

DR. MAZHAR H. BALOCH PhD.

[HIGHER EDUCATION COMMISSIONS, ISLAMABAD PAKISTAN APPROVED SUPERVISOR]

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Cell: +96890147835 (Oman), **E-mail:** mazhar.baloch@asu.edu.om, mazhar.hussain08ele@gmail.com

Date of Birth 28/02/1985 **Resident ID** 127576898 **Passport No** AD3762654 (Valid Till July 2032)
(Omani)

Google scholar citations: 1390 **h-Index:** 20 **i10 Index:** 33

Google Scholar Link:

https://scholar.google.com/citations?hl=en&user=O50uuG8AAAAJ&view_op=list_works&sortby=pubdate

Scopus Citations Link: <https://www.scopus.com/authid/detail.uri?authorId=56715337200>

ORCID ID: <https://orcid.org/0000-0002-4027-049X>



Key Summary

Currently, Dr. Mazhar working as an Assistant Professor @ College of Engineering, A'Sharqiyah University, Ibra Sultanate of Oman. Dr. Mazhar Remained as an Associate Professor @ Electrical Engineering, Mehran UET, Sindh Pakistan from March 2019 to Oct 2022, and Dr. Mazhar did Doctoral Degree from the world top 20th ranked School, School of Electronics Information & Electrical Engineering, Shanghai Jiao Tong University China in 2017; he has more than 15 years' total experience as a researcher/engineering university professor/professional in industries. His research published in various reputable peer reviewed research Journals/Conferences. His field of interest is in all areas of Electrical Power & Energy Systems such as: Renewable Energy Management and Sustainable Energy Development, Control, Stability and Optimization of Wind Energy Conversion System, Energy Planning for Sustainable Development and Wind Energy Modeling, Power Economic and Management, Techno Economic Analysis, Computational Optimization Techniques, Hybrid Energy System (Wind-Solar-Hydro) Integration of Modeling, Design and Research on DC Microgrid system and AC Microgrid system, Solar energy prediction and optimizations through machine learning techniques.

Teaching and Research Responsibilities

- Working knowledge on Outcome Based Education (OBE) system implementation. In addition, experienced in preparing Outcome based Accreditation (OBA) reports (i.e., Self-Assessment & Compliances).
- Skilled in developing & implementing learning methods with student centered approach for better understanding.
- Expert in Project management and, skills, knowledge, and experience to achieve specific project objectives, strong **interpersonal skills such as artificial intelligence, machine learning** & ability to deal effectively in a team environment and Strive for continued excellence as a lifelong learner.

Teaching: To prepare and deliver Lectures, conduct Lab sessions, check assignments and lab reports, and conduct, also grade the periodical tests.

Research: To guide and supervise (undergraduate/Postgraduate) students for final year research projects.

Authorship: To author books which can be adopted as supplementary textbooks in engineering, science, and technology.

Student counseling: To help students in solving their difficulties in their courses of studies, assignments etc. and guide them to overcome their academic and non-academic problems.

Academic planning: To actively take part in the development of curriculum of existing programs and to foresee, plan and design new academic /degree programs on undergraduate/postgraduate levels, do academic planning, including attending meetings of senate, board of studies, board of faculty, and academic council.

Committee work: To participate in professional organizations of engineering, technology, planning to arrange a conference, seminars workshops (IEEE, IET etc).

Exam & Assessment work: To set the question papers, evaluate and grade the answer books of the courses taught by him, conduct lab/viva-voce examination, do the invigilation duty work for theory examination as and when assigned by the university authorities.

Admin work: To perform the admin responsibilities viz Dean/Director/Vice chancellor etc as and when assigned to him under the purview of act/statutes.

Student discipline: To take action against students as per relevant regulations and other etc.

Education History

Post Ph.D.	Electrical Power Engineering	Universiti Sains Malaysia, Malaysia	2019
Ph.D.	Electrical Power Engineering	Shanghai Jiao Tong University, Shanghai PRC	2017
M. Engg	Electrical Power Engineering	Mehran University of Engg & Tech Jamshoro Pakistan	2013
B. Engg	Electrical Power Engineering	Mehran University of Engg & Tech Jamshoro Pakistan	2008

Career History

~16 years' experience

Assistant Professor Electrical Engineering	@CoE, Al Sharqiyah University, Ibra, Oman	2022 to date (Oct 2022- to date)
Former Associate Professor Electrical Engineering	@Mehran University of Engg & Tech Jamshoro Pakistan	2019-2022 (Mar 2019-Oct 2022)
Former Assistant Professor Electrical Engineering	@Mehran University of Engg & Tech Jamshoro Pakistan	2014-2019 (Jul 2014-Mar 2019)
Former Lecturer Electrical Engineering	@CoE, The Islamia University, Bahawalpur Pakistan	2012-2014 (Jul 2012-Jul 2014)
Former Lecturer Electrical Engineering	@Swedish College of Engg & Tech Rahim Yar Khan Pakistan	2010-2012 (Mar2019-Oct2022)
Former Site Engineer Electrical	@Construction Builders, Hyderabad Pakistan	2009-2010 (2Years)
Former Project Engineer Electrical	@Research & Development Foundation Pakistan	2008-2008 (4-Months)
Former Lecturer Electrical Engineering	@Mehran University of Engg & Tech Jamshoro Pakistan	2008-2008 (8-Months)

Administrative/Management Work Experience

Member in Quality Committee	CoE @A' Sharqiyah University, Oman	2022-to date
Member in Academia and Industrial Linkages Committee	CoE @A' Sharqiyah University, Oman	2022-to date
Member in CoE Research Committees	CoE @A' Sharqiyah University, Oman	2023-to date
Member of Electrical Engineering Laboratories installations and Commission such as: (Renewable Energy Lab, Power Systems Lab, Electrical Machines Lab, Control Systems Lab, Power Electronics Lab)	CoE @A' Sharqiyah University, Oman	2022-to date
Member of new Engineering programs such as: (Artificial Intelligence)	CoE @A' Sharqiyah University, Oman	2023-to date
Member of block funding research proposal evaluation Committee	@A' Sharqiyah University, Oman	2024-to date
Students Advisor	CoE @A' Sharqiyah University, Oman	2022-to date
Academic Board Member	CoE @A' Sharqiyah University, Oman	2024-to date
HoD (Electronics and Communication Engineering Dept)	CoE @A' Sharqiyah University, Oman	June 2023-to August 2023
HoD (Chairman) Electrical Engineering,	@Department, Mehran University of Engg & Tech Pakistan	2020-2022 (Feb2020-Oct2022)
Focal Person Offices of Research, Innovation & Commercialization ORIC	@Mehran University of Engg & Tech Pakistan	2018-2019 (Jan2018-Oct2019)
Quality Auditor Offices of Quality Enhancement Cell	@Mehran University of Engg & Tech Pakistan	2018-2019 (Jan2018-Oct2019)
Convener Outcome Based Education (OBE) System Washington Accord, USA	@Mehran University of Engg & Tech Pakistan	2020-2022
Convener Calibration/Testing Lab Electrical Engineering (Power)	@ Mehran University of Engg & Tech Pakistan	2020-2022
Convener Course Review Committee Electrical Engineering (Power)	- @Mehran University of Engg & Tech Pakistan	2020-2022
Convener Sports Committee	@Mehran University of Engg & Tech Pakistan	2020-2022
Convener Sports purchasing committee	@Mehran University of Engg & Tech Pakistan	2020-2022

Taught/Teaching Courses in Undergraduate and Post-Graduate

Digital systems, Control systems, Power Systems, Instrumentation & Measurement's, High Voltage Engg, Applied Engg Maths, Industrial Instt, Power System Operation & Control, Renewable Energy.	Undergraduate	@ A'Sharqiyah University, Oman	2022-to date
Applied Physics, Linear Circuit Analysis, Electrical Network Analysis, Electronic Devices, Electrical Machines, Digital Logic Design, Power Generation, Communication Systems, Advanced Electrical Machines, Electrical Power Transmission, Power Economics & Management, Linear Control Systems, Power System Analysis, Power Distribution & Utilization, and Power System Protection.	Undergraduate	@ USM, Malaysia, and (Mehran UET, Islamia Uni Bhp, and Swedish College Engg Tech RYK)	2008-2022
Electrical Power Transmission and Distribution, Power System Stability & Control, Power System Analysis, Power System Protection, Energy Management, Power System Planning & Management, Power Distribution & Utilization.	Postgraduate	@ USM, Malaysia, and (Mehran UET, Islamia Uni Bhp, Swedish college Engg Tech RYK)	2008-2022

Professional/Community Services

Associate Editor	Frontiers Research Journal		2022-to date
Editor	International Journal of Electrical Engineering and Emerging Technology		2022 to date
Conference Secretary	International Conference on Mathematics and Applied Science Held @ Mehran University of Engineering & Technology Pakistan		March 2022
Keynote Speaker	Renewable and Fossil Fuel Energy Symposium: Wind Energy an alternative approach for Power Generation, Karachi Pakistan.		2022
Reviewers	Various International Journals i.e IEEE, Elsevier, Wiley etc		2017 to date
Technical Expert (Electrical)	Bahawalpur region for re-accreditation of Various Technical Colleges		2013
Expert as a Board of Studies	Technical University Khairpur Mirs, Pakistan		2020 to 2022
Technical Session expert	International Conference @ IBA Sukkur		2018 & 2021
Expert as an External Examiner	MUET, QUEST, IBA, Technical University Khairpur Mirs, Swedish College RYK, ISRA University Hyderabad, GCT Rahim Yar Khan, GCT Bahawalpur, GCT Hyderabad		2017-2022

Continuous Professional Development Courses

- Matlab for Engineers
- Accreditation Online Learning System of Higher Education Institutes under the Lockdown Situations-Threats and Opportunities
- Improvement of Voltage Stability in AC Distribution Networks by optimized Control of Converters of connected Customers
- Modern Energy Trading Practice: An Overview of Different Energy Market Algorithms and Market Structure
- Teaching is an Art"
- Managing Stress for Enhanced Performance"
- Special Workshop on High Impact Factor Survey/Review Paper/ Writing and Publishing the Research Papers

Research Projects Grants

- Granted Research Grants Project from Ministry of Higher Education & Research Innovation (MOHERI), @ A'Sharqiyah University Oman **(Funding 20,000.0 Omani Riyals)** 2023
- Granted Research Grants Project from Sindh HEC Pakistan, **(Funding 4.0 M PkR)** 2021
- Granted an Ignite Research Grants Project from ignite Pakistan, **(Funding 0.16 M PkR)** 2021
- Granted an Ignite Research Grants Project from ignite Pakistan, **(Funding 0.17 M PkR)** 2020
- Granted a Startup Research Grants Project (SRGP) from HEC Pakistan, **(Funding 0.36 M PkR)** 2017
- Granted a Startup Research Grants Project (SRGP) from HEC Pakistan, **(Funding 0.42 M PkR)** 2018
- Granted Malaysian Government Award for Post-Doctoral Fellowship Program. **(Funding 4.2 M PkR)** 2018
- Granted Chinese Government Scholarship Award (Full) for Doctoral Program, **(Funding 10.0 M PkR)** 2014
- Awarded Excellent International Student Award among 1500 International Students on Best Research /PhD Performance in SJTU from Ministry of Education, PR China 2014
- Awarded Excellent International Student Award among 1700 International Students on Best Research/PhD Performance from Shanghai Jiao Tong University. 2015
- Awarded Excellent International Student Award among 1700 International Students on Best Research/PhD Performance from Shanghai Jiao Tong University. 2016
- Awarded Best PhD Student among 1700 International Students from Shanghai Government China 2017
- Awarded Best Student Award from Research Lab at SJTU 2017
- Awarded Champions in Cricket and Badminton @ SJTU 2016

#	Year	Research Paper Title (Peer Reviewed)	Citations	Category
1	2023	Soomro, M.; Memon, Z.A.; Mazhar H. Baloch ; Mirjat, N.H.; Kumar, L.; Tran, Q.T.; Zizzo, G. Performance Improvement of Grid-Integrated Doubly Fed Induction Generator under Asymmetrical and Symmetrical Faults. <i>Energies</i> 2023, 16, 3350. https://doi.org/10.3390/en16083350 .	167	3.6 IF
2	2023	Manaf Zghaibeh, Ikram Ben Belgacem, El Manaa Barhoumi, Mazhar H. Baloch , et.al., Optimization of green hydrogen production in hydroelectric-photovoltaic grid connected power station, International Journal of Hydrogen Energy, available online 28 June 2023, https://doi.org/10.1016/j.ijhydene.2023.06.020 .		6.6 IF
3	2023	Shah, A.A.; Aftab, A.A.; Han, X.; Mazhar H. Baloch ; Honnurvali, M.S.; Chauhdary, S.T. Prediction Error-Based Power Forecasting of Wind Energy System Using Hybrid WT-ROPSO-NARMAX Model. <i>Energies</i> 2023, 16, 3295. https://doi.org/10.3390/en16073295 .		3.6 IF
4	2023	Memon, Ali Asghar, Hao Chen, and Mazhar H. Baloch , "Transient modelling and simulation of a switched reluctance machine in different operating modes." <i>Mehran University Research Journal of Engineering & Technology</i> 42.2 (2023): 151-157		0.6 IF
5	2023	Muhammad Imran Ghoto, Mazhar H. Baloch , Touqeer Ahmed Jummani, Ali Asghar Memon, Parameters extraction of photovoltaic cells using swarm intelligence based optimization technique: research on single diode model and double diode model, <i>Mehran University Research Journal Of Engineering & Technology</i> 42.2 (2023): 158-168.		0.6 IF
6	2023	Feryal Ibrahim Jabbar, Dur Muhammad Soomro, Mohd Noor bin Abdullah, Nur Hanis Mohammad Radzi, Mazhar Hussain Baloch , Asif Ahmed Rahmoon, Hassan Falah FakhruLdeen Optimize single line to ground fault detection in distribution grid power system using artificial bee colony, <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 31, 3, Pages 1286-1294, 2023.		Scopus
7	2023			Scopus
1	2022	ZM, Mazhar H. Baloch et al., A review on design parameters and specifications of parabolic solar dish Stirling systems and their applications, <i>Energy Reports</i> , Vol 8, pp- 4128-4154, 2022.	241	6.922 IF
2	2022	Aaqib Raza, Mazhar H Baloch, et.al. , Artificial Intelligence and IoT-Based Autonomous Hybrid Electric Vehicle with Self-Charging Infrastructure, 2022 International Conference on Emerging Technologies in Electronics, Computing and Communication (ICETECC), IEEE.		Scopus
3	2022	Awais Ali Khoso, Mazhar H. Baloch et al. , The Development of Solar Powered Carport Canopies for the Charging Infrastructure of Electric Vehicles, 2022 International Conference on Emerging Technologies in Electronics, Computing and Communication (ICETECC), IEEE.		Scopus
4	2022	MASoomro, ZA Memon, Mahesh K, Mazhar H Baloch Performance Improvement of Grid Integrated Doubly Fed Induction Generator Under Asymmetrical and Symmetrical Faults, <i>International Journal of Energy Reports</i> , 7 (2021) 6031-6043		6.922 IF
5	2022	MASoomro, ZA Memon, Mahesh K, Mazhar H Baloch Symmetrical Fault Assessment of Grid Integrated Doubly Fed Induction Generator Using Modified Super-Twisting Fractional Order Terminal Sliding Mode Controller ICCE 2022 Accepted.		Scopus
1	2021	A Ahmed, Mazhar H Baloch , BA Mirjat, AA Memon, TA Jumani, A Research On Various PV Arrays Manufacturing Data For Power Comparison And Optimization Through Extremum Seeking Technique, <i>IBA Sukkur Journal</i> , Vol. 4, No. 1, pp.59-66 January – June 2021.	256	Web of Science
2	2021	AA Memon, S Ghirana, AR Junejo, MF Memon, Mazhar H Baloch , Impacts of Converting Overhead Distribution Network of 132/11.5 kV Qasimabad Grid Station Into Underground Distribution Network, 2021 6th International Multi-Topic ICT Conference (IMTIC), 1-5		Scopus
3	2021	Ali Shan Sayed, Mazhar H Baloch et al. , An Effective MPPT Controller for Power Optimization of PMSG Based Wind Turbine, 2021 International Conference on Computing, Electronic and Electrical Engineering (ICE Cube) 978-1-6654-0154- 8/21/\$31.00 ©2021 IEEE DOI: 10.1109/ICECube53880.2021.9628357		Scopus
4	2021	MASoomro, ZA Memon, Mahesh K, Mazhar H Baloch , Wind energy integration: Dynamic modeling and control of DFIG based on super twisting fractional order terminal sliding mode controller, <i>Energy Reports</i> , Vol. 7, pp- 6031-6043, 2021.		Web of Science
5	2021	Mazhar H Baloch , AM Soomro, ESH Memon, DM Soomro, Analysis of Harmonic Distortion Reduction through Modular Multi-Level Inverter using Nearest Level Modulation (NLM) Control Strategy <i>IBA Sukkur Journal</i> , Vol. 4, No. 1, pp.67-79 January – June 2021.		Web of Science
6	2021	MZ Malik, Mazhar H Baloch , B Ali, SH Khahro, AM Soomro, G Abbas, S Zhang, Power Supply to Local Communities Through Wind Energy Integration: An Opportunity Through China Pakistan Economic Corridor (CPEC), <i>IEEE Access</i> , Volume 9, pp. 66751- 66768, 2021, DOI 10.1109/ACCESS.2021.3076181.		4.6 IF
7	2021	MZ Malik, PH Shaikh, SA Khatri, MS Shaikh, Mazhar H Baloch , F Shaikh, Analysis of multi-objective optimization: a technical proposal for energy and comfort management in buildings, <i>International Transactions on Electrical Energy Systems</i> , Vol 31, No.2, pp. e12736.		1.36 IF
8	2021	T Ahmed, Mazhar H Baloch , N Khan, G Mehr, BA Mirjat, YA Memon, Experimental Analysis and Control of a Wind- Generator System through a DC-DC Boost Converter for Extremum Seeking" <i>Engineering, Technology & Applied Science Research Journal</i> , Vol. 11, N0. 1, 2021, 6714-6718.		Web of Science
9	2021	G Mustafa, Mazhar H Baloch , SH Qazi, S Tahir, N Khan, BA Mirjat, An Experimental investigation & Control of Hybrid (PV-Wind) Energy Power System, <i>Engineering, Technology & Applied Science Research Journal</i> , Vol. 11, N0. 1, 2021, 6781- 6786.		Web of Science
1	2020	MZ Malik, A Ali, GS Kaloi, AM Soomro, Mazhar H Baloch , ST Chauhdary, Integration of Renewable Energy Project: A Technical Proposal for Rural Electrification to Local Communities,"	3.36 IF	

IEEE Access, Vol. 8, pp. 91448-91467, 2020, doi: 10.1109/ACCESS.2020.2993903.

2 2020 WA Wattoo, *Mazhar H Baloch* et.al., Analysis of multi-objective optimization: a technical proposal for energy and comfort management in buildings, *International Transactions on Electrical Energy Systems*, DOI: 10.1002/2050-7038.12736, e12736. 1.6 IF

3 2020 MZ Malik, M Kumar, AM Soomro, *Mazhar H Baloch*, M Gul, M Farhan, GS Kaloi, Strategic planning of renewable distributed generation in radial distribution system using advanced MOPSO method, *Energy Reports*, Volume 6 Pages 2872-2886,2020. 3.36 IF

4 2020 Dur M.Soomro, S. K. Alswed, M.N bin Abdullah, Nur Hanis *Mazhar H Baloch*, Optimal design of a single-phase APF basedon PQ theory, *International Journal of Power Electronics and Drive System (IJPEDS)* Vol. 11, No. 3, September 2020, pp. 1360-1367 ISSN: 2088-8694, DOI: 10.11591/ijped.s.v11.i3. pp.1360-1367. 165 Scopus

5 2020 FI Jabbar, D Soomro, AH Tawafan, MNB Abdullah, NHBM Radzi, *Mazhar H Baloch*, Optimization of detection single line to ground fault based on (ABCNN) algorithm *International journal of Artificial Intelligence*, Vol. 9, No. 4, December 2020, pp. 623-629, DOI: 10.11591/ijai. V 9.i4. pp. 623-629. Scopus

6 2020 MZ Malik, *Mazhar H Baloch*, M Gul, GS Kaloi, ST Chauhdary, AA Memon, A research on conventional and modern algorithms for maximum power extraction from wind energy conversion system: a review, *Environmental Science and Pollution Research* https://doi.org/10.1007/s11356-020-11558-6, 2020. 3.0 IF

7 2020 Feryal Ibrahim Jabbar, Dur Muhammad Soomro, Adnan Hasan Tawafan, Mohd, *Mazhar H Baloch*, Optimization of detection of single line to ground fault by controlling Peterson coil through ANFIS, *International Journal of Artificial Intelligence*, Vol. 9, No. 3, September 2020, pp. 409-416, DOI: 10.11591/ijai.v9.i3.pp409-416. Scopus

8 2020 WA Wattoo, *Mazhar H Baloch* et.al., Optimal Asset Allocation Strategy for Suppliers Paying Carbon Tax in the Competitive Electricity Market., *Journal of Electrical Engineering and Technology (JEET)*, Vol. 14, No. 6, pp.1-11, 2019. 0.67 IF

9 2020 A Raza, *Mazhar H Baloch*, S Hussain, MZ Malik, I Ali, A Ali, D Kumar, A Ali, A Home Automation Through Android Mobile App by Using Arduino UNO, *IEEE 23rd International Multitopic Conference (INMIC)*, pp.1-6, 2020. Scopus

10 2020 MZ Malik, K Zehra, I Ali, M Ismail, A Hussain, V Kumar, M Abid, *Mazhar H Baloch*, Solar-Wind Hybrid Energy Generation System, *IEEE 23rd International Multitopic Conference (INMIC)*, pp.1-6, 2020. Scopus

1 2019 DM Soomro, YW Keat, *Mazhar H Baloch*, MN Abdullah, NHM Radzi, ZA Memon., Mitigation of Voltage Sag Caused by Unbalanced Load by Using DFT Controlled DVR," 2019 IEEE International Conference on Innovative Research and Development (ICIRD), Jakarta, Indonesia, 2019, pp. 1-6. Scopus

2 2019 *Mazhar H Baloch* et.al., Feasibility Study of a Large-Scale & Wind Farm in Sujawal, Sindh Province of Pakistan through Two Economic Models: Levelized Cost of Energy (LCOE) & Cash Flow Model, *SSRG International Journal of Economics and Management Studies (SSRG-IJEMS)*, Vol. 6 Issue 8, Aug 2019. EBSCO

3 2019 *Mazhar H Baloch*, J Wang, GS Kaloi, AA Memon, AS Larik, P Sharma, Techno-Economic Analysis of Power Generation from a Potential Wind Corridor of Pakistan: An Overview, in the *Journal of "Environmental Progress and Sustainable Energy"*, Vol. 38, No. 2, pp. 706-720, DOI 10.1002/ep, 2019. 1.9 IF

4 2019 GS Kaloi, *Mazhar H Baloch*, M Kumar, DM Soomro, ST Chauhdary, AA Memon, An LVRT Scheme for Grid Connected DFIBased WECS Using State Feedback Linearization Control Technique, *Electronics 8 (7)*, 777, 2019. (Impact Factor 2.11). (ISI/Q2). 2.11 IF

5 2019 T Irshad, D Ishak, *Mazhar H Baloch*, Comparative Analysis of Rectangular and Circular Four-resonator Coil System for Wireless Power Transfer Using Magnetic Resonance Coupling Technique, *European Journal of Electrical Engg*, Vol. 21, No. 1, February, 2019, pp. 67-73. Scopus

6 2019 MH Nadeem, X Zheng, N Tai, *Mazhar H Baloch*, M Yu, Y He, Transient Harmonic Voltage based Protection Scheme for Multi-terminal HVDC Transmission Networks, *IEEE International Conference on Industrial Technology (ICIT)*, 2019, DOI: 10.1109/ICIT.2019.8755029, Scopus

7 2019 *Mazhar H Baloch*, ST Chauhdary, D Ishak, GS Kaloi, MH Nadeem, WA Wattoo, Hybrid Energy Sources Status of Pakistan: An Optimal Technical Proposal to Solve the Power Crises Issues, *Energy Strategy Reviews*, Vol. 24, pp.132-153 (2019). 157 2.63 IF

8 2019 *Mazhar H Baloch*, D Ishak, S Tahir Chaudary, B Ali, A Asghar Memon, Wind Power Integration: An Experimental Investigation for Powering Local Communities, *Energies*, Vol. 12, No. 621 (2019). 2.67 IF

9 2019 TA Jumani, MW Mustafa, M Md Rasid, N Hussain Mirjat *Mazhar H Baloch*, Optimal Power Flow Controller for Grid- Connected Microgrids using Grasshopper Optimization Algorithm, *Electronics*, Vol. 8, No. 111, PP. 1-22, (2019). 2.11 IF

10 2019 Baqir Ali, *Mazhar H Baloch* et.al., Wind Energy Potential Assessment and Mapping through Various Distribution Techniques: An Experimental Investigation for Windy Regions, *International Journal on Energy Conversion (IRECON)* Vol. 7, No. 1, 2019. Scopus

11 2019 M Kumar, B Das, *Mazhar H Baloch*, P Nallagownden, I Elamvazuthi, A Ali, Optimal Placement and Sizing of distributed Generators and distributed static compensator in radial distribution system *International Journal of Energy Optimization and Eng. (IJEOE)*, vol.7, Issue 4, 2019. Web of Science

12 2019 B. Memon, *Mazhar H Baloch* et.al. , Assessment of Wind Power Potential Based on Raleigh Distribution Model: An Experimental Investigation for Coastal Zone, *Engineering, Technology & Applied Science Research Journal*, Vol. 9, NO. 1, 2019, 3721-3725. Web of Science

13 2019 Majid Ali Tunio, Pervez Hameed Shaikh, *Mazhar H Baloch*, Fabrication and Performance Analysis of Solar Tracking System by Using By-Pass Diodes and Super-Capacitor Technology, *International Journal of Modern Research in Engineering & Management (IJMREM)*, Vol 2, Issue 01, 2019, 45-48. EBSCO

1	2018	AH Memon, <i>Mazhar H Baloch</i> , AA Sahito, AM Soomro, ZA Memon, Achieving High Input Power Factor for Critical Conduction Mode Buck-Buck/Boost Converter, <i>IEEE Access Journal</i> , vol: 6, pp: 79082 – 79093.	3.6 IF
2	2018	M Hussain, <i>Mazhar H Baloch</i> , AH Memon, NK Pathan, Maximum Power Tracking System Based on Power Electronic Topology for Wind Energy Conversion System Applications" <i>Engineering, Technology & Applied Science Research Journal</i> , Vol. 8, No. 5, 2018, 3392-3397.	Web of Science
3	2018	AA Memon, SAA Shah, W Shah, <i>Mazhar H Baloch</i> , GS Kaloi, NH Mirjat, A Flexible Mathematical Model for Dissimilar Operational Modes of a Switched Reluctance Machine, <i>IEEE Access Journal</i> , vol: 6, pp: 9643-9649, (2018).	110 3.6 IF
4	2018	S Tahir, J Wang, <i>Mazhar H Baloch</i> , et.al., Digital Control Techniques Based on Voltage Source Inverters in Renewable Energy Applications: A Review." <i>Electronics</i> , Vol. 7, No. 2, (2018).	2.11 IF
5	2018	M Kumar, ZA Memon, MA Uqaili, <i>Mazhar H Baloch</i> , Experimental Testing of 210 MW Generator at Thermal Power Station, <i>International Journal of Energy Optimization and Engineering (IJEQE)</i> , vol.7, Issue 4, Oct, 2018.	Web of Science
6	2018	MK, ZAM, MAU, <i>Mazhar H Baloch</i> , An Overview of Uninterruptible Power Supply System with Total Harmonic Analysis & Mitigation: An Experimental Investigation for Renewable Energy Applications, <i>International Journal of Computer Science and Network Security</i> , vol.18 No.6, June 2018.	Web of Science
7	2018	S Mahesar, <i>Mazhar H Baloch</i> , GS Kaloi, M Kumar, AM Soomro, AA Solangi, Power Management of a Stand-Alone Hybrid wind/solar/Battery Energy System: An Experimental Investigation <i>International Journal of Advanced Computer Science and Applications</i> , vol.9, Issue 6, June 2018.	Web of Science
8	2018	M Ahmad, Z Wang, J Wang, <i>Mazhar H Baloch</i> , B Longxin, Q Hua, HVDC Transmission an Outlook and Significance for Pakistani Power Sector, 2018 IOP Conf. Ser.: <i>Earth Environ. Sci.</i> 133 012004.	Scopus
1	2017	Sohaib Tahir, <i>Mazhar H Baloch</i> et al. A Comprehensive Technical Model for Power Generation through Pumped Hydro Electric Energy Storage (PHES) Concept: A Hawks-bay Case Study," <i>Interciencia Journal</i> ; 2017 42(10).	0.28 IF
2	2017	<i>Mazhar H Baloch</i> , SA Abro, G Sarwar Kaloi, NH Mirjat, S Tahir, MH Nadeem, A Research on Electricity Generation from Wind Corridors of Pakistan (Two Provinces): A Technical Proposal for Remote Zones", <i>Sustainability</i> , 2017; 9(9):1611.	2.08 IF
3	2017	MG, <i>Mazhar H Baloch</i> , Nadeem, X Zheng, N.Tai, Analysis of Fault Current Contribution and Impact of Key Parameters in MTDC Network", <i>Interciencia Journal</i> ; 2017 42(11).	0.28 IF
4	2017	S Tahir, J Wang, GS Kaloi, <i>Mazhar H Baloch</i> , Robust digital deadbeat control design technique for 3 phase VSI with disturbance observer", <i>IEICE Electronics Express</i> , 14.13 (2017): 0351-0351.	0.456 IF
5	2017	<i>Mazhar H Baloch</i> , WA Wattoo, D Kumar, GS Kaloi, AA Memon, S Tahir, Active and Reactive Power Control of a Variable speed Wind Energy Conversion System Based on Cage Generator, <i>International Journal of Advanced Computer Science and Applications</i> , Vol. 8, No. 9, 2017. (Emerging Source Citation Index), (ISI/Q4).	Web of Science
6	2017	GS Kaloi, J Wang, <i>Mazhar H Baloch</i> , S Tahir, Wind Energy Potential at Badin and Pasni Costal Line of Pakistan." <i>International Journal of Renewable Energy Development</i> 6.2 (2017): 103. (Emerging Source Citation Index), (ISI/Q4).	66 Web of Science
7	2017	GS Kaloi, <i>Mazhar H Baloch</i> , M Gul, MH Nadeem, S Tahir, M Ahmad, Analysis and Modeling of Wind Turbine with a Grid- Connected Doubly Fed Induction Generator" <i>International Journal of Computer Science and Information Security</i> , Vol. 15, No. 01, January 2017. (Scopus/Q4)	Web of Science
8	2017	MYMG, M. H Nadeem, S.Tahir, <i>Mazhar H Baloch</i> , GS Kaloi , Power Factor Improvements and its Effective Strategy to Optimize the kWh", <i>International Journal of Computer Science and Information Security</i> , Vol. 15, No. 04, April 2017. (Scopus/Q4)	Web of Science
9	2017	S.Tahir, <i>Mazhar H Baloch</i> , Wang Jie, Zhang Dan, GS Kaloi, Power Compensation of an Induction Generator for Variable Speed Wind Energy System [OL] [10-May-2017] http://www.paper.edu.cn/en_releasepaper/content/4731854 .	EBSCO
10	2017	GS Kaloi, <i>Mazhar H Baloch</i> et.al., Stability and Control Analysis of Doubly Fed Induction Generator Wind Turbine System [OL], [31 May 2017] http://www.paper.edu.cn/en_releasepaper/content/4734485 .	EBSCO
1	2016	<i>Mazhar H Baloch</i> , J Wang, GS Kaloi, Stability and nonlinear controller analysis of wind energy conversion system with random wind speed." <i>International Journal of Electrical Power & Energy Systems</i> 79 (2016): 75-83. (Impact Factor =3.3), (ISI/Q1).	3.3 IF
2	2016	Z Zhu, J Wang, <i>Mazhar H Baloch</i> , Dynamic economic emission dispatch using modified NSGA-II." <i>International Transactions on Electrical Energy Systems</i> 26.12 (2016): 2684-2698.	1.085 IF
3	2016	GS Kaloi J Wang, <i>Mazhar H Baloch</i> , Dynamic Modeling and Control of DFIG for Wind Energy Conversion System Using Feedback Linearization, <i>Journal of Electrical Engineering and Technology (JEET)</i> , 11.5(2016): pp-1137-1146.	0.67 IF
4	2016	<i>Mazhar H Baloch</i> , GS Kaloi, ZA Memon, Current scenario of the wind energy in Pakistan challenges and future perspectives:A case study." <i>Energy Reports</i> 2 (2016): 201-210.	23 Web of science
5	2016	GS Kaloi, J Wang, <i>Mazhar H Baloch</i> , Active and reactive power control of the doubly fed induction generator based on windenergy conversion system." <i>Energy Reports</i> 2 (2016): 194-200.	Web of science
6	2016	<i>Mazhar H Baloch</i> , J Wang, GS Kaloi, A Review of the State of the Art Control Techniques for Wind Energy Conversion System." <i>International Journal of Renewable Energy Research (IJRER)</i> 6.4 (2016): 1276-1295.	Web of science
7	2016	<i>Mazhar H Baloch</i> , GS Kaloi, J Wang, Dynamic Modeling and Control of Wind Turbine Scheme Based on Cage Generator for Power System Stability Studies." <i>International Journal of Renewable Energy Research (IJRER)</i> 6.2 (2016): 599-606.	Web of science

8	2016	GS Kaloi, J Wang, <i>Mazhar H Baloch</i> , Study of Stability Analysis of a Grid Connected Doubly Fed Induction Generator Based on Wind Energy Application, <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , Vol. 3, No. 2, August 2016, pp. 305 ~ 313.	Scopus
9	2016	<i>Mazhar H Baloch</i> , MH Nadeem, GS Kaloi, S Tahir, AS Larik, MW Khan, Feedback Linearization Control Scheme of a Wind- Generator System Based on SCIG, <i>International Journal of Computer Science and Information Security</i> , Vol. 14, No. 11, November 2016.	Web of science
10	2016	GS Kaloi, <i>Mazhar H Baloch</i> , Smart Grid Implementation and Development in Pakistan: A Point of View." <i>Science International</i> 28.4 (2016).	Web of science
1	2015	<i>Mazhar H Baloch</i> et.al., Feasible Wind Power Potential from Costal Line of Sindh Pakistan." <i>Research Journal of Applied Sciences, Engineering and Technology</i> 10.4 (2015): 393-400. (Scopus/Q3)	Scopus
2	2015	<i>Mazhar H Baloch</i> et.al., A Point of View: Analysis and Investigation of Wind Power from Southern Region of Pakistan." <i>International Journal on Energy Conversion (IRECON)</i> 3.3 (2015): 103-110. (Scopus/Q3)	Scopus
3	2015	MU, <i>Mazhar H Baloch</i> et.al., Impact of Solar Energy Based Power Grid for Future Prospective of Pakistan, <i>International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering</i> vol: 9, No: 1, 2015. (EBSCO).	EBSCO
1	2014	GS Kaloi, <i>Mazhar H Baloch</i> , MK MaheshwarI, RB Lashari, Analysis and Estimation of Technical Losses in Urban Distribution Feeders Bahawalpur." <i>Sindh University Research Journal-SURJ (Science Series)</i> 46, no. 1 (2014).	Web of science
2	2014	Mahesh Kumar, <i>Mazhar H Baloch</i> , GS Kaloi, Energy Conservation and Emission Reduction through Electric Motors in Industrial Sector of Pakistan." <i>Sindh University Research Journal-SURJ (Science Series)</i> 46, no. 1 (2014).	Web of science
1	2013	<i>Mazhar H Baloch</i> , MK Maheshwari, AA Memon Energy Conservation through Energy Efficient Motors in Pakistan's IndustrialSector." <i>Sindh University Research Journal-SURJ (Science Series)</i> 45.3 (2013).	Web of science
2	2013	MK, <i>Mazhar H Baloch</i> et.al., Need of Escalating Energy Efficiency Standards of Motors In Industrial Sector Of Pakistan", First International Conference on Modern Communication & Computing Technologies (MCCT'14), QUEST, Nawabshah, Sindh, Pakistan. 2013.	EBSCO
3	2013	MUS, <i>Mazhar H Baloch</i> et.al., Performance of 220kV Transmission Line Calculation for Diverse Operating Conditions for Smart Power Bulk Transfer, QUEST, in International Conference 2013.	EBSCO
4	2013	MUS, <i>Mazhar H Baloch</i> et.al., Smart SCADA Implementation for Small Industry, International conference in Superior University 2013.	EBSCO
5	2013	MUS, <i>Mazhar H Baloch</i> et.al., Impact of Solar Energy Based Power Grid for Future Prospective of Pakistan, International conference in Superior University 2013.	EBSCO

National/International Memberships

- Pakistan Engineering Council (PEC) "RE Member" (Life time Membership) Elect/23873
- International Association of Engineers Membership No: 156076
- Shanghai Jiao Tong University Alumni
- Mehran University Teachers Association
- Technical University Khairpur Mirs BoS Member
- Technical University Khairpur Mirs Selection Board/Committee Member
- Universiti Sains Malaysia (USM), Malaysia Member

Skills/Software's/Workshop/Seminars/Training

Artificial Intelligence, Machine Learnings, Matlab, PSCAD, Advanced System Design, Endnote, Mendaly, Origion Pro, MS Office, MS Visio, HOMER PRO, C/C++ , and edraw software,
 Research grants for students, Research grants for exchange students, Post-doc Research grants, IEEE training workshop, IEEE digital library, Research Proposal, Wining Research proposal grants, Matlab workshop and various other

Community Services as Reviewers

1. **Project title:** Development of Methods and Control Techniques for Compensating Variability of Solar Photovoltaic Power Systems HEC NRPU Pakistan (2021)
2. **Project title:** Design of Hardware-in-Loop simulator for Modular Multilevel Converters
3. **Project title:** Peer-to-Peer Load and Energy Management System for Local Distribution Grid
4. **Project title:** Solid State Transformer for Smart Energy Management
5. **Project title:** Emerging Trend of Electric Vehicle in Pakistan Employ for Resilience of Electric Grid
6. **Project title:** Designing and Implementation of an Efficient, Indigenous and Regional Energy Management Model Using Load Forecasting Techniques
7. **Project title:** Design and development of multi stage power inverters for Photovoltaic systems
8. **Project title:** Design of fully integrated DC-DC voltage converter for space satellites
9. **Project title:** Energy Profiling of Residential Customers in Pakistan for Disaggregation based Load Characterization

1. **Project title:** A Novel Intelligent Dynamic Energy Management System with Renewable Sources for Smart Power Grid in Pakistan
2. **Project title:** Developing Wind Forecasting System with Sparse Data Using Long Short-Term Memory (LSTM) Neural Networks.
3. **Project title:** Development of stable and efficient perovskite solar cells for Internet of things (IoT) devices.
4. **Project title:** Perovskite Oxide Solar Cell - Next Chapter of Energy Harvesting.
5. **Project title:** Performance Enhancement of Concentrated Solar Power System for Thermal Desalination of Water using a Variety of Techniques.
6. **Project title:** Harvesting the sun – advancing solar driven photocatalytic hydrogen fuel production.
7. **Project title:** Probabilistic Estimation of Wind Speed Characteristics for Pakistan's Southern Wind Corridor
1. **Project title:** Development of Power Conditioning Unit for PV Panel

HEC NRP
Pakistan (2022)

PSF,
Pakistan_2022

- Indian Journal of Science and Technology ISI: Research Paper: *Statistical Analysis of Wind Potential in Three Coastal Regions of Baluchistan, Minor revisions* 2021
- Mechanical Engineering Technologies and Applications Book Chapter *Structural Design of a 10 kW H-Darrieus Wind Turbine, Minor revisions.*
- IEEE Journal of Emerging and Selected Topics in Power Electronics *Science Citation Index_Research Paper: Reflection Coefficient Stability Criterion for Multi-Bus Multi VSC Power Systems, Accepted* 2020
- SN Applied Sciences Scopus *Research Paper: Technical and Economic Analysis of Wind Energy Potential in Quetta, Baluchistan, Pakistan, Major Revision*
- Energy Strategy Reviews *Science Citation Index_Research Paper: Effective Evaluation of Renewable Energy Resources of a City by Utilizing Turkish Public Incentives and Supports at Maximum Extent, Major Revision*
- International Journal of Electrical Power and Energy Systems *Science Citation Index_Research Paper: An Improved Fault Current Limiting Circuit for VSC-HVDC Transmission System. Major Revision* 2019
- Journal of "Environmental Progress and Sustainable Energy *Science Citation Index_Research Paper: Evaluation of wind energy potential and electricity generation cost in the South of Hunan Province in China. Major Revision*
- IBA University Research Journal DOAJ Index *Research Paper: Techno-Economic Analysis of Solar Thermal Water Heaters in Pakistan. Major Revision*
- World Journal of Science, Technology and Sustainable Development *Emerging Sources Citation Index_Research Paper: Techno - economic assessment of wind power potential of Hawke's Bay using Weibull parameter: A review Major Revision*
- Journal of Emerging and Selected Topics in Power Electronics (IEEE) *Science Citation Index_Research Paper: Suitability of Line Commutated Inverter for grid integration of hybrid Wind - PV sources, Major Revision*
- Indian Journal of Science and Technology *Emerging Sources Citation Index Research Paper: Green computing: Optimize design of solar based power supply unit for IOT, Major Revision.*
- International Journal of Energy and Environment *Science Citation Index Expanded Research Paper: An apparent assessment of performance and availability of wind farm considering statistical data of wind farm "Major Revision.* 2018
 - International Journal of Sustainable Energy Planning and Management *Emerging Sources Citation Index_Research Paper: Optimal Dispatch of Wind Power and BESS Combined Power System under Low Carbon Economy "Major Revision.*
- Indian Journal of Science and Technology *Emerging Sources Citation Index_Research Paper: Geothermal Power Plant Installation in Pakistan Choice of location, inspecting its potential and utilization" Minor Revision*
- Indian Journal of Science and Technology *Emerging Sources Citation Index_Research Paper: Geothermal Power Plant Installation in Pakistan Choice of location, inspecting its potential and utilization" Minor Revision*
- International Journal of Electrical Power and Energy Systems *Science Citation Index_Research Paper: A real-time optimal coordination scheme for the voltage regulation of a distribution network including an OLTC, capacitor banks, and multiple distributed energy resources, Major Revision/Accepted.*
- Renewable Energy Focus Journal (Elsevier) *Scopus Index IEEE Energy Conversion Science Citation Index (Collaboration with Prof. Jie Wang)_Research Paper: Analysis of Maximum Mechanical and Electrical Power Trackers Used in Wind Energy Conversion Systems. Accepted with minor revision.*
- IEEE Control System *Science Citation Index (Collaboration with Prof. Jie Wang)_Research Paper: PI Control of Grid-Connected Photovoltaic System Based on Nonlinear Modeling and Input-to-State Stability: Analysis and Experimental Validation. Rejected*
- International Conference on New Energy and Future Energy System (NEFES 2016) *(Collaboration with Prof. Jie Wang)_Research Paper: Design of wide-area time-delay supplementary controller for Interconnected Network based on Hamilton Function Method. Minor comments*
- Journal of Emerging and Selected Topics in Power Electronics (IEEE) *Science Citation Index_Research Paper: A Novel Probabilistic Robust Coordinated Approach for Stabilization of Power Oscillations Considering DFIG-Based Wind Generation Systems. Minor comments* 2017
- Journal of Energy, Sustainability and Society *Emerging Sources Citation Index*
 - *Research Paper: Technical and economic assessment of wind power potential of*

Nooriabad, Pakistan, **Major revisions required.**

- ⊙ **Research Paper:** Optimal Placement and Sizing of Distributed Generators for Voltage-Dependent Load Model in Radial Distribution System, **Minor Revision/Accepted**
- **Electrical Power System Research Journal (Elsevier) _ Science Citation Index**
 - ⊙ **Research Paper:** Performance Analysis of Diode-bridge-type Non-Superconducting Fault Current Limiter in Improving Transient Stability of DFIG Based Variable Speed Wind Generator. **Minor Revision Accepted**
 - ⊙ **Research Paper:** Electric Vehicles in Automatic Generation Control for Systems with Large Integration of Variable Renewable Generation. **Revisions required.**
- **Renewable & Sustainable Energy Reviews Journal (Elsevier) _ Science Citation Index**
 - ⊙ **Research Paper:** Is biomass power a good choice for governments in China? **Minor Revisions Required/Accept**
- **Energy Reports Journal (Elsevier) _ Emerging Sources Citation Index**
 - ⊙ **Research Paper:** Economic Cost Evaluation on the Viability of Offshore Wind Turbine Farms in Nigeria. **Accepted.**
- **Journal of Power Technologies _ Emerging Sources Citation Index**
 - ⊙ **Research Paper:** Power, Energy and Cost Models of Multi-Rotor Wind Turbine. **Major revisions required**

Travel History

- Srilanka (2014, 2015, 2016), China (2014-1017), Kingdom of Thailand (2015 and 2019),
- Malaysia (2016 and 2018-2019), Oman (2022 to date)

Supervision/Co-Supervision (B.Eng. /M.Eng / PhD)

#	YEAR/BATCH	Student	Status	Title of M.E/MPhil Thesis	Research Paper Status
1	2018	Saindad	M.E Pass	Power Management of a Standalone Hybrid Energy System	Power Management of a Stand-Alone Hybrid wind/solar/Battery Energy System: An Experimental Investigation, International Journal of Advanced Computer Science and Applications, vol.9, Issue 6, June 2018.
2	2018	Musavier	M.E Pass	Modeling and Optimal Tracking Control for a Variable Speed Wind Energy Conversion System Application	Maximum Power Tracking System Based on Power Electronic Topology for Wind Energy Conversion System Applications, in International Journal of Engineering, Technology & Applied Science Research Journal, Vol. 8, No. 5, 2018, 3392-3397 .
3	2018	Mr. MajidAli Tunio	M.E Pass	Fabrication and performance analysis of solar tracking system by using bypass diodes and super-capacitor technology	Fabrication and Performance Analysis of Solar Tracking System by Using By-Pass Diodes and Super-Capacitor Technology, International Journal of Modern Research in Eng. & Management (IJMREM), Vol 2, Issue 01, 2019, 45-48.
4	2018	Baqir Ali	M.E Pass	Techno-Economical Analysis of Wind Power through Weibull Distribution Technique: Including a Technical Proposal for Power integration with National Grid	Wind Energy Potential Assessment and Mapping through Various Distribution Techniques: An Experimental Investigation for Wind Zone in International Journal on Energy Conversion, Vol 7, N0. 1, 2019.
5	2018	Ms Sidra	M.E Pass	Robust Control Design Performance Analysis of Wind Energy Conversion System Based on Induction Generator	LQR and Observer based controller design performance analysis of wind energy system based on induction generator, IJEET, Under review
6	2018	Tariq Ali	M.E Pass	Experimental Analysis and Control of Wind-Generator System Based on SCIG, PMSG through DC/DC Converter for Extremum Power Seeking	Experimental Analysis and Control of Wind-Generator System through DC-DC boost Converter for Extremum Seeking, International Journal of Engineering, Technology & Applied Science Research Journal.
7	2019	Bisharat	M.E Pass	Wind Power Analysis through Rayleigh Distribution Technique: A Case of Pakistan	Assessment of Wind Power Potential Based on Raleigh Distribution Model: An Experimental Investigation for Costal Zone, in International Journal of Engineering, Technology & Applied Science Research Journal, Vol. 9, No. 1, 2019, 3721-3725 (Web of Science).
8	2018	Zaheer Hussain	M.E Pass	Geothermal energy production by utilizing abandoned wells	Electricity Generation through Oil and Gas Wells at Kandhkot Gas Field: Powering to Local Communities, Sci. int. (Lahore), 32(1), 139-143, 2020, (Web of Science).
9	2019	GM	M.E Pass	An Experimental investigation & Control of integrated Power System based on PV-Wind Energy	An Experimental investigation & Control of Hybrid (PV-Wind) Energy Power System, International Journal of Engineering, Technology & Applied Science Research Journal, (Web of Science). Under review

10	2019	Rashid	Final waiting	Designing and Enhancing the Electric Vehicle Charging Station through Green Energy	
11	2019	Asad	M.E Pass	Design and Optimization of carport Canopies for Maximum Power Generation for Electric Vehicle Based on Solar System	Design and Optimization Analysis of Solar Carport Canopies with Maximum Power Generation for Electric Vehicles Charging, International Journal of Engineering, Technology & Applied Science Research Journal, (W
12	2019	Baqar shah	M.E Pass	Implementation of Half Bride (HB) Modular Multi-Level Inverter using nearest level modulation (NLM) technique up to X-Levels for Power Quality Analysis	Analysis of Harmonic Distortion Reduction through Modular Multi- Level Inverter using Nearest Level Modulation (NLM) Control Strategy IBA Sukkur Journal, Vol. 4, No. 1, pp.67-79 January – June 2021.
13	2019	Aqeel	M.E Pass	Comparative Analysis of Various PV Module and Grid Stability through various Tracking Algorithm: Powering to Local Communities	A Research On Various PV Arrays Manufacturing Data for Power Comparison and Optimization Through Extremum Seeking Technique, IBA Sukkur Journal, Vol. 4, No. 1, pp.59-66 January – June 2021.
14	2019	Ali Shanshah	M.E Pass	Integration of Fuel Cell & Permanent Magnet Synchronous Generator Based Wind Energy Conversion System for Optimal Power Supply	An Effective MPPT Controller for Power Optimization of PMSG Based Wind Turbine, IEEE, International Conference on Computing, Electronic and Electrical, 1-6, 2022.
15	2020	Kamran Ali	M.E Pass		
16	2019	Nazia Naz	M.E Pass	Investigation of Wind Characteristics Through Cumulative Distribution Functions and Economic Evaluation Using Cash Flow Model for Wind Power Applications	
17	2020	Halar Shaikh	Initial done		
18	2020	Imran Ali	M.E Pass	Parameters extraction of photovoltaic cells using swarm intelligence based optimization technique: research on single diode model and double diode model	Parameters extraction of photovoltaic cells using swarm intelligence based optimization technique: research on single diode model and double diode model, Mehran University Research Journal Of Engineering & Technology 42.2 (2023): 158-168.
19	2020	Ehtasam	F M.E Pass		
20	2019	19MEELP	M.E Pass		
21	2020	Mansoor Ahmad 17ELPHD	PhD Pass		Performance Improvement of Grid-Integrated Doubly Fed Induction Generator under Asymmetrical and Symmetrical Faults. <i>Energies</i> 2023, 16, 3350. https://doi.org/10.3390/en16083350
22	2022	Murtaza Memon	Initial done		
23	2022	Sanjha	Initial done		
24	2022	Gazala	Initial done		

References

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- Prof Abdul Qadir Chang Taught in B.E/M.E Mehran University of Engineering & Technology Jamshoro, Sindh Pakistan aqchang@gmail.com
- Prof Dr. Ali Asghar Memon Taught in B.E/M.E Mehran University of Engineering & Technology Jamshoro, Sindh Pakistan ali.asghar@faculty.muuet.edu.pk