

Khawaja Khalid Mehmood

Assistant Professor

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About

Dr. Khawaja Khalid Mehmood is working as Assistant Professor in the US-Pakistan Center for Advanced Studies in Energy. Dr. Khawaja Khalid Mehmood has a PhD in Power System Planning. Dr. Khawaja Khalid Mehmood has published 17 research articles & conference papers having a citation count of 833, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Power System Planning	2013 - 2019
Sung Kyun Kwan University , Pakistan	

Experience

Assistant Professor	2020- Present
US-Pakistan Center for Advanced Studies in Energy	

Assistant Professor	2019 - 2020
US-Pakistan Center for Advanced Studies in Energy	

Assistant Professor	2019 - 2019
Centre for Energy System	

- Present

Research Articles

Modified rotor-side converter control design for improving the LVRT capability of a DFIG-based WECS	2020
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Muhammad Arif Sharafat Ali Khawaja Khalid Mehmood Shazia Baloch Chul-Hwan Kim

Electric Power Systems Research, Volume 186, Article Number 106403

Impact Factor: 3.414 | Quartile: 2 | Citations: 53

DOI: <https://doi.org/10.1016/j.epsr.2020.106403>

Microgrid Protection Strategy Based on the Autocorrelation of Current Envelopes Using the Squaring and Low-Pass Filtering Method	2020
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Shazia Baloch Saeed Zaman Jamali Muhammad Saeed Uz Zaman Arif Hussian Chul-Hwan Kim Shazia Baloch Saeed Zaman Jamali Khawaja Khalid

Mehmood Syed Basit Ali Bukhari Muhammad Saeed Uz Zaman Arif Hussian Chul-Hwan Kim

Energies, Volume 13, Issue 9, Article Number 2350

Impact Factor: 3.004 | Quartile: 3 | Citations: 14

DOI: <https://doi.org/10.3390/en13092350>

Convolutional neural network-based intelligent protection strategy for microgrids	2020
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Syed Basit Ali Bukhari Chul-Hwan Kim Khawaja Khalid Mehmood Raza Haider Muhammad Saeed Uz Zaman

IET Generation, Transmission & Distribution, Pages 1-9

Impact Factor: 3.229 | Quartile: 2 | Citations: 65

DOI: [10.1049/iet-gtd.2018.7049](https://doi.org/10.1049/iet-gtd.2018.7049)

Wind-Speed Estimation and Sensorless Control for SPMSG-Based WECS Using LMI-Based SMC	2020
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Muhammad Arif Sharafat Ali Khawaja Khalid Mehmood Shazia Baloch Chul-Hwan Kim

IEEE Access, Volume 8, Pages 26524-26535

Impact Factor: 3.367 | Quartile: 2 | Citations: 20

DOI: [10.1109/ACCESS.2020.2971721](https://doi.org/10.1109/ACCESS.2020.2971721)

Intelligent Fault Classification and Location Identification Method for Microgrids Using Discrete Orthonormal Stockwell Transform-Based Optimized Multi-Kernel Extreme Learning Machine	2019
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<i>Teke Gush Khawaja Khalid Mehmood Samuel Admasie Ji-Soo Kim Chul-Hwan Kim Syed Basit Ali Bukhari</i> <i>Energies</i> , Volume 12(23), Article Number 4504 Impact Factor: 2.702 Quartile: 3 Citations: 37 DOI: 10.3390/en12234504	
Full operational regimes for SPMSG-based WECS using generation of active current references <i>Muhammad Arif Sharafat Ali Khawaja Khalid Mehmood Chul-Hwan Kim</i> <i>International Journal of Electrical Power and Energy Systems</i>, Volume: 112 Pages: 428-441 Impact Factor: 3.588 Quartile: 1 Citations: 13 DOI: 10.1016/j.ijepes.2019.05.028	2019
An Intelligent Hybrid Energy Management System for a Smart House Considering Bidirectional Power Flow and Various EV Charging Techniques <i>Khawaja Khalid Mehmood Muhammad Kashif Rafique Saad Ullah Khan Muhammad Saeed Uz Zaman Zunaib Maqsood Haider Syed Basit Ali Bukhari Chul-Hwan Kim</i> <i>Applied Sciences</i> , Volume 9, Issue 8, Page 1658 Impact Factor: 2.474 Quartile: 2 Citations: 26 DOI: 10.3390/app9081658	2019
A High-Speed Fault Detection, Identification and Isolation Method for a Last Mile Radial LVDC Distribution Network <i>Khawaja Khalid Mehmood Saeed Zaman Jamali Syed Basit Ali Bukhari Muhammad Omer Khan Muhammad Mehdi Chul-Ho Noh Chul-Hwan Kim</i> <i>Energies</i> , Volume 11, Issue 11, Article Number 2901 Impact Factor: 2.707 Quartile: 3 Citations: 10 DOI: 10.3390/en11112901	2018
Unified Planning of Wind Generators and Switched Capacitor Banks: A Multiagent Clustering-Based Distributed Approach <i>Khawaja Khalid Mehmood Saad Ullah Khan Zunaib Maqsood Haider Chul-Hwan Kim</i> <i>IEEE Transactions on Power Systems</i>, Volume 33, Issue 6, Pages 6978-6988 Impact Factor: 6.807 Quartile: 1 Citations: 36 DOI: 10.1109/TPWRS.2018.2854916	2018
Optimal Scheduling of Hybrid Energy Resources for a Smart Home <i>Khawaja Khalid Mehmood Muhammad Kashif Rafique Zunaib Maqsood Haider Muhammad Saeed Uz Zaman Muhammad Irfan Saad Ullah Khan Chul-Hwan Kim</i> <i>Energies</i> , Volume 11, Issue 11, Article Number 3201 Impact Factor: 2.707 Quartile: 3 Citations: 19 DOI: 10.3390/en11113201	2018
A Bi-Level EV Aggregator Coordination Scheme for Load Variance Minimization with Renewable Energy Penetration Adaptability <i>Khawaja Khalid Mehmood Saad Ullah Khan Zunaib Maqsood Haider Muhammad Kashif Rafique Chul-Hwan Kim</i> <i>Energies</i> , Volume 11, Issue 10, Page 2809 Impact Factor: 2.707 Quartile: 3 Citations: 27 DOI: 10.3390/en11102809	2018
Energy Management Scheme for an EV Smart Charger V2G/G2V Application with an EV Power Allocation Technique and Voltage Regulation <i>Khawaja Khalid Mehmood Saad Ullah Khan Zunaib Maqsood Haider Syed Basit Ali Bukhari Soon-Jeong LEE Muhammad Kashif Rafique Chul-Hwan Kim</i> <i>Applied Sciences</i> , Volume 8, Issue 4, Article Number 648 Impact Factor: 2.217 Quartile: 2 Citations: 55 DOI: 10.3390/app8040648	2018
A real-time optimal coordination scheme for the voltage regulation of a distribution network including an OLTC, capacitor banks, and multiple distributed energy resources <i>Khawaja Khalid Mehmood Saad Ullah Khan Soon-Jeong Lee Zunaib Maqsood Haider Muhammad Kashif Rafique Chul-Hwan Kim</i> <i>International Journal of Electrical Power and Energy Systems</i>, Volume 94, Pages 1-14 Impact Factor: 4.418 Quartile: 1 Citations: 98 DOI: 10.1016/j.ijepes.2017.06.024	2018
Water-filling algorithm based approach for management of responsive residential loads <i>Khawaja Khalid Mehmood Zunaib Maqsood HAIDER Muhammad Kashif RAFIQUE Saad Ullah KHAN Soon-Jeong LEE Chul-Hwan KIM</i> <i>Journal of Modern Power Systems and Clean Energy</i>, Volume 6, Issue 1, Pages 118-131 Impact Factor: 2.848 Quartile: 2 Citations: 28	2018

DOI: 10.1007/s40565-017-0340-x

Power System Stability Improvement through the Coordination of TCPS-based Damping Controller and Power System Stabilizer

2017

Khawaja Khalid Mehmood Muhammad Arif Sharafat Ali Chul-Hwan Kim

Advances in Electrical and Computer Engineering, Volume 17, Issue 4, Pages 27-36

Impact Factor: 0.699 | **Quartile:** 4 | **Citations:** 10

DOI: 10.4316/AECE.2017.04004

Optimal sizing and allocation of battery energy storage systems with wind and solar power DGs in a distribution network for voltage regulation considering the lifespan of batteries

2017

Saad Ullah Khan Soon-Jeong Lee Zunaib Maqsood Haider Muhammad Kashif Rafique Chul-Hwan Kim Khawaja Khalid Mehmood

IET Renewable Power Generation, Volume 11, Issue 10, Pages 1305-1315, Special Issue SI

Impact Factor: 2.6 | **Quartile:** 1 | **Citations:** 141

DOI: 10.1049/iet-rpg.2016.0938

Coordinated Control Algorithm for Distributed Battery Energy Storage Systems for Mitigating Voltage and Frequency Deviations

2016

Soon-Jeong Lee Jun-Hyeok Kim Chul-Hwan Kim Seul-Ki Kim Eung-Sang Kim, Doo-Ung Kim Saad Ullah Khan Khawaja Khalid Mehmood

IEEE Transactions on Smart Grid, Volume 7, Issue 3, Pages 1713-1722

Impact Factor: 6.645 | **Quartile:** 1 | **Citations:** 181

DOI: 10.1109/TSG.2015.2429919