

Details of International Journal Publications (42 Nos.)

Published Papers in SCI/SCIE, ESCI & SCOPUS Journals (37 Nos.)

- [1]. Naresh Boda, **Prashant Kumar Tiwari**, Asheesh Kumar Singh “An Efficient Allocation of Electric Vehicle Charging Stations with Optimized Bi-level Energy Trading for Enhanced System Economic Sustainability”, accepted for publication in *Electrical Engineering (Springer Nature)*, 2025. [SCI_Q2 Journal, Impact Factor: 1.9]
- [2]. Arindam Sanyal, Arup Kumar Goswami, **Prashant Kumar Tiwari**, Tirunagaru V Sarathkumar, Ahmad Aziz Al-Ahmadi, Mishari Metab Almalki, Aymen Flah, and Ramy N. R. Ghaly, “An Adaptive Renewable Energy Penetration Approach with Energy Storage Arbitrage For-Profit Maximization in Deregulated Power Market”, accepted for publication in *International Transactions on Electrical Energy Systems (Wiley)*, 2025. [SCI_Q2 Journal, Impact Factor: 1.9]
- [3]. Rajesh Panda, **Prashant Kumar Tiwari**, “Estimation of Risk Sensitivity and Level for GENCOs in Stochastic Wind Integrated Reserve Power Markets”, accepted for publication in *Smart Grids and Sustainable Energy (Springer Nature)*, 2025. [SCOPUS/ESCI_Q2 Journal, Impact Factor: 1.9]
- [4]. Naresh Boda, **Prashant Kumar Tiwari**, “An Efficient Coordinated Energy Trading Mechanism for Economic Sustainability of EVCSs and EVs in Competitive Electricity Market”, published in *Sustainable Energy, Grids and Networks (Elsevier)*, vol. 42, 101712, 2025. [SCI_Q1 Journal, Impact Factor: 4.8]
- [5]. Rajesh Panda, **Prashant Kumar Tiwari**, “Cross-Entropy based Risk Assessment and Forecasting of Secured Hybrid System using Bi-LSTM based AM Deep Learning Model”, published in *IEEE Transactions on Industry Applications*, vol. 61, Issue 3, pp. 4661 – 4674, 2025. [SCI_Q1 Journal, Impact Factor: 4.2]
- [6]. Nirban Chakraborty, Nalin B. Dev Choudhury, **Prashant Kumar Tiwari**, “Impacts of Reconfigurable Scheduling on the Economic Section of Power Distribution and Transmission in a Day Ahead Electricity Market”, published in *Electric Power Systems Research (Elsevier)*, vol. 238, 111160, 2025. [SCI_Q1 Journal, Impact Factor: 3.3]
- [7]. Mahima Srivastava, **Prashant Kumar Tiwari**, “A Profit Driven Optimal Scheduling of Virtual Power Plants for Peak Load Demand in Competitive Electricity Markets with Machine Learning based Forecasted Generations”, published in *Energy (Elsevier)*, vol. 310, 133077, 2024. [SCI_Q1 Journal, Impact Factor: 9.0]
- [8]. Furquan Nadeem, Arup Kumar Goswami, **Prashant Kumar Tiwari**, Mukesh Pushkarna, Din Bandhu, Mohannad Alhazmi, “Multistage Scheduling of VPP under Distributed Locational Marginal Prices and LCOE Evaluation”, published in *IEEE Access*, vol. 12, 2024. [SCI_Q1 Journal, Impact Factor: 3.4]
- [9]. Nirban Chakraborty, Nalin B. Dev Choudhury, **Prashant Kumar Tiwari**, “Profit Maximization of Retailers with Intermittent Renewable Sources and Energy Storage Systems in Deregulated Electricity Market with Modern Optimization Techniques: A Review”, published in *Renewable Energy Focus (Elsevier)*, vol. 47, 100492, 2023. [SCOPUS/ESCI_Q2 Journal, Impact Factor: 4.2]
- [10]. Arindam Sanyal, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Risk and Cost Benchmarking of Solar Energy Technology Based on Celestial phenomenon for a Power Market Integration,” published in *Sustainable Energy Technologies and Assessments (Elsevier)*, vol. 49, 2022. [SCI_Q1 Journal, Impact Factor: 7.1]
- [11]. Rajesh Panda, **Prashant Kumar Tiwari**, “An Economic Risk based Optimal Bidding Strategy for Various Market Players Considering Optimal Wind Placements in Day-Ahead and Real-Time Competitive Power Market”, published in *International Journal of Systems Assurance Engineering and Management (Springer)*, vol. 13, pp. 347-362, 2022. [SCOPUS/ESCI_Q2 Journal, Impact Factor: 1.6]

- [12]. Rajesh Panda, **Prashant Kumar Tiwari**, “Risk assessment by security-constrained unit commitment for hybrid wind-thermal by pair copula approach in reserve power market: a stochastic approach”, published in *IET Generation, Transmission & Distribution*, vol 14, issue 26, pp 6639-6649, January 2021. [SCI_Q1 Journal, Impact Factor: 2.5]
- [13]. Arindam Sanyal, **Prashant Kumar Tiwari**, Arup Kumar Goswami, “An efficient bidding strategy for selecting most economic horizon in restructured electricity market with hybrid generation and energy storage”, published in *Journal of Energy Storage (Elsevier)*, vol. 28, April 2020. [SCI_Q1 Journal, Impact Factor: 8.9]
- [14]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Transmission Congestion Management with Integration of Wind Farm: A Possible Solution Methodology for Deregulated Power Market”, published in *International Journal of Systems Assurance Engineering and Management (Springer)*, vol. 11, pp. 287-296, April 2020. [SCOPUS/ESCI_Q2 Journal, Impact Factor: 1.6]
- [15]. Rituparna Mitra, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “The Efficacy of Solar EV Duo: Way to Voltage Sag Mitigation”, published in *IET Generation, Transmission & Distribution*, vol. 14, issue .1, pp. 131-139, January 2020. [SCI_Q1 Journal, Impact Factor: 2.5]
- [16]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, “An Approach for Long Term Economic Operations of Competitive Power Market by Optimal Combined Scheduling of Wind Turbines and FACTS Controllers”, published in *Energy (Elsevier)*, vol. 181, pp. 709-723, August 2019. [SCI_Q1 Journal, Impact Factor: 9.0]
- [17]. Furquan Nadeem, Mohd A. Aftab, S.M.S. Hussain, Ikbali Ali, **Prashant Kumar Tiwari**, Arup Kumar Goswami, T. S. Ustun, “Virtual Power Plant Management in Smart Grids with XMPP based IEC 61850 communication”, published in *Energies*, 12, 2398; doi:10.3390/en12122398, June 2019. [SCI_Q1 Journal, Impact Factor: 3.0]
- [18]. **Prashant Kumar Tiwari**, Manash Kumar Mishra, Subhojit Dawn, “A two step approach for improvement of economic profit and emission with congestion management in hybrid competitive power market”, published in *International Journal of Electrical Power and Energy Systems (Elsevier)*, vol. 110, pp. 548-564, March 2019. [SCI_Q1 Journal, Impact Factor: 5.0]
- [19]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, Ankit Kumar Singh, Rajesh Panda, “Wind Power: Existing Status, Achievements and Government’s Initiative towards Renewable Power Dominating India”, published in *Energy Strategy Reviews*, vol. 23, pp. 178-199, January 2019. [SCI_Q1 Journal, Impact Factor: 7.9]
- [20]. Rituparna Mitra, Arup Kumar Goswami. **Prashant Kumar Tiwari**, "Optimal Selection of Voltage Sag Mitigating Devices for Micro Level Customer in Distribution System", published in *IET Renewable Power Generation*, vol. 13, issue 1, pp. 191-200, January 2019. [SCI_Q1 Journal, Impact Factor: 2.6]
- [21]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, and Rajesh Panda, ‘An Approach for System Risk Assessment and Mitigation by Optimal Operation of Wind Farm & FACTS Devices in Centralized Competitive Power Market’, published in *IEEE Transactions on Sustainable Energy*, vol. 10, issue 3, pp. 1054-1065, July 2018/2019. [SCI_Q1 Journal, Impact Factor: 8.6]
- [22]. Furquan Nadeem, S.M. Suhail Hussain, **Prashant Kumar Tiwari**, Arup Kumar Goswami, Taha Selim Ustun, "Comparative Review of Energy Storage Systems, Their Roles and Impacts on Future Power Systems," published in *IEEE Access*, vol. 7, pp. 4555-4585, December 2018. [SCI_Q1 Journal, Impact Factor: 3.4]
- [23]. Rajesh Panda, **Prashant Kumar Tiwari**, "Economic Risk based Bidding Strategy for Profit Maximization of Wind Integrated Day-Ahead and Real-Time Double Auctioned Competitive Power Markets," published in *IET Generation, Transmission & Distribution*, vol. 13, issue 2, pp. 209-218, October 2018. [SCI_Q1 Journal, Impact Factor: 2.5]

- [24]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, “An efficient approach for establishing the economic and operating reliability via optimal coordination of wind-PSH-solar-storage hybrid plant in highly uncertain double auction competitive power market”, published in *IET Renewable Power Generation*, vol. 12, Issue 10, pp. 1189-1202, August 2018. [SCI_Q1 Journal, Impact Factor: 2.6]
- [25]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Impact Assessment of Bi-directional Solar Electric Vehicle in Competitive Electricity Market under Congested Transmission System”, *Procedia Computer Science (Elsevier)*, vol. 143, pp. 653-662, 2018. [SCOPUS Journal, Cite Score: 4.5]
- [26]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, “An approach for efficient assessment of the performance of double auction competitive power market under variable imbalance cost due to high uncertain wind penetration”, published in *Renewable Energy (Elsevier)*, vol. 108, pp. 230-243, February 2017. [SCI_Q1 Journal, Impact Factor: 9.0]
- [27]. Rituparna Mitra, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Voltage Sag Assessment using Type-2 Fuzzy system considering uncertainties in Distribution system”, published in *IET Generation, Transmission & Distribution*, vol. 11, issue 6, pp. 1409-1419, January 2017. [SCI_Q1 Journal, Impact Factor: 2.5]
- [28]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Transmission Congestion Management using a Wind Integrated Compressed Air Energy Storage System”, published in *Engineering, Technology & Applied Science Research*, vol. 7, no. 4, pp. 1746-1752, July 2017. [SCOPUS/ESCI_Q2 Journal, Impact Factor: 1.5]
- [29]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kr. Goswami, Manas Kr. Mishra, “Recent developments of solar energy in India: Perspectives, strategies and future goals”, published in *Renewable & Sustainable Energy Reviews (Elsevier)*, vol. 62, pp. 215-235, April-2016. [SCI_Q1 Journal, Impact Factor: 16.3]
- [30]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, Subhasish Deb, “Rescheduling of real power for congestion management with integration of pumped storage hydro unit using firefly algorithm”, published in *International Journal of Electrical Power and Energy Systems (Elsevier)*, vol. 83, pp. 434-442, April 2016. [SCI_Q1 Journal, Impact Factor: 5.0]
- [31]. Subhojit Dawn, **Prashant Kumar Tiwari**, “Improvement of economic profit by optimal allocation of TCSC and UPFC with wind power generators in double auction competitive power market”, published in *International Journal of Electrical Power and Energy Systems (Elsevier)*, vol. 80, pp. 190-201, January 2016. [SCI_Q1 Journal, Impact Factor: 5.0]
- [32]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kr. Goswami, “A Joint Scheduling Optimization Strategy for Wind and Pumped Storage Systems Considering Imbalance Cost & Grid Frequency in Real-Time Competitive Power Market”, published in *International Journal of Renewable Energy Research*, vol. 6, no. 4, pp. 1248-1259, June 2016. [SCOPUS/ESCI_Q3 Journal, Impact Factor: 10.32]
- [33]. **Prashant Kumar Tiwari**, Yog Raj Sood, “An Efficient Approach for Optimal Allocation and Parameters Determination of TCSC with Investment Cost Recovery under Competitive Power Market”, published in *IEEE Transactions on Power Systems*, vol. 28, no. 3, pp. 2475-2484, August 2013. [SCI_Q1 Journal, Impact Factor: 6.5]
- [34]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “A comprehensive analysis strategies, policies and development of hydropower in India: Special emphasis on small hydropower”, published in *Renewable & Sustainable Energy Reviews (Elsevier)* vol. 18, pp. 460-470, February 2013. [SCI_Q1 Journal, Impact Factor: 16.3]
- [35]. **P.K. Tiwari**, Y.R. Sood, “Efficient and Optimal Approach for Location and Parameter Setting of Multiple Unified Power Flow Controllers for a Deregulated Power Sector”, published in *IET Generation*,

Transmission & Distribution, vol. 6, issue 10, pp. 958-967, October 2012. [SCI_Q1 Journal, Impact Factor: 2.5]

- [36]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Solar energy in India: Strategies, policies, perspectives and future potential”, published in *Renewable & Sustainable Energy Reviews (Elsevier)*, vol. 16, issue 1, pp. 933-941, January 2012. [SCI_Q1 Journal, Impact Factor: 16.3]
- [37]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Generator Rescheduling under Congested Power System with Wind Integrated Competitive Power Market”, published in *International Journal of Sensors & Transducers*, vol. 209, issue 2, pp. 50-55, February 2017, [SCOPUS Journal].

Published Papers in other than SCI/SCIE, ECI & SCOPUS Journals (05 Nos.)

- [1]. Arun Abhindranath, **Prashant Kumar Tiwari**, “Social Welfare Calculation and Comparison for Different Operating Strategy of Wind-pumped Storage Hybrid Plant in Competitive Power Market”, published in *Procedia Technology (Elsevier)*, vol. 21, pp. 68-75, January 2016. (Elsevier International Conference ‘Smart Grid Technologies’, August 6-8, 2015), DOI: 10.1016/j.protcy.2015.10.011
- [2]. **Prashant Kumar Tiwari**, Yog Raj Sood, “An Efficient Approach for Optimal Placement of TCSC in Double Auction Power Market”, published in *International Journal of Electronics and Electrical Engineering (IJEET)* (A Journal of World Academy of Science, Engineering and Technology (WASET)), vol. 6, pp. 321-326, June 2012, ISSN Print: 2010-3964, ISSN Online: 2010-3972.
- [3]. **Prashant Kumar Tiwari**, Yog Raj Sood, “Optimal Location of FACTS Devices in Power System by Artificial Intelligence based Optimization Techniques: A Review”, published in *International Journal of Innovations in Electrical Power Systems (IJEPS)*, vol. 2, no. 2, pp. 171-181, July-December 2010, ISSN: 0975-5306.
- [4]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood “Review of Artificial Intelligence Techniques Application to Dissolved Gas Analysis on Power Transformer” published in *International Journal of Computer and Electrical Engineering (IJCEE)*, vol. 3, no. 4, pp. 577-582, August 2011, ISSN: 1793-8198.
- [5]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Perspectives of Renewable Energy Sources in the Future Indian Competitive Electricity Markets”, published in *International Journal of “Trends in Electrical Engineering”* (STM Journals), vol. 2, issue 3, December 2012, ISSN: 1941-7012.

Book

Sl. No.	Book Title	Author(s)	Publisher	ISBN No./DOI No./ Page/ Year
1.	Optimal Placement of FACTS Devices with Wind Generator in Power System	Subhojit Dawn, Shreya Shree Das, Prashant Kumar Tiwari	LAP LAMBERT Academic Publishers	2020 [ISBN: 6202529652 ISBN-13: 978-6202529655]

Book Chapters (08 Nos.)

Sl. No.	Chapter Title	Author(s)	Book Title	Publisher	ISBN No./DOI No./ Page/ Year
1.	Optimal Placement of the Renewables in a Distribution System Using a Novel Performance Indices for Minimizing the Power Loss	Nirban Chakraborty, Nalin B Dev Choudhury, Prashant Kumar Tiwari	Innovations in Energy Management and Renewable Resources	Springer	2024 [Print ISBN: 978-981-97-6389-4 Online ISBN: 978-981-97-6390-0, doi: 10.1007/978-981-97-6390-0_23]
2.	Economic Benefit Analysis by Integration of Different Comparative Methods for FACTS Devices	Rituparna Mitra, Sadhan Gope, Arup Kumar Goswami, Prashant Kumar Tiwari	Springer Proceedings in Mathematics & Statistics	Springer	2023 [Print ISBN: 978-981-19-8193-7 Online ISBN: 978-981-19-8194-4, doi: 10.1007/978-981-19-8194-4_15]
3.	A Treatise on Distributed Generation Control	Arindam Sanyal, Prashant Kumar Tiwari , Rajesh Panda, Ravi Teja	Intelligent Techniques and Applications in Science and Technology	Springer	2019 [Print ISBN: 978-3-030-42362-9 Online ISBN: 978-3-030-42363-6, doi: 10.1007/978-3-030-42363-6_1]
4.	Economic Sustainability Maximization Considering Demand Side Bidding in a PV Integrated Restructured Electricity Market	Sadhan Gope, Subhojit Dawn, Galiveeti Hemakumar Reddy, Arup Kumar Goswami, Prashant Kumar Tiwari	Intelligent Techniques and Applications in Science and Technology	Springer	2019 [Print ISBN: 978-3-030-42362-9 Online ISBN: 978-3-030-42363-6, doi: 10.1007/978-3-030-42363-6_72]
5.	Profit Maximization by Joint Operation of Solar-Battery Storage System in a Renewable-Integrated Deregulated Power Market	Jayanta Bhusan Basu, Subhojit Dawn, Pradip Kumar Saha, Prashant Kumar Tiwari	Intelligent Techniques and Applications in Science and Technology	Springer	2019 [Print ISBN: 978-3-030-42362-9 Online ISBN: 978-3-030-42363-6, doi: 10.1007/978-3-030-42363-6_125]
6.	Transmission Congestion Relief with Integration of Photovoltaic Power using Lion Optimization Algorithm	Sadhan Gope, Subhojit Dawn, Rituparna Mitra, Arup Kumar Goswami, Prashant Kumar Tiwari	Soft Computing for Problem Solving	Springer	2018 [eBook ISBN: 978-981-13-1592-3, 2018, doi: 10.1007/978-981-13-1592-3-25]
7.	Congestion constraint corrective rescheduling in the competitive power market with the integration of a wind farm	Sadhan Gope, Arup Kumar Goswami, Prashant Kumar Tiwari	Computer, Communication and Electrical Technology	CRC Press Taylor & Francis Group	2017 [Print ISBN: 978-1-138-03157-9, eBook ISBN: 978-1-315-40061-7, 2017, doi: 10.1201/9781315400624-55, Pages 289–294]
8.	Optimal Demand Side Bidding Using Evolutionary Algorithm in Deregulated Environment	Subhojit Dawn, Sadhan Gope, Prashant Kumar Tiwari , Arup Kr. Goswami	Advances in Intelligent Systems and Computing	Springer	2015 [Print ISBN 978-981-10-0447-6, Online ISBN 978-981-10-0448-3, 2016, doi: 10.1007/978-981-10-0448-3-38]

Details of Publications in Magazine (11 Nos.)

- [1]. Subhojit Dawn, **Prashant Kumar Tiwari**, “Maximizing the Profit by Optimal Installation of TCSC with Wind Power Generator in Deregulated Electricity Market”, **published** in *Smart Energy Magazine*, vol. 1, issue 3, pp. 62-64, June-July 2014, ISSN: 2348-5027.
- [2]. **Prashant Kumar Tiwari**, Yog Raj Sood, “Flexible Alternating Current Transmission Systems (FACTS): An Indian Scenario”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 50, no. 9, September 2010.
- [3]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “Power Quality issues in Deregulated Environment of Power Sector”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 3, March 2011.
- [4]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “Novel Concept of Quantization of Congestion in Deregulated Power Sector”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 5, May 2011.
- [5]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood “Impact of Renewable Energy in Competitive Electricity Market: Future Aspects” **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 10, pp. 88-91, October 2011.
- [6]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “Current Status and Trends of Indian Power Sector”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 11, pp. 50-57, November 2011.
- [7]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Current Power Scenario of Punjab: A Special Emphasis of Renewable Energy Sources”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 11, pp. 274-278, November 2011.
- [8]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Renewable Energy Status and Future Plans in Indian Restructured Power Sector”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 12, pp. 88-93, December 2011.
- [9]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “An Efficient Approach for Optimal Location of FACTS Devices in Power Transmission Systems”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 52, no. 2, pp. 58-63, February 2012.
- [10]. Naveen Kr. Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Power Transformer Insulating Oil Aging Diagnosis by using Dissolved Gas Analysis”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 52, no. 3, pp. 60-66, March 2012.
- [11]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Power Market for Renewable Energy Efficiency in India”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 52, no. 12, December 2012.

Details of International Conference Publications (49 Nos.)

International Conferences [outside India] (09 Nos.)

- [1]. Arindam Sanyal, C. Behera, Arup Kumar Goswami and **Prashant Kumar Tiwari**, “Impact of Voltage Sag on Market Operation in Electrical Power System”, **IEEE Industry Applications Society Annual Meeting (IAS)**, Vancouver, BC, Canada, pp. 1-6, 2021, **E-ISBN: 978-1-7281-6401-4, E-ISSN: 2576-702X**.
- [2]. Rajesh Panda, **Prashant Kumar Tiwari**, "Security Constrained Unit Commitment Economic Dispatch Based Optimal Bidding Strategy in Risky Environment", accepted for publication in **IEEE PES GTD Grand International Conference** and Exposition Asia 2019, from 19 - 23 March 2019 at Bangkok, Thailand
- [3]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Impact Assessment of Bi-directional Solar Electric Vehicle in Competitive Electricity Market under Congested Transmission System”, published in **Procedia Computer Science**, vol. 143, pp. 653-662, 2018, **E-ISSN: 1877-0509. SCOPUS Indexed**
- [4]. Sadhan Gope, Arup Kumar Goswami and **Prashant Kumar Tiwari**, “Congestion Mitigation Considering Solar Electric Vehicle: A Possible Solution for Today’s Electricity Market”, published in **International Conference** on Sustainable Energy and Environment Sensing (SEES 2018), University of Cambridge, U.K., 18-19 June, 2018
- [5]. Subhojit Dawn, **Prashant Kumar Tiwari**, Sadhan Gope, Arup Kumar Goswami and Prakash Kumar, "An Active Power Spot Price based Approach for Congestion Management by Optimal Allocation of TCSC in Competitive Power Market", published in **IEEE TENCON-2016, Singapore. DOI: 10.1109/TENCON.2016.7848261, Electronic ISSN: 2159-3450, Electronic ISBN: 978-1-5090-2597-8.**
- [6]. Sadhan Gope, Subhojit Dawn, Arup Kumar Goswami and **Prashant Kumar Tiwari**, "Profit Maximization with Integration of Wind Farm in Contingency Constraint Deregulated Power Market using Moth Flame Optimization Algorithm", published in **IEEE TENCON-2016, Singapore. DOI: 10.1109/TENCON.2016.7848257, Electronic ISSN: 2159-3450, Electronic ISBN: 978-1-5090-2597-8.**
- [7]. Sadhan Gope, Subhojit Dawn, Arup Kumar Goswami and **Prashant Kumar Tiwari**, "Moth Flame Optimization based Optimal Bidding Strategy under Transmission Congestion in Deregulated Power Market", published in **IEEE TENCON-2016, Singapore. DOI: 10.1109/TENCON.2016.7848076, Electronic ISSN: 2159-3450, Electronic ISBN: 978-1-5090-2597-8.**
- [8]. **Prashant Kumar Tiwari**, Yog Raj Sood, “Optimal Location of FACTS Devices for Enhancement in the Performance of Deregulated Power Sector: A Survey”, **published in IEEE Power & Energy Society (PES) General Meeting-2011, Detroit, Michigan, USA, DOI: 978-1-4577-1002-5/11, pp. 1-7, July 24-28, 2011. ISSN: 1944-9925, E-ISBN: 978-1-4577-1001-8, Print ISBN: 978-1-4577-1000-1.**
- [9]. **Prashant Kumar Tiwari**, Yog Raj Sood, “An Approach for Optimal Placement Rating and Investment Cost Recovery of a TCSC in Double Auction Power Market”, **published in Proceedings of the 2014 International Conference** on Power Systems, Energy, Environment, **Switzerland**. (ISBN: 978-1-61804-221-7), March 2014.

International Conferences [within India] (40 Nos.)

- [1]. Mahima, Srivastava, **Prashant Kumar Tiwari**, “A Profit Driven Approach for Optimizing Virtual Power Plant Operations in Competitive Electricity Markets”, **2024 IEEE Students Conference on Engineering and Systems (SCES-2024)**, Organized by EED, MNNIT Allahabad during 21st – 23rd June-2024.
- [2]. Naresh Boda, **Prashant Kumar Tiwari**, “Efficient Energy Management for Grid-Connected PV and EV Charging Stations with HES System Using Fuzzy Logic-based MPPT Control”, **2024 IEEE Students Conference on Engineering and Systems (SCES-2024)**, Organized by EED, MNNIT Allahabad during 21st – 23rd June-2024.
- [3]. Shantanu Dwivedi, **Prashant Kumar Tiwari**, Asheesh Kumar Singh, Naresh Boda, “Efficient Energy Management for Grid-Connected PV and EV Charging Stations with HES System Using Fuzzy Logic-based MPPT Control”, **2024 IEEE Students Conference on Engineering and Systems (SCES-2024)**, Organized by EED, MNNIT Allahabad during 21st – 23rd June-2024.
- [4]. Naresh Boda, **Prashant Kumar Tiwari**, Rajesh Panda "A Systematic Approach for Risk Assessment and Mitigation of Wind Integrated Electricity Markets", **Springer's International Conference on Renewable Energy, Green Computing & Sustainable Development(ICREGCSD-2023)** held from 22nd - 23rd December 2023 at CVR College of Engineering, Hyderabad, Telangana, India. . [Accepted & Presented]
- [5]. Rajesh Panda, **Prashant Kumar Tiwari**, “Forecasting of Market Power using LSTM in day-ahead market”, **2023 IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE 2023)** held from 17th – 20th December 2023 at Thiruvananthapuram, India. [Accepted & Presented]
- [6]. Rajesh Panda, **Prashant Kumar Tiwari**, “A Hybrid Wind-Thermal Bidding Model in Day-ahead and Real-time market considering Regulating price in a Competitive power market”, **3rd IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2023)** held from 10th – 13th December 2023 at KIIT University, Bhubaneswar, India. [Accepted & Presented]
- [7]. Parikhshit Kumar Kanth, **Prashant Kumar Tiwari**, Naresh Boda, “A Control Scheme for Grid Connected Solar Powered EV Charging Station With Hybrid Energy Storage System”, **IEEE SILCON-2023**, held from 3rd – 5th November 2023 at NIT Silchar, India. [Accepted & Presented]
- [8]. Piyush Singh, **Prashant Kumar Tiwari**, “A Flexible Day-Ahead Electricity Market Strategy Employing Deep Learning”, **7th IEEE Students' Conference on Engineering & Systems (SCES-2022)** organized by Electrical Engg. Department, MNNIT Allahabad, Prayagraj, India during 1st – 3rd July 2022, **E- ISBN: 978-1-6654-8072-7**.
- [9]. Shubham Kumar, **Prashant Kumar Tiwari**, “Impacts of Renewable Energy Based Power Plants on LMP in Deregulated Electricity Markets: A Review”, **7th IEEE Students' Conference on Engineering & Systems (SCES-2022)** organized by Electrical Engg. Department, MNNIT Allahabad, Prayagraj, India during 1st – 3rd July 2022, **E-ISBN: 978-1-6654-8072-7**.
- [10]. Arindam Sanyal, Arup Kumar Goswami and **Prashant Kumar Tiwari**, “A Neural Network Approach For Evaluating Levelized Cost Of Electricity For Generating Electricity Across Various Generation Technologies”, **2022 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE)**, Trivendrum, India, during 2nd – 5th January 2022, **E-ISBN:978-1-6654-4837-6**.
- [11]. Furquan Nadeem, Arup Kumar Goswami and **Prashant Kumar Tiwari**, “Security Constrained two Stage Scheduling of Virtual Power Plant under Distributed Locational Marginal Prices”, **2022 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE)**, Trivendrum, India, during 2nd – 5th January 2022, **E-ISBN:978-1-6654-4837-6**.

- [12]. Akanksha Kedia, Arindam Sanyal, Abinab Gogoi, Ambar Kumar, Arup Kumar Goswami, **Prashant Kumar Tiwari**, Nalin Behari Deb Choudhury, "Wind Power Uncertainties Forecasting based on Long Short Term Memory Model for Short-Term Power Market", *IEEE First International Conference on Smart Technologies for Power, Energy and Control (STPEC)*, pp. 1-6, doi: 10.1109/STPEC49749.2020.9297752, September 2020.
- [13]. Arindam Sanyal, Arup Kumar Goswami, **Prashant Kumar Tiwari**, Tirunagaru V Sarath Kumar, "A Treatise on Impact of Renewables in the Power Market", *6th IEEE Students Conference on Engineering & Systems (SCES-2020)*, pp. 1-5, doi: 10.1109/SCES50439.2020.9236689, July 2020.
- [14]. Rajesh Panda, **Prashant Kumar Tiwari**, Bijaya Kumar Mohapatra, "Risk Analysis based on Gaussian Mixture Model for GENCOs in Short Term Market", *IEEE International Conference on Renewable Energy Integration into Smart Grids: A Multidisciplinary Approach to Technology Modelling and Simulation (ICREISG)*, pp. 249-253, February 2020.
- [15]. Sadhan Gope, Subhojit Dawn, Galiveeti Hemakumar Reddy, Arup Kumar Goswami, **Prashant Kumar Tiwari**, "Economic Sustainability Maximization Considering Demand Side Bidding in a PV Integrated Restructured Electricity Market", *Springer's International Conference on Innovation in Modern Science and Technology*, pp. 617-627, September 2019 (Part of the Learning and Analytics in Intelligent Systems book series (LAIS, volume 12)).
- [16]. Jayanta Bhusan Basu, Subhojit Dawn, Pradip Kumar Saha, **Prashant Kumar Tiwari**, "Profit Maximization by Joint Operation of Solar-Battery Storage System in a Renewable-Integrated Deregulated Power Market", *Springer's International Conference on Innovation in Modern Science and Technology*, pp. 1087-1096, September 2019 (Part of the Learning and Analytics in Intelligent Systems book series (LAIS, volume 12)).
- [17]. Arindam Sanyal, **Prashant Kumar Tiwari**, Rajesh Panda, Ravi Teja, "A Treatise on Distributed Generation Control", *Springer's International Conference on Innovation in Modern Science and Technology*, pp. 1-8, September 2019 (Part of the Learning and Analytics in Intelligent Systems book series (LAIS, volume 12)).
- [18]. Rajesh Panda, Prashant Kumar Tiwari, "Risk based Optimal Bidding Strategy for Suppliers and Buyers in a Day-Ahead Electricity Market", *IEEE International Conference on Sustainable Energy Technologies and Systems (ICSETS)*, pp. 45-50, March-2019 at Bhubaneswar.
- [19]. Furquan Nadeem, SM Suhail Hussain, **Prashant Kumar Tiwari**, Arup Kumar Goswami, Taha Selim Ustun, "Review of smart and innovative energy storage systems", *IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN)*, pp. 1-6, March 2019.
- [20]. A. K. Singh, R. Panda, **P.K. Tiwari**, "An Optimal Bidding Strategy for Social Welfare Maximization of Microgrid," *International Conference in Recent Trends on Electronics and Computer Science (ICRTECS-2019)*, 18th -19th March 2019, NIT Silchar, India.
- [21]. Rajesh Panda, **Prashant Kumar Tiwari**, "Bidding Strategy for GENCOs and DISCOs in a Risk-based Day-Ahead Market", 1st IEEE International Conference on Sustainable Energy Technologies and System to be held in February 2019 at KIIT, Bhubaneswar, Odisha
- [22]. Arindam Sanyal, Rajesh Panda, **Prashant Kumar Tiwari**, "Frequency Regulation in Deregulated Power Markets: A Review", *International Conference on Computational Intelligence and Internet of Things (ICCIoT 2018)* held at NIT Agartala, India during 14-15 December 2018.
- [23]. Rajesh Panda, **Prashant Kumar Tiwari**, Subhojit Dawn, "A wind integrated bidding model in day-ahead and real-time market considering regulating price in a deregulated power market", *SCOPUS Indexed International Conference on New Technological Opportunities in Networking and Sciences (NEWTONS-18)*, 8-10 June 2018, SIT Pithoragarh, India

- [24]. Rituparna Mitra, Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Optimal Selection of Voltage Sag Mitigating Devices Using Whale Optimization Algorithm for Small and Medium Sized Customers in Distribution System”, *IEEE 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE)*, June 2018 at Shillong, India.
- [25]. Rituparna Mitra, Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Wind Power Generation, an Ingredient for Charging Battery Electric Vehicle (BEV) and a Useful Menace of Voltage Sag in Distribution System”, *IEEE 3rd International Conference for Convergence in Technology (I2CT)*, April 2018 at Pune, India.
- [26]. Subhojit Dawn, Sadhan Gope, Prashant Kumar Tiwari, Arup Kr. Goswami, “Optimal Demand Side Bidding Using Evolutionary Algorithm in Deregulated Environment”, Springer—5th International Conference on Soft Computing for Problem Solving, IIT Roorkee, December-2015. **(Online available)---Springer.**
- [27]. S Gope, AK Goswami, **PK Tiwari**, S Deb, “Generator rescheduling for congestion management using Firefly Algorithm”, *IEEE International Conference on Energy Systems and Applications*, Pune, India, pp. 40-44, October 2015, **ISBN: 978-1-4673-6817-9/15**
- [28]. Subhojit Dawn, **P.K. Tiwari**, “Maximization of Social Welfare by Optimal Allocation of UPFC with Wind Power Generation in Deregulated Electricity Market”, **published in 2014 IEEE International Conference on Advanced Communication Control & Computing Technologies (ICACCCT)**, Ramanathapuram, Tamilnadu, India, pp. 314-318, 2014, **ISBN: 978-1-4799-3914-5/14**
- [29]. Subhojit Dawn, **P.K. Tiwari**, “Improvement of Social Welfare and Profit by Optimal Allocation of TCSC with Wind Power Generator in Double Auction Competitive Power Market”, **published in 2014 Fourth IEEE International Conference on Advances in Computing and Communications**, Cochin, India, pp. 362-365, August 2014, **ISBN: 978-1-4799-4363-0/14, DOI: 10.1109/ICACC.2014.95.**
- [30]. **Prashant Kumar Tiwari**, Yog Raj Sood, “Optimal Location of FACTS Devices in Power System using Genetic Algorithm”, **published in IEEE World Congress on Nature & Biologically Inspired Computing (NaBIC 2009)**, pp.1034-1040, December 2009. (Available online at *IEEE Xplore Digital Library*). **Print ISBN: 978-1-4244-5053-4.**
- [31]. N.K. Sharma, **P.K. Tiwari**, Y.R. Sood, “Promotion of Renewable Energy in Indian Power Sector Moving Towards Deregulation”, **published in 2012 International IEEE Student’s Conference on Electrical Electronics and Computer Sciences (SCEECS-2012)**, organized by Department of Electrical Engineering, MANIT Bhopal (M.P.), (Available online at *IEEE Xplore Digital Library*). **Print ISBN: 978-1-4673-1516-6.**
- [32]. N.K. Sharma, **P.K. Tiwari**, Y.R. Sood, “Current status, policies and future perspectives of Indian Power Sector Moving Towards Deregulation”, **published in 2012 International IEEE Student’s Conference on Electrical Electronics and Computer Sciences (SCEECS-2012)**, organized by Department of Electrical Engineering, MANIT Bhopal (M.P.), (Available online at *IEEE Xplore Digital Library*). **Print ISBN: 978-1-4673-1516-6.**
- [33]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Environmental friendly solar energy in restructured Indian Power Sector”, **published in 2nd IET International Conference on Sustainable Energy and Intelligent System (SEISCON 2011)**, Chennai, pp.104-109, July 20-22, 2011. **ISBN: 978-9-38043-000-3.** (Available online at *IEEE Xplore Digital Library*).
- [34]. Prateek Singhal, **Prashant Kumar Tiwari**, Yog Raj Sood, “Deregulation & Restructuring of Russian Electricity Market”, **published in IEEE International Conference on Advance in Computing & Communication (ICACC-2011)**, organized by Computer Centre & Department of Computer Science & Engg., N.I.T Hamirpur (HP)-India, pp. 365-371, April 8-10, 2011. **ISBN: 978-81-920874-0-5.**

- [35]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Artificial Intelligence Techniques Application to Dissolved Gas Analysis of Power Transformer”, **published in *IEEE International Conference on Advance in Computing & Communication (ICACC-2011)***, organized by Computer Centre & Department of Computer Science & Engg., N.I.T Hamirpur (HP), pp. 449-455, April 8-10, 2011, **ISBN: 978-81-920874-0-5**.
- [36]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Restructuring and Deregulation of Indian Power Sector: current status, policies and future perspectives”, **published in *International Conference on Deregulated Environment and Energy Markets (DEEM)***, organized by Chitkara University, Rajpura (Punjab), July 22-23, 2011, **ISBN: 978-81-920913-7-2**.
- [37]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “Genetic Algorithm Based Approach for Optimal Location of FACTS Devices in Power System”, **published in *International Conference on Electrical Power and Energy Systems (ICEPES-2010)***, MANIT Bhopal (M.P.), vol. 2, pp. 97-104, August 26-28, 2010.
- [38]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Condition Monitoring and Diagnosis of Power Transformers using Different Techniques: A Technical Review”, **published in *International Conference on Electrical Power and Energy Systems (ICEPES-2010)***, MANIT Bhopal (M.P.), vol. 1, pp. 590-596, August 26-28, 2010.
- [39]. N.K. Sharma, **P.K. Tiwari**, Y.R. Sood, “Renewable Energy Status in Indian Restructured Power Sector: Future Aspects”, **published in *International Conference on Renewable Energy***, organized by Eternal University, Baru Shib, Sirmour (H.P.), May 5-6, 2012.
- [40]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Renewable Energy: Indian Competitive Electricity Marketplace and Future Aspects”, **published in *IEEE International conference on Power Electronics (IICPE 2012)***, Delhi Technical University (DTU), Delhi, December 6-8, 2012, pp.1-6.

Details of National Conference Publications (09 Nos.)

- [1]. Rajesh Panda, **Prashant Kumar Tiwari**, “Risk-Based Double Auction Mechanism in Real Time Power Market”, ***National Seminar on Renewable Energy Technology: Issues and Prospects (RETIP-2017)***, Sep. 2017. (***Proceedings published by American Institute of Physics***)
- [2]. **Prashant Kumar Tiwari**, Yog Raj Sood, “A New Method for Minimization of Transmission Losses using Optimization”, **published in *National Conference on Recent Trends of Electrical & Electronics Engineering (RTEEE-2010)-Kaithal (Haryana)***, May 14-15, 2010.
- [3]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Renewable Energy Status in India”, **published in *National Conference on Recent Trends of Electrical & Electronics Engineering (RTEEE-2010)-Kaithal (Haryana)***, May 14-15, 2010.
- [4]. Dr. Yog Raj Sood, Dr. R. K. Jarial, **Prashant Kumar Tiwari**, “Mathematical Modeling of TCSC, STATCOM and UPFC based upon Newton Raphson’s Power Flow”, **published in *National Conference on Recents Advances in Electrical Engineering (RAEE-2008)***, N.I.T. Hamirpur(H.P.), December 26-27, 2008.
- [5]. **Prashant Kumar Tiwari**, “FACTS Technology, an Effective Tool of Energy Management: An Indian Scenario”, **published in *National Conference on Trends in Renewable Energy Sources, Application and Climate Change (TRESAC-2010)***, organized by Centre for Nanoscience & Nanotechnology, Sathyabama University, Chennai, India, July 23-25, 2010.
- [6]. Digambar Singh, Naveen Kr. Sharma, **Prashant Kr. Tiwari**, Yog Raj Sood, “Role of Solar Energy in Indian Electricity Market: Future Perspectives”, **published in *National Conference on Sustainable Development Energy Sector***, organized by University of Petroleum & Energy Studies, Dehradun, April 8-9, 2011.

- [7]. Digambar Singh, Naveen Kr. Sharma, **Prashant Kr. Tiwari**, Yog Raj Sood, “An Analysis of Renewable Energy Supply and Assessment Criteria for Grid Connected Large Buildings”, **published** in ***National Conference on Advances & Research in Electrical System Technologies (AREST-11)***, ARYA Institute of Engineering & Technology, Jaipur, April 23-24, 2011.
- [8]. Digambar Singh, Naveen Kr. Sharma, **Prashant Kr. Tiwari**, Yog Raj Sood, “The Development & Generation of Electricity from Natural Source of Light”, **published** in ***National Conference on Latest, Advancement in Science, Engineering Research 2011 (LASER'11)***, May 26-27, 2011, Baba Farid College of Engineering & Technology, Bathinda, Punjab.
- [9]. **P.K. Tiwari**, Y.R. Sood, R.K. Jarial, R.A. Gupta, “Optimal Location of FACTS Devices in Deregulated Power Sector: A Survey”, All India (***National***) Seminar on Power Electronics Application to Power Systems (PEAPS-2011), November 19-20, 2011 at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur (Rajasthan).
