelligence Algorithms for Maximum Power Point Tracking,” *IEEE, UPCON 2017*.

2016

- ❖ **Vinod Kumar Yadav**, G. Mehta, R. Kumari, R.D. Patidar, “Effect of DSTATCOM and DVR on Improvement of Power Quality” *International Conference on Advances in Steel, Power and Construction Technology, O.P. Jindal University, Raigarh, Chhattisgarh, 2016*.
- ❖ R. Peesapati, N. Kumar, **Vinod Kumar Yadav**, Congestion Management Considering Optimal Capacity DGs by Flower Pollination,” *IEEE – EEEIC, 2016*.
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