

RESEARCH PUBLICATIONS:

- 1) Jawaharlal Bhukya, Ashiwani Yadav and Poorva Sharma "Impact of Wind Farm and Electric Vehicle Battery Charging Station on Transient Stability," IEEE 11th International Conference on Computer Communication and Informatics (ICCCI-2021), Coimbatore, India, DOI: 10.1109/ICCCI50826.2021.9402282, Date of Conference: 27-29 January 2021.
- 2) Jawaharlal Bhukya, Ashiwani Yadav and Poorva Sharma "Small Signal Stability Analysis with Integration of DFIG based Wind Farm and EV Charging Station," IEEE 1st International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT - 2021), Bhilai, Chhattisgarh, India, DOI:10.1109/ICAECT49130.2021.9392438, Date of Conference: 19-20, February 2021.
- 3) Praveen Mishra, Dewashri Pansari, Anamika Yadav "Classification of faults in a TCSC compensated transmission line using data mining algorithm" IEEE 1st International Conference on Smart Technologies for Power, Energy and Control (STPEC- 2020), NIT Nagpur, Nagpur, India, (Accepted and presented), Date of Conference: 25-26 September 2020.
- 4) Praveen Mishra, Dewashri Pansari, Anamika Yadav, "Combined Fault Classification and Location Scheme for TCSC-compensated Transmission Lines using Machine Learning Techniques", 21st National Power Systems Conference (NPSC 2020)
- 5) Ashiwani Yadav, Jawaharlal Bhukya and Nitai Pal "Design and Development of PV-Wind based Hybrid Renewable Energy System" IEEE 1st International Conference on Electronics and Sustainable Communication Systems (ICESC-2020), Coimbatore, India, DOI: 10.1109/ICESC48915.2020.9155851, Date of Conference: 2-4 July 2020.
- 6) Jawaharlal Bhukya and Poorva Sharma "Impact of Electric Vehicle Charging Station on System Stability with Integration of Wind Farm" IEEE 1st International Conference on Smart Technologies for Power, Energy and Control (STPEC- 2020), NIT Nagpur, Nagpur, India, Date of Conference: 25-26 September 2020.
- 7) Jawaharlal Bhukya, Ashiwani Yadav and Poorva Sharma " Impact of Electric Vehicle Load and Wind Farm on Small Signal Stability," IEEE 5th International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2020), Bangalore, India, Date of Conference: 19-20 November 2020.
- 8) Jawaharlal Bhukya "Design and Development of Vehicle to grid of Battery Storage with Integration of Wind Farm" IEEE 2nd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA-2020), Bangalore, India, Date of Conference: 5-7 March 2020, DOI: 10.1109/ICIMIA48430.2020.9074841.
- 9) Jawaharlal Bhukya and Vasundhara Mahajan, "Optimization of controllers parameters for damping local area oscillation to enhance the stability of an Advances in Intelligent Systems and Computing interconnected system with wind farm" International Journal of Electrical Power & Energy Systems 119, 105877, JULY 2020. [SCIE](#))
- 10) Praveen Mishra, Anamika Yadav, M. Pazoki "Resilience-oriented protection scheme for TCSC-compensated line" International Journal of Electrical Power & Energy Systems

- 11) Ashiwani Yadav, Nitai Pal, Jagannath Patra, Monika Yadav “Strategic Planning and Challenges to the Deployment of Renewable Energy Technologies in the World Scenario: It’s Impact on Global Sustainable Development”, accepted for publication in *Environment Development and sustainability*, ISSN: 1895-6912, (*SCIE*) Publication date 01-01-2020.
- 12) Faizan A. Khan, Nitai Pal, Syed.H. Saeed, **Ashiwani Yadav** “Techno-Economic and feasibility assessment of standalone solar Photovoltaic/Wind hybrid energy system for various storage techniques and different rural locations in India”, *Energy Conversion and Management*, Volume 270, Issue 1, September 2022, (*SCIE*).
- 13) Faizan A. Khan, Nitai Pal, Syed.H. Saeed, **Ashiwani Yadav** “Modelling and Techno-economic analysis of standalone SPV/Wind hybrid renewable energy system with lead-acid battery technology for rural applications”, accepted for publication in *Journal of Energy Storage*, Sep- 2022, ISSN: 2352-152X, (*SCIE Q1*).
- 14) Praveen Mishra, Anamika Yadav, M. Pazoki “A Single Ended Fuzzy Based Directional Relaying Scheme for Transmission Line Compensated by Fixed Series Capacitor” *Advances in Intelligent Systems and Computing* (Springer) volume 941 pp 749-759 14 April 2019 (*SCIE*)
- 15) Praveen Mishra, Anamika Yadav, M. Pazoki “FDOST-based fault classification scheme for fixed series compensated transmission system” Jan 2019
- 16) Praveen Mishra, Anamika Yadav, "Combined DFT and fuzzy based faulty phase selection and classification in a series compensated transmission line” *Modelling and Simulink in Engineering* Feb 2019
- 17) Saurabh Gupta, S.C. Choube, Sushma Gupta, “Opal-RT based Analysis and Implementation of DFIG with Standalone Wind Energy Conversion System,” *International Journal of Engineering & Technology (IJET-UAE)*, Vol.7,no.4.6. pp.339-346,Oct-2018 (Scopus Index Journal)
- 18) Jawaharlal Bhukya and Vasundhara Mahajan, “Fuzzy Logic based Control Scheme for Doubly Fed Induction Generator based Wind Turbine”, *International Journal of Emerging Electric Power Systems* (De Gruyter publishing), Vol.10. no.06,20180126, ISSN:1553-779X, DOI: 10.1515/IJEEPS-2018-0126 (Emerging Sources Citation Index Journal). (*SCIE*)
- 19) Jawaharlal Bhukya and Vasundhara Mahajan, “Optimization of Damping controller for PSS and SSSC to improve stability of interconnected system with DFIG based Wind farm”, *International Journal of Emerging Electric Power Systems* (ScienceDirect),vol.108,no.01, pp.314-335 , DOI: 10.1016/J.IJEPES.2019.01.017.2018.5555 (Science Citation Indexed Journal). (*SCIE*)
- 20) Jawaharlal Bhukya and Vasundhara Mahajan, “Mathematical Modelling and Stability Analysis of Power System Stabilizer for Damping Low-Frequency Oscillations of Wind Power System”, *Institution of Engineering and Technology (IET) Renewable Power Generation*, vol.13,no.01, pp.103-115, ISSN: 1752-1424 , DOI: 10.1049/iet-rpg.2018.5555 (Science Citation Indexed Journal). (*SCIE*)

- 21) Parimal, Sanjoy Mandal, "Design of cyclic code to BCD code conversion and its performance analysis in Z-domain using optical microring resonator," doi: 10.1117/1.OE.57.11.116104. *Optical Engineering* 57(11), 116104 (November 2018) ([SCIE](#))
- 22) A. K. Ranjan, Ashiwani Yadav and N. Pal, "Application of cascaded H-bridge multi level inverter for PV based induction motor," *2019 3rd International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE)*, 2019, pp. 270-276, doi: 10.1109/RDCAPE47089.2019.8979109.
- 23) P. K. Mishra, Ashiwani Yadav and D. Pansari, "Ensemble Classifier based Fault Classification for a TCSC-compensated Transmission Line," *2020 IEEE 7th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, 2020, pp. 1-5, doi: 10.1109/UPCON50219.2020.9376537. ([SCIE](#))
- 24) Ashiwani Yadav, J. Bhukya and N. Pal, "Design and Development of PV-Wind based Hybrid Renewable Energy System," *2020 International Conference on Electronics and Sustainable Communication Systems (ICESC)*, 2020, pp. 1045-1051, doi: 10.1109/ICESC48915.2020.9155851.
- 25) Jawaharlal Bhukya and Vasundhara Mahajan, Parameter tuning of PSS and STATCOM controllers using genetic algorithm for improvement of small-signal and transient stability of power systems with wind power. *Int Trans Electr Energ Syst.* 2021; 31:e12912. <https://doi.org/10.1002/2050-7038.12912> ([SCIE](#))
- 26) Arsh Khan, Arpan Dwivedi, Development of FACTS Device with Filter Bank for Power Quality Improvement using Fuzzy Logic Controller. *Int. J. of P. & Life Sci. (Special Issue Engg. Tech.)*. 9 (Spec. Issue), 231-237 ISSN: 0976-7126
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- 31) G.P. Chhalhotra, R.S. Mahajan , R.S. Parihar et. al. "Reliability investigation of interconnected power plants using fuzzy relation matrix" *AMSE, Modelling & Simulation* , France, September 2003.
- 32) G.P. Chhalhotra, R.S. Mahajan , R.S. Parihar et. al," Development of Electrical Power Systems Reliability based on System Parameters and Fuzzy Control" *Jamia Electrical Engineering Conference (JEFC)*, New Delhi, July-2003.

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