

Sarmad Majeed Malik

Assistant Professor
College of Electrical & Mechanical Engineering

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About

Dr. Sarmad Majeed Malik is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Sarmad Majeed Malik has a PhD in Electric Power Systems And Automation. Dr. Sarmad Majeed Malik has published 23 research articles & conference papers having a citation count of 434, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Electric Power Systems And Automation North China Electric Power University , China	2015 - 2019
MS in Electirc Power Sys & Automation North China Electric Power University , China	2012 - 2014
BE in Electronics Engg) NUST, Islamabad , Pakistan	2008 - 2012

Experience

Assistant Professor College of Electrical & Mechanical Engineering	2024- Present
Assistant Professor College of Electrical & Mechanical Engineering	2023 - 2023
Assistant Professor College of Electrical & Mechanical Engineering	2020 - 2020
Assistant Professor College of Electrical & Mechanical Engineering	2020 - 2024
Assistant Professor College of Electrical & Mechanical Engineering	2019 - 2020
Lecturer College of Electrical & Mechanical Engineering	2014 - 2019
Lecturer NUST , CEME, NUST	2014 - 2015

Awards

Outstanding Student Outstanding student performance award for 2017-18 academic year during PhD at North China Electric Power University, Beijing, China	2018
Recipient of FDP 2015 Selected by NUST under Faculty Development Program (FDP) to pursue PhD in Electrical Power at North China Electric Power University, Beijing, China.	2015
Selected for MS by NUST Selected by NUST as one of the top students eligible to pursue MS in Electric Power Systems and Automation at North China Electric Power University, Beijing, China. The program was supported by MoU between NUST and NCEPU.	2012
China Scholarship Council Recipient of China Scholarship Council award for MS at North China Electric Power University, Beijing, China.	2012

Professional Memberships

PEC	Since 2014
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Research Projects

National Projects

Power Management and Control of Renewable Penetrated Hybrid Microgrids
Funding Agency: North China Electric Power University (NCEPU), Beijing, China
Amount: PKR 1,200,000.00
Status: Completed

2021

International Projects

Research Articles

An Artificial Neural Network Based MPPT Control of Modified Flyback Converter for PV Systems in Active Buildings
Sarmad Majeed Malik Saddam Gul Yingyun Sun Faisal Alsaif
Energy Reports , Volume 12, Pages 2865-2872
Impact Factor: 4.700 | **Quartile:** 2 | **Citations:** 12
DOI: <https://doi.org/10.1016/j.egyr.2024.08.082>

2024

Scenario Reduction Network Based on Wasserstein Distance with Regularization
Sarmad Majeed Malik Xiaochong Dong Yingyun Sun Tianjiao Pu Ye Li Xinying Wang
IEEE Transactions on Power Systems, Volume: 39, Issue: 1, Pages: 4-13
Impact Factor: 6.6 | **Quartile:** 1 | **Citations:** 13
DOI: 10.1109/TPWRS.2023.3234277

2024

An adaptive virtual capacitive droop for hybrid energy storage system in DC microgrid
Sarmad Majeed Malik Yingyun Sun Junjie Hu
Journal of Energy Storage , Volume 70, Article Number 107809
Impact Factor: 9.4 | **Quartile:** 1 | **Citations:** 17
DOI: <https://doi.org/10.1016/j.est.2023.107809>

2023

Backstepping based real twisting sliding mode control for photovoltaic system
Sarmad Majeed Malik Mansoor Asif Muhammad Numan Sahid Ullah Yingyun Sun Junjie Hu Muhammad Kamran Bodla
Frontiers in Energy Research, Volume 10, Article Number :1087593
Impact Factor: 3.858 | **Quartile:** 3 | **Citations:** 1
DOI: 10.3389/fenrg.2022.1087593

2023

Impact of Dynamic Thermal Rating on optimal siting and sizing of energy storage systems under Renewable Portfolio Standards requirements
Muhammad Numan Mansoor Asif Muhammad Waseem Khan Sarmad Majeed Malik Fakhar Uddin Khilji
Sustainable Energy, Grids and Networks, Volume 32, Article Number 100881
Impact Factor: 5.405 | **Quartile:** 1 | **Citations:** 13
DOI: <https://doi.org/10.1016/j.segan.2022.100881>

2022

A novel solid state transformer based control topology for interconnected MV and LV hybrid microgrids
Sarmad Majeed Malik Yingyun Sun Junjie Hu
Energy Reports , Volume 8, Pages 10385-10394
Impact Factor: 4.937 | **Quartile:** 2 | **Citations:** 5
DOI: <https://doi.org/10.1016/j.egyr.2022.08.175>

2022

Exploiting the Inherent Flexibility in Transmission Network for Optimal Scheduling, Wind Power Utilization, and Network Congestion Management
Akif Zia Khan Kashif Imran Muhammad Numan Mansoor Asif Sarmad Majeed Malik
IEEE Access , Volume 9, Pages 88746-88758
Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 22
DOI: 10.1109/ACCESS.2021.3090089

2021

A state of charge-based linearised frequency–voltage droop for interlinking converters in an isolated hybrid microgrid
Sarmad Majeed Malik Yingyun Sun
IET Renewable Power Generation , Volume 15, Issue 2, Pages 354-367

2021

Impact Factor: 3.034 Quartile: 4 Citations: 10 DOI: https://doi.org/10.1049/rpg2.12028	
Integrated Demand Response Characteristics of Industrial Park: a Review <i>Zhengqi Chen Yingyun Sun Xin Ai Sarmad Majeed Malik Liping Yang</i> <i>Journal of Modern Power Systems and Clean Energy</i> , Volume 8, Issue 1, Pages 15-26 Impact Factor: 3.090 Quartile: 2 Citations: 70 DOI: 10.35833/MPCE.2018.000776	2019
Small-Signal Analysis of a Hybrid Microgrid With High PV Penetration <i>Sarmad Majeed Malik Yingyun Sun Xin Ai Zhengqi Chen Kunyu Wang</i> <i>IEEE Access</i> , Volume 7, pp 119631-119643 Impact Factor: 3.745 Quartile: 1 Citations: 14 DOI: 10.1109/ACCESS.2019.2937123	2019
Cost-Based Droop Scheme for Converters in Interconnected Hybrid Microgrids <i>Sarmad Majeed Malik Yingyun Sun Xin Ai Zhengqi Chen Kunyu Wang</i> <i>IEEE Access</i> , Volume 7, Pages 82266-82276 Impact Factor: 3.745 Quartile: 1 Citations: 16 DOI: 10.1109/ACCESS.2019.2923600	2019
Unified method for optimal power flow of AC/DC system with PET based on extended branch model <i>Yingyun Sun Liping Hu Sarmad Majeed Malik Naishi Chen Tianjiao Pu</i> <i>The Journal of Engineering</i> , Volume 2019, Issue 16, Page 1942 - 1946 Impact Factor: 0 DOI: 10.1049/joe.2018.8707	2019
A Generalized Droop Strategy for Interlinking Converter in a Standalone Hybrid Microgrid <i>Sarmad Majeed Malik Yingyun Sun Wen Huang Xin Ai Zhikang Shuai</i> <i>Applied Energy</i> , Volume 226, Pages 1056-1063 Impact Factor: 8.426 Quartile: 1 Citations: 49 DOI: 10.1016/j.apenergy.2018.06.002	2018
Voltage and frequency control strategies of hybrid AC/DC microgrid: a review <i>Sarmad Majeed Malik Xin Ai Chen Zhengqi Zhou Shupeng Yingyun Sun</i> <i>IET Generation Transmission & Distribution</i> , Volume 11, Issue 2, Pages 303-313 Impact Factor: 2.618 Quartile: 2 Citations: 192 DOI: 10.1049/iet-gtd.2016.0791	2017

- Voltage-Frequency Droop Scheme for Standalone Hybrid Microgrids** 2019
Sarmad Majeed Malik Yingyun Sun Xin Ai Chen Zhengqi Jamshed A Ansari
2019 2nd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)
Citations: N/A
DOI: 10.1109/ICOMET.2019.8673528
- Droop-based Converter Scheme for Linking Multiple Hybrid Microgrids** 2019
Sarmad Majeed Malik Yingyun Sun Xin Ai Chen Zhengqi Jamshed A Ansari
2019 2nd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)
Citations: N/A
DOI: 10.1109/ICOMET.2019.8673415
- A Small Isolated Power System SCUC Model with State-Controllable Wind Power** 2016
Ruomeng Jiang Sarmad Majeed Malik Yingyun Sun Jianliang Zhong
2016 3rd International Conference on Information Science and Control Engineering (ICISCE), res.country(48,)
Citations: N/A
DOI: 10.1109/ICISCE.2016.174
- Logistic regression and feature extraction based fault diagnosis of main bearing of wind turbines** 2016
Muhammad Kamran Bodla Sarmad Majeed Malik Muhammad Tahir Rasheed Muhammad Numan Muhammad Zeeshan Ali Jimmy Baimba Brima
2016 IEEE 11th Conference on Industrial Electronics and Applications (ICIEA), res.country(48,)
Citations: N/A
DOI: 10.1109/ICIEA.2016.7603846
- Effect of PI Controller on Efficiency of Dynamic Voltage Restorer for Compensation of Voltage Quality Problems** 2014
Muhammad Taha Ali Farukh Abbas Akif Nadeem Muhammad Yaqoob Sarmad M. Malik M. Javed Iqbal
2014 16th International Power Electronics and Motion Control Conference and Exposition, res.country(224,)
Citations: N/A
DOI: 10.1109/EPEPMC.2014.6980663
- Automated over speeding detection and reporting system** 2014
Sarmad Majeed Malik M. Asad Iqbal Zohaib Hassan Tauseef Tauqeer Rehan Hafiz Usman Nasir
2014 16th International Power Electronics and Motion Control Conference and Exposition, res.country(224,)
Citations: N/A
DOI: 10.1109/EPEPMC.2014.6980657
- A Wind Forecast Error Cost Included OPF Model and Its Fast Algorithm** 2014
Yingyun Sun Yue Guo Rui Mao Sarmad Majeed Malik
2014 IEEE PES General Meeting | Conference & Exposition, res.country(233,)
Citations: N/A
DOI: 10.1109/PESGM.2014.6938928
- Implementation of Intelligent AGC in PSAT for Optimal Use in Smart Grids** 2014
Sarmad Majeed Malik Sun Yingyun Akif Zia Khan
2014 IEEE International Conference on Intelligent Energy and Power Systems (IEPS), res.country(229,)
Citations: N/A
DOI: 10.1109/IEPS.2014.6874176
- Automatic Number Plate Recognition Based on Connected Components Analysis Technique** 2014
Sarmad Majeed Malik Rehan Hafiz
2nd International Conference on Emerging Trends in Engineering and Technology (ICETET'2014), res.country(231,)
Citations: N/A
DOI:
https://www.researchgate.net/publication/282604618_Automatic_Number_Plate_Recognition_Based_on_Connected_Components_Analysis_Technique

Editorial Activities

Frontiers in Energy Research Reviewed Papers for Journals Impact Factor: 3.858	2022
Electric Power Systems Research Reviewed Papers for Journals Impact Factor: 3.818	2022
Reviewed Papers for Journals Impact Factor: 4.469	2022