# Dr. Vinod Kumar Yadav

# Professor

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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, Professor, IIT Roorkee and Director, MNIT, Jaipur.
- Prof. (Dr.) Hari Om Gupta, Ex-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:

- Professor, Department of Electrical Engineering, Delhi Technological University (DTU), Delhi from 23 March 2021 to till now.
- Associate Professor, Department of Electrical Engineering, Delhi Technological University (DTU), Delhi from 23 March 2018 to 22 March 2021.
- 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:

Received a "Premier Research Award" DTU, 2024.

- Received "Commendable Research Award" basis of six best research papers, DTU, 2024.
- Received a "Premier Research Award" DTU, 2023.
- Received "Commendable Research Award" basis of three best research papers, DTU, 2023.
- Received "Commendable Research Award" basis of a best research paper, DTU, 2022.
- Received "Commendable Research Award" basis two best research papers, DTU, 2021.
- Received "Commendable Research Award" basis two best research papers, DTU, 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.

#### Responsibilities:

- **Secretary**, screening the applications for the post of Assistant Professor, Bio-Technology (2020) DTU.
- Secretary, presentation committee for the post of Assistant Professor in the discipline of Electronics & Communication Engineering (2020) DTU.
- Secretary, presentation committee for the post of Professor in the discipline of Economics (2020) DTU.
- Secretary, presentation committee for the post of Assistant Professor in the discipline of Computer Engineering/Information Engineering/Software Engineering (2020) DTU.
- **Secretary,** screening the applications for the post of Controller of Finance, (2020) DTU.
- Member, Departmental Purchase Committee (DPC), from 2019-till date.
- Member, Departmental Research Committee (DRC) 2018-2023, DTU.
- Member, Central Committee/Special committee (University Technical Evaluation) 2019.
- M. Tech (PSY) DTU, Co-coordinator from 13 August 2018
- Organize, Industrial visit, Tehri Hydro Development Corporation Ltd (THDC) and BHL Hridwar from April 3-7, 2018.
- Organize, Industrial visit, NTPC Dadri on 24 Jan, 2019.
- Organize, Industrial visit, NTPC Dadri on 23 Feb, 2019.
- Overall coordination committee, Convocation, 2019.
- Member for scrutinizing and screening the various posts in Engineering cell 2018.
- 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 06<sup>th</sup> September 2016.
- Division Chair (Head Power and Energy Group), Galgotias University Gr. Noida. From December 2012 to 06<sup>th</sup> 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:** Performance Evaluation and recent advancement in solar Photovoltaic, 20-July-2024, IFTM, Moradab, India.
- **Expert lecture:** Recent Research Trends in Electrical Engineering," 2023, Amity University, Noida, India.
- Expert lecture: On Recent Advancements and Future Scope of Research in Electrical & Electronics Engineering, 6<sup>th</sup> -10<sup>th</sup> September 2021" RKGIT, Ghaziabad, India.
- **Expert lecture:** On Recent Research Trends in Electrical Engineering, 14-18 July 2020, School of Engineering, Gautam Buddha University, Greater Noida, India".
- **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:** on 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.
- Keynote Speaker "National Conference on emerging trends for sustainable development in engineering and technology" SS College of Engineering, Udaipur, Rajasthan, 30 – 31 Jan, 2014.
- Keynote Speaker "National Conference on emerging trends for sustainable development in engineering and technology" SS College of Engineering, Udaipur, Rajasthan, 30 – 31 Jan, 2014.

#### Selection Committee/BoS Members in other Universities:

- External Expert, RAC, I&D & EED (2021-2024) NSUT, Delhi
- External Expert, Ph.D. admission (2022, 2024), department of ICE and EE, NSUT.
- External Expert, BOS, (2020-2024) IFTM University, Moradabad
- External Expert, DC Committee (2018-2024), Galgotia's University, Greater Noida
- Member, DRC for two years (1st october2023 to till date), IGDTUW, Delhi
- Member, Academic Audit Committee (2024), ICE, NSUT, Delhi
- External Expert, fellowship enhancement (2023), NIT Jamshedpur.
- External Expert, RDC Meeting (Feb. 2024), VMSB-UTU, Dehradun.
- External Expert, Selection Committee, EED (2023), RTU, Kota.
- External Expert, Selection Committee, EED (2019, 2020, 2021, 2022, 2023 & 2024), REC Bijnor, UP.
- External Expert, Selection Committee, (2023 & 2024), REC Azamgarh, UP.
- External Expert, Research faculty Selection committee, Department of Electrical and Instrumentation Engineering, Committee (2024), Thapar, Institute of Engineering & Technology, Patiala Punjab.
- Member, BOS, for approval of the scheme and syllabus of M.Tech, under the NEP, ICE, NSUT, Delhi.
- More than 40 Ph.D. thesis evaluated at different NITs/Universities.

Member of Different Advisory /Technical committee:

- Member of Technical Programme Committee "International Conference on Computing, Power and Communication Technologies (GUCON) 2018.
- Member of Technical Programme Committee "ICACE, 2018.
- Member of Technical Committee "IEEE advancing Technology for humanity" MJP Rohilkhand University, Bareilly February 21-23, 2015.
- Member of Technical Committee "International conference on futuristic in Computational analysis and knowledge management" Amity University Greater Noida, February 25-27, 2015.
- Member of Advisory Committee "1<sup>st</sup> International Conference on Emerging Advance Technologies for Human Development EATHD-2012" Shanti Institute of Technology Meerut (U.P.)-250501, India.
- Member of Technical Committee "1<sup>st</sup> National Conference on Emerging Trends & Enhancement in Engineering and Technology.
- Member of Advisory Committee "National conference on Electronics, Communication & Information Systems NCECIS 11-12 October 2013" United College of Engineering & Research, Greater Noida, India.
- Session Chair of Recent Development in Control, Automation and Power Engineering RDCAPE -2015 held on 12-13 March 2015 at Amity University, Noida (UP), India.
- Session Chair in 2<sup>nd</sup> International Conference on Intelligent Communication, Control and Devices (ICICCD-2017) held on 15-16 April, 2017 at University of Petroleum & Energy Studies, Dehradun, India.
- Session Chair and Keynote speaker of IEEE International Conference on Power Energy, Environment and Intelligent Control (PEEIC-2018) at G.L. Bajaj Institute of Technology & Management, Greater Noida.

Session Chair and Keynote speaker of 2<sup>nd</sup> International Conference on Futuristic Trends in Computational Analysis and Knowledge Management, held on 23-24 March 2017 at Amity University, Greater Noida (UP), India.

# Organised CONFERENCE/WORKSHOP:

	Organised as an General Chair, IEEE- 3 <sup>rd</sup> International Conference on Power Electronics , Intelligent Control & Energy Systems (ICPEICES) 24 -26 April 2024, Department of Electrical Engineering, DTU, Delhi						
Sr. No	Name of the Event	Title	Date	Responsibility			
1.	<b>3</b> rd <b>IEEE</b> Conference-2024	International Conference on Power Electronics , Intelligent Control & Energy Systems (ICPEICES)	24-26 April- 2024	General Chair			
2.	One week Faculty Development Programme (Sponcered by TEQIP-III)	Recent Research Directions and Key Concepts in Electrical Engineering	2–6 Dec 2019	Co-coordinator			
3.	<b>One day</b> Faculty Development Programme (FDP)	Electric Vehicle Technologies and Proposal writing for government funding under PRISM Scheme	31st May 2022	Coordinator			
4.	<b>One-Day</b> LATEX-Workshop	Technical Writing using LATEX	10th Sept. 2024	Coordinator			
5.	One week Exploring Engineering	Exploring Engineering	2018	Coordinator			
6.	One week Exploring Engineering	Exploring Engineering	Jun10-15 2019	Coordinator			
7.	One week Exploring Engineering	Exploring Engineering	2023	Coordinator			
8.	One week Exploring Engineering	Exploring Engineering	July 1-6 2024	Coordinator			
<b>N</b>							

# 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).

	Name of the	Title of the Thesis	Name of the	Status/Year		
	scholar	Institute/University				
1.	R. Peesapati	Efficacy Evaluation of Indian Power Distribution	NIT,	Awarded-		
		Utility in a Deregulated Environment	Jamshedpur	2018		
2.	Mr. S. Ghosh	Mitigation of Environmental Impact on	IIT,	Awarded-		
		Photovoltaic Performance	Dhanbad	2019		
3.	Mrs. D. Asija	Congestion Management and Robustness	Amity University,	Awarded-		
		Enhancement in Power System using Distributed	Noida	2019		
		Generators with Energy Storage Devices				
4.	Anu Sigla	Transmission Congestion Management in	Punjab Technical	Awarded-		
		Deregulated Environment	University	2021		
5.	Mr. Kapil Bodha	Combined economic emission dispatch of power	IIT,	Awarded-		
		system using optimization techniques	Dhanbad	2020		
6.	Mr. Mandhir Verma	Distribution network expansion planning under	IIT,	Awarded-		
		uncertainty in deregulated power system.	Dhanbad	2020		
7.	Mr. Shubham Gupta	r. Shubham Gupta Comprehensive Techno-Economic Improvement		Awarded-		
		Directives for Smart Distribution System		2024		
8.	Mrs. Swati Singh Performance Enhancement of Renewable Energy		Amity University,	Awarded-		
		Systems Using Artificial Intelligence Control	Noida	2024		
9.	Mr. Ranjeet Singh	Analysis and Performance Enhancement of Solar	DTU, Delhi	On going		
		Photovoltaic Systems Under Sub-Optimal				
		Operating Conditions.				

# Details of Ph.D. Candidates:

10.	Mr. Nikhil Kuswaha	Holistic Approach for Enhancement of PV			DTU, Delhi	On going	
		Performance					
11.	Mrs. Swatilekha	Hot spot mitigation of PV module and Efficiency			DTU, Delhi	On going	
	Ghosh	improvement directions					
12.	Mrs. Anshika Pathak	Performance	Evaluation	and	Improvement	DTU, Delhi	On going
		Directions of Indian Solar Power Plants					

# M.Tech students supervised: 25

#### Professional Association:

- i. Senior Member IEEE
- 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 :

S. P. Yadav, Vinod Kumar Yadav, V. H. C. de Albuquerque and F. Al-Turjman, "Intelligent control in smart energy systems," vol. editor, Elsevier, 2024.

#### Book -Chapter Published:

- K.D. Bodha, Vinod Kumar Yadav, V. Mukherjee, "Combined Economic Emission Dispatch of a Hybrid Energy System Using Quantum-Inspired Tidal Firefly Algorithm," Smart Energy and Advancement in Power Technologies: Select Proceedings of ICSEAPT, vol. 1, pp.313-324, 2021, (Springer Nature)
- ✤ A. Srivastav, Vinod Kumar Yadav, M. Rizwan, "Comparative Analysis of Series-Parallel and Bridge Link Configurations Under Various Partial Shading Conditions," *International Conference on Signals, Machines, and Automation, 259-266, 2022,* (Springer Nature)
- K. Yadav, G Mehta, Vinod Kumar Yadav, "Power Quality Improvement with Harmonic Reduction Using PQ Theory-Based Shunt Active Power Filter," Smart Energy and Advancement in Power Technologies: Select Proceedings of ICSEAPT, vol.2,pp.1-16 2021, (Springer Nature)
- R Khanam, G Mehta, Vinod Kumar Yadav, "Design, Implementation and Performance Analysis of Shift Register Using Reversible Sayem Gate," *Communication and Intelligent Systems: Proceedings of ICCIS, pp. 557-571,* 2021, (Springer Nature)
- 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.

- 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 threephase 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**

- R. Singh, Vinod Kumar Yadav and M. Singh, "A Comprehensive Shade Resilient Approach for Enhanced PV Array Performance Under Irradiance Mismatch Conditions," *IEEE Journal of Photovoltaics, vol. 14, no. 3, pp. 549-556, May 2024, (IEEE, IF: 2.5)*
- Kushwaha, R. Singh, R. Yadav, Vinod Kumar Yadav, T. Yadav, S. Singh, "Reconfiguration of PV array for improved performance under different partial shading conditions using Roulette Barrel Shifter approach," *Energy Conversion and Management*, 322, 119151, 2024, (Elsevier, IF: 9.9)
- R. Singh, Vinod Kumar Yadav, M.Singh, "Performance enhancement of a novel reduced cross-tied PV arrangement under irradiance mismatch scenarios," *Applied Energy*, vol. 376, 124185, 2024, (Elsevier, IF: 10.1)
- S. Gupta, Vinod Kumar Yadav, M.Singh, A.K. Giri, "Decision-making in multi-objective DG planning for distribution system via Shannon's entropy. *Electrical Engineering*, 2024. https://doi.org/10.1007/s00202-024-02684-2 (Springer, IF: 1.6)
- R. Peesapati, Vinod Kumar Yadav, S. Ghosh, "A novel congestion management approach based on optimal DG allocation and OTS," *Ambient Energy, Taylor& Francis 2021*, (Review 2nd time).
- K. Baranwal, P. Prakash and Vinod Kumar Yadav, "Bypass Diode Performance Analysis & Improvement for Enhanced Electrothermal Response of PV Arrays," *IEEE Transactions on Industrial Electronics*, 2024, (Revised 2<sup>nd</sup> times)

- K. Baranwal, P. Prakash and Vinod Kumar Yadav, "Optimizing Bypass Diode Performance for Enhanced Reliability of PV Modules, "Solar Energy Materials and Solar Cells, 2024, (Revised)
- V. Jain, R. Singh, R. Yadav, Vinod Kumar Yadav, V. Kumar, and S. Garg, "Multi-Step Optimization for Reconfiguration of Solar PV Array for Optimal Shade Dispersion," *Electrical Engineering*, 2024. (Revision).
- Shubham Gupta, Vinod Kumar Yadav and M. Singh, "Aggregation of Distributed Energy Resources for Optimal Operation in Local Energy Communities with Grid Constraints," *IEEE Transactions on Industrial Informatics*. (Revision submitted on 11th May 2024)
- S. Gupta, Vinod Kumar Yadav, M. Singh, and K. Singh, "Optimal Scheduling of EV Charging Stations for Smart Distribution System Incorporating Demand Response and Multiple Uncertainties," *Electric Power Systems Research*, Communicated.

- R. Singh, Vinod Kumar Yadav, M. Singh, "Optimal Shade Dispersion Strategy for Enhanced PV Power Extraction Under PSCs," in *IEEE Transactions on Power Electronics, vol. 38 (11), pp. 14665-14674, 2023*, (IEEE, IF:6.6)
- R. Singh, Vinod Kumar Yadav, and M. Singh, "An Improved Hot Spot Mitigation Approach for Photovoltaic Modules Under Mismatch Conditions," *IEEE Transactions on Industrial Electronics, vol. 71,* no. 5, pp. 4840-4850, 2024 (IEEE, IF:7.5)
- K. Baranwal, P. Prakash and Vinod Kumar Yadav, "A Modified Bypass Circuit for Improved Reliability of PV Module Validated With Real-Time Data," *IEEE Transactions on Device and Materials Reliability, vol. 23, no. 2, pp. 187-197, 2023, (IEEE, IF:2.5)*
- S. Gupta, Vinod Kumar Yadav, M. Singh, "Measuring Influence of Indices in DN Planning," IEEE Systems Journal, vol. 17, no. 3, pp. 4149-4152, 2023, (IEEE, IF:4.0)
- Vinod Kumar Yadav, R. Yadav, R.Singh, I. Mishra, I. Ganvir, Manish, "Reconfiguration of PV array through recursive addition approach for optimal power extraction under PSC," *Energy Conversion and Management, vol.292, 117412, 2023, (Elsevier. IF:9.9)*
- Vinod Kumar Yadav, A.D.Behera, R. Singh, A. Maheshwari, S. Ghosh, A. Prakash, "A novel PV array reconfiguration technique based on circular array data structure," *Energy*, vol.283, 128505, 2023, (Elsevier. IF:9.0)
- S.Ghosh,S.K.Singh, Vinod Kumar Yadav, "Experimental investigation of hotspot phenomenon in PV arrays under mismatch conditions," *Solar Energy*, *vol.253*, *pp.219-230*, 2023, (Elsevier, IF:6.0)
- S.Ghosh, S.K. Singh, Vinod Kumar Yadav, "Attenuation of hotspot phenomenon in PV systems'" Energy Sources, Part A: Recovery, Utilization, and Environmental Effects," vol. 45(4), 11788–11802, 2023, (Taylor & Francis, IF:2.3)

- R.Peesapati, Vinod Kumar Yadav, K.Singh, S.Ghosh, "Optimal scheduling of BESS for congestion management considering reliability and OTS," *Sustainable Energy, Grids and Networks, vol* 38, 101227, 2024, (Elsevier, IF:4.8)
- N.Kushwaha, Vinod Kumar Yadav, R.Saha, "Effect of partial shading on photovoltaic systems performance and its mitigation techniques-a review," Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, vol45(4), 11155–11180,2023, (Taylor & Francis, IF:2.3)
- S. Singh, V.K.Tayal, H.P.Singh, Vinod Kumar Yadav, "Dynamic performance improvement of proton exchange membrane fuel cell system by robust loop shaping and artificial intelligence optimized fractional order PI controllers," *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects,* vol.45(3), pp.9308–9324, 2023, (Taylor & Francis, IF:2.3)
- M.K.Verma, V. Mukherjee, Vinod Kumar Yadav, S. Ghosh, "A novel methodology for the planning of charging infrastructure in the scenario of high EV penetration," Soft Comput vol. 27, pp. 5623–5640, 2023, (Springer, IF:3.1)
- K.D.Bodha, V. Mukherjee, Vinod Kumar Yadav, "A player unknown's battlegrounds ranking based optimization technique for power system optimization problem," Evolving Systems, vol.14, pp.295–317, 2023, (Springer, IF:2.7)

- Vinod Kumar Yadav, A. Yadav, R. Yadav, A. Mittal, N.H. Wazir, S. Gupta, R.K. Pachauri, S. Ghosh, "A novel reconfiguration technique for improvement of PV reliability," *Renewable Energy, vol.*182, pp. 508-520, 2022, (Elsevier, IF:9.0)
- R.K.Pachauri, S.B. Thanikanti, J. Bai, Vinod Kumar Yadav, B. Aljafari, S. Ghosh, H.H. Alhelou, "Ancient Chinese magic square-based PV array reconfiguration methodology to reduce power loss under partial shading conditions," *Energy Conversion and Management, vol.253*, 115148, 2022, (Elsevier, IF:9.9)
- S. Singh, V. K. Tayal, H. P. Singh, and Vinod Kumar Yadav, "Design of PSO-tuned FOPI & Smith predictor controller for nonlinear polymer electrolyte membrane fuel cell," *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 1–22, 2022.* https://doi.org/10.1080/15567036.2022.2025954 (Taylor & Francis, IF: 2.3)
- S. Singh, V. K. Tayal, H. P. Singh, and Vinod Kumar Yadav, "Optimal Design of Fractional Order PID Controllers for Solid Oxide Fuel Cell System Employing PSO Algorithm", Arabian Journal for Science and Engineering (AJSE), vol.21(1), pp. 7-16,2022, (IF:2.6)
- S.Singh, V.K. Tayal, H.P.Singh, Vinod Kumar Yadav, "Dynamic Performance Enhancement of PEM Fuel Cell Using PSO Optimized Fractional Order PI Controller," Suranaree Journal of Science & Technology, vol.29(6), 2022 (IF: 0.17)
- P.Singh, A.K.Mandpura, Vinod Kumar Yadav, "Power Forecasting in Photovoltaic System using Hybrid ANN and Wavelet Transform based Method," *Journal of Scientific & Industrial Research, vol.82(1) pp.63-*74, 2022. (IF: 0.7)

S. Gupta, Vinod Kumar Yadav, and M. Singh, "Optimal Allocation of Capacitors in Radial Distribution Networks Using Shannon's Entropy," IEEE Transactions on Power Delivery, vol. 37 (3), pp.

- 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, 101158, 2021, (Elsevier, IF: 3.8)
- 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: 3.1)
- Vinod Kumar Yadav, P. Goyal, A. Thukral, N. Varshney, and S. Ghosh, "Evaluation of relative performance of Indian states in PV resource utilization through MPI," *International Journal of Emerging Electric Power Systems, vol. 23 (3), pp. 423-434, 2022.* (De Gruyter, IF: 0.8)

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, (IEEE, IF: 2.5)
- M. K. Verma, V. Mukherjee, Vinod Kumar Yadav, and S. Ghosh, "Indian power distribution sector reforms: A critical review," *Energy Policy, vol.* 144, pp. 1-14, March, 2020. (Elsevier, IF: 9.3)

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, IF:4.5)*
- 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, IF: 4.2)*
- M.K. Verma, Vinod Kumar Yadav, V. Mukherjee, S. Ghosh "A multi-criteria approach for distribution network expansion through pooled MCDEA and Shannon Entropy,"

2021

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