

Dr. Bhola Jha

Title	Dr.	First Name	Bhola	Last Name	Jha	
Designation	Associate Professor					
Dept. Name	Electrical Engineering					
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Web Page (if any)						
Subjects Taught	Electrical Engineering Subjects					
Areas of Interest/Specialization	Machine Modeling, Power System, Renewable Energy, Smart Grid					
Experience (in years)	Total	24				
	Industry					
	Teaching	24				
	Research					
Educational Qualifications	UG	B.Sc Engg. (Electrical)				
	PG	M.Tech (High Voltage Engg.)				
	Doctorate	Awarded (Electrical Engg.) Modeling and Analysis of Grid Connected DFIG				
	Any other					
Research Publications in Journals	24					
Papers Published in Conference Proceedings	23					

Books Authored/Book Chapters/Edited	04		
No. of Conferences	National	Attended	Organized
		04	01
	International	07	01
Research Guidance	Awarded	PG	Doctorate
		08	03
	Undergoing		01
Research Projects & Consultancy	Completed	02 (13.09 Lakh and 2.975 Lakh) Consultancy: Rs.9914456/- (tender values)	
	Undergoing		
Awards & Distinctions			
Administrative Assignments Handled	TEQIP Coordinator Examination Controller NBA/NIRF Coordinator Officer in-Charge Electrical Maintenance		
Association with Professional Bodies	IEEE ISTE SESI		
Any other Achievements			

Research Publications-Journals

- [1] Photovoltaic Partial Shading Performance Evaluation With a DSTATCOM Controller, IEEE Access, 2022, Digital Object Identifier 10.1109/ACCESS.2022.3186906 (SCI/SCIE)
- [2] Design of an evolving Fuzzy PID controller for optimal trajectory control of a 7 DOF redundant manipulator with prioritized sub-tasks, Elsevier: Expert Systems with Applications, 2019 <https://doi.org/10.1016/j.eswa.2019.113021>, 2019 (SCI/SCIE)
- [3] Centroid Analogy-Based MPPT Technique for Uniformly Shaded Solar Photovoltaic Array, Springer: Iranian Journal of Science and Technology, Transaction of Electrical Engg., 2019, <https://doi.org/10.1007/s40998-019-00267-7> (SCI/SCIE)
- [4] Interval Type-2 Fuzzy Logic Control-Based Frequency Control of Hybrid Power System Using DMGS of PI Controller Applied Sciences, MDPI, 2021, <https://doi.org/10.3390/app112110217> (SCI/SCIE)
- [5] An ECG classification using DNN classifier with modified pigeon inspired optimizer, Multimedia Tools and Applications, 2022 (SCI/SCIE)
- [6] Arrhythmia classification based on improved monarch butterfly optimization algorithm, Journal of King Saud University-Computer and Information Sciences, 2022 (SCI/SCIE)
- [7] Operation and Control of a Hybrid Isolated Power System with Type-2 Fuzzy PID Controller, Springer: Iranian Journal of Science and Technology, Transaction of Electrical Engg, 2018, DOI 10.1007/s40998-018-0070-8 (SCI/SCIE)
- [8] Moth-Flame Optimization Based Fuzzy-PID Controller For Optimal Control of Active Magnetic Bearing System, Springer: Iranian Journal of Science and Technology, Transaction of Electrical Engg., 2018, doi.org/10.1007/s40998-018-0077-1 (SCI/SCIE)
- [9] ECG Arrhythmia Classification Algorithms, International Journal of Recent Technology and Engineering, Vol.8, Issue 3, Sept. 2019,
- [10] Comparative study of LVQ and BPN ECG Classifier, Inderscience International Journal of Computational Systems Engineering, Vol 4, 2018, doi.org/10.1504/IJCSYSE.2018.091393
- [11] FRT Analysis of Doubly Fed Induction Generator, International Journal of Futuristic Trends in Engineering & Technology, Vol.2(2), Jan.2015, <http://ijftet.wix.com/research#!vol-ii-issue-ii-jan15/c16t3>
- [12] Load Modeling - A Case Study, International Journal Of Advanced Research In Engineering Technology & Sciences, 2015, Vol.2, Issue 8, Aug.2015
- [13] Selection of Optimal Mother Wavelet for Fault Detection Using Discrete Wavelet Transform, International Journal of Advanced Research in Electrical, Electronics & Instrumentation Engg., Vol.2(6) June 2013
- [14] Steady State Modeling of Doubly Fed Induction Generator, International Journal of Enhanced research in Science, Technology & Engg., Vol.2(1), Jan. 2013
- [15] Transient Modeling of Doubly Fed Induction Generator, International Journal of Enhanced research in Science, Technology & Engg. Vol.2(1), Jan. 2013
- [16] Compensation Techniques for Improving FRT Capability of DFIG, International Journal of Engineering, Science and Technology Vol.3, No.1, Jan.2011
- [17] Inertial Response of Doubly-Fed Induction Generator and Its Investigation during Voltage Sags, International Journal of Electronic and Electrical Engineering Vol.10, No.1, 2010
- [18] Detailed Dynamic Modeling and Vector Control of Doubly Fed Induction Generator, International Journal of Applied Engineering Research Vol.5 (10), 2010
- [19] Robust Controllers-Based Power Control of Doubly Fed Induction Generator for Wind Energy, International Journal of Electrical Engineering Vol.3, No.1, 2010.
- [20] Investigation of Fault Ride Through Capability of Doubly Fed Induction Generator, International Journal of Electrical Engineering and Electrical Systems, Vol. 1, No 1, 2010
- [21] DFIG-Based Wind Farms and Their Performance with Thermal Connected Grid, Thammasat Int. Journal Science Tech. (0859-4074), Vol.15(1) and 2010
- [22] Doubly Fed Induction Generator Analysis Through Wavelet Technique, Journal of Engineering Science and Technology Review 2(1) and 2009
- [23] An Efficient Narrow Speed Control of Wound Rotor Induction Machine, Engineering Today (2180-0995), Vol. IX and 2007
- [24] An Iterative Technique for the Analysis of Self Excited Induction Generator, Engineering Today (2180-0995), Vol. VIII & 2006

Research Publications-Conferences

- [1] Particle Swarm Optimization-Based Intelligent Controller for Maximum Point Tracking of a Standalone Solar Photovoltaic Power System, ICCC-2020 at AITM, Tekkali, Andhra Pradesh, Aug.7-8,2020
- [2] ECG Classification Using DNN and GA Optimized Algorithm, Integrated Intelligence Enable Networks and Computing. Springer, 2021
- [3] Performance Comparison of Indirect Vector Controlled Induction Motor Drives, SMARTCOM 2020, June 26-27, 2020
- [4] Online-based Approach of Frequency Control of Micro-grid using GWO, SMARTCOM 2020, June 26-27, 2020
- [5] Modified Least-Square based Model Reduction using Time Moments and Markov Parameters, IEEE TENSYP 2019, June7-9, 2019
- [6] Stability Improvement in power system integrated with WECS using Dolphin Echolocation optimized hybrid PID plus FLC based PSS, International Conference on Innovation in Electrical Power Engineering, Communication and Computer Technology (IEPCCT 2019), Dec.13-14, 2019
- [7] Vector Controlled Induction Motor Drives Using RST Controller, Springer: Advances in Intelligent Systems and Computing (International Conference on Cognitive Informatics and Soft Computing), Dec.20-21, 2017
- [8] Comparative Study of Tachyarrhythmia ECG and Normal ECG, RICE, 2017.
- [9] Morphological changes in congestive heart failure ECG, IEEE International Conference on Advances in Computing, Communication, & Automation (ICACCA), Sept30-Oct.1, 2016.
- [10] Load Frequency Control of a Renewable Hybrid Power System with Simple Fuzzy Logic Controller, IEEE-ICCCA, April29-30, 2016.
- [11] PSO-Based Online Vector Controlled Induction Motor Drives, IEEE- ICEEOT, Mar.3rd -5th , 2016.
- [12] A Novel Tracking Control Technique of Capacitive Switching for Transient Mitigation, IEEE- ICEEOT, Mar.3rd -5th , 2016.
- [13] Evaluation of Voltage Unbalance Factor for the Performance Analysis of Induction Motor, IEEE-NSC, 14-16 Dec., 2015.
- [14] Vector Control of Induction Motor Using Indirect Method, International Conference on Advances in Engineering Science and Management, Nov.2015.
- [15] Harmonics Reduction and Disturbance Rejections of Doubly Fed Induction Generator Using Robust Controller, IEEE Conference "Indicon 2009.
- [16] An Experiment-Doubly Fed Induction Machine for Variable Speed Constant Frequency Applications, International Conference "PSACO" in Association with IEEE, 13-15 March 2008.
- [17] A Non-Conventional Approach for Generating Small Amount of Electricity, ICORE at New Delhi "Renewable: Fuelling the Economic Growth, 27-28 Nov. 2007.
- [18] Simplified Approach of the Analysis of Power Flow of Doubly Fed Induction Generator, CORE, 08-11 Feb.,2006.
- [19] Direct Torque Control of Induction Motor, National Conference on Contemporary Control, Nov.20-21, 2014.
- [20] Vector Control of Induction Motor Using Internal Mode Control, National Conference on Contemporary Control, Nov.20-21, 2014.
- [21] Effect of Reactance to Resistance Ratio on the Performance of Transmission Lines, National Conference on Technological Revolution in Electrical Engg.,(TREE), 22nd – 23rd May, 2014.
- [22] Performance of Wound Rotor Induction Motor using PWM Technique, National Conference on Technological Revolution in Electrical Engg.,(TREE), 22nd – 23rd May, 2014.
- [23] Experimental Analysis of Doubly Fed Induction Machine. National Conference on Power System Today, 29-30 June 2010