

Kamran Zeb
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School of Electrical Engineering and Computer Science
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About

Dr. Kamran Zeb is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Kamran Zeb has a PhD in Power And Control, Renewable Energies, Electric Drives. Dr. Kamran Zeb has published 57 research articles & conference papers having a citation count of 1778, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Power And Control, Renewable Energies, Electric Drives Pusan National University , Korea	2017 - 2020
MS in Electrical Engineering COMSATS Institute of Information Technology , Pakistan	2014 - 2016
BSc in Electrical Engineering COMSATS, Abbottabad , Pakistan	2008 - 2013

Experience

Assistant Professor School of Electrical Engineering and Computer Science	2024- Present
Assistant Professor School of Electrical Engineering and Computer Science	2023 - 2024
Assistant Professor School of Electrical Engineering and Computer Science	2022 - 2023
Assistant Professor School of Electrical Engineering and Computer Science	2022 - 2020
Assistant Professor School of Electrical Engineering and Computer Science	2020 - 2022
Lecturer University of Management & Technology Sialkot Campus, Pakistan , University of Management & Technology Lahore (Sialkot Campus), Pakistan	2016 - 2017
Lecturer COMWAVE Institute of Science & Information Technology, Pakistan , COMWAVE Institute of Science & Information Technology (Abbottabad), Pakistan	2015 - 2016
Trainee Electrical Engineer A.G.E Cables & PESCO & WAPDA , A.G.E Cables & PESCO & WAPDA	2013 - 2013

Awards

Best Paper Award IEEE 2019 15th International Conference on Emerging Technologies (ICET) Best paper award for "DC-link Voltage Regulation of Single-Phase Grid- Tied PV System using Fuzzy-PI Controller"	2019
Prime Minister Reimbursem Prime Minister Reimbursement Scholarship Holder COMSATS Abbottabad	2016
3rd Position 3rd Position in National Academy of Young Scientist Innovative	2014

Professional Memberships

PEC	Since 2013
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Research Projects

National Projects

Pakistan's First Indigenous Level 2 Electric Vehicle Charger Funding Agency: NUST Amount: PKR 1,250,000.00 Status: Approved_inprocess	2022
Validation of Model-Free Intelligent Controllers for Robotic Arms and Renewable Systems Funding Agency: DAAD and SEED Grant (NUST) Amount: PKR 10,094,391.00 Status: Approved_inprocess	2022
Adaptive Controller Design and Validation of Electric Vehicle Charger Funding Agency: NUST Amount: PKR 1,000,000.00 Status: Approved_inprocess	2022
Design of Hybrid Power Management Unit for the operation of Point Machine System in Pakistan Railway for efficient traffic control Funding Agency: HEC NRPU Amount: PKR 3,534,300.00 Status: Approved_inprocess	2022

International Projects

Research Articles

Decentralized multi-agent control for optimal energy management of neighborhood based hybrid microgrids in real-time networking <i>Moatasim Billah Kamran Zeb Waqar Uddin Muhammad Imran Khaled S. Alatawi Fahad M. Almasoudi Muhammad Khalid Results in Engineering</i> , Volume:27, Article Number 106337 Impact Factor: 7.900 Quartile: 1 DOI: https://doi.org/10.1016/j.rineng.2025.106337	2025
Lyapunov-Based Novel Integral Backstepping and Integral Sliding Mode Controllers Design for Efficient Voltage Regulation of Resilient DC Microgrid <i>Fozia feroze Awan Kamran Zeb Waqar Uddin Muhammad Imran Muhammad Khalid Zahid Ullah International Journal of Energy Research</i> , Pages 1-16 Impact Factor: 4.300 Quartile: 1 DOI: https://doi.org/10.1155/er/8849426	2025
Control Schemes for Quadrotor UAV: Taxonomy and Survey <i>Adnan Khalid Zohaib Mushtaq Saad Arif Kamran Zeb M. Attique Khan Sambit Bakshi ACM Computing Surveys</i> , Volume 56, Issue 5, Article No. 124, Pages 1–32 Impact Factor: 16.6 Quartile: 1 Citations: 20 DOI: https://doi.org/10.1145/3617652	2023
Optimizing Distributed Generation Placement and Sizing in Distribution Systems: A Multi-Objective Analysis of Power Losses, Reliability, and Operational Constraints <i>Izhar Us Salam Muhammad Yousif Muhammad Numan Kamran Zeb Moatasim Billah Energies</i> , Volume 16, Issue 16, Article Number 5907 Impact Factor: 3.2 Quartile: 3 Citations: 24 DOI: 10.3390/en16165907	2023
A New Cloud-Based IoT Solution for Soiling Ratio Measurement of PV Systems Using Artificial Neural Network <i>Mussawir Ul Mehmood Abasin Ulasyar Waleed Ali Kamran Zeb Haris Sheh Zad Waqar Uddin Hee Je Kim Energies</i> , Volume 16(2), Article Number 996 Impact Factor: 3.252 Quartile: 3 Citations: 19 DOI: doi.org/10.3390/en16020996	2023

A Novel Distributed Consensus-Based Approach to Solve the Economic Dispatch Problem Incorporating the Valve-Point Effect and Solar Energy Sources <i>Muhammad Moin Waqas Ahmed Muhammad Rehan Muhammad Iqbal Nasim Ullah Kamran Zeb Waqar Uddin</i> <i>Energies</i> , Volume 16, Issue 1, Article Number 447 Impact Factor: 3.252 Quartile: 3 Citations: 4 DOI: https://doi.org/10.3390/en16010447	2022
Design and Control of a Quasi-Z Source Multilevel Inverter Using a New Reaching Law-Based Sliding Mode Control <i>Muhammad Awais Rafiq Abasin Ulasyar Waqar Uddin Haris Sheh Zad Abraiz Khattak Kamran Zeb</i> <i>Energies</i> , Volume 15, Issue 21, Article Number 8002 Impact Factor: 3.252 Quartile: 3 Citations: 7 DOI: https://doi.org/10.3390/en15218002	2022
Design of Robust Fuzzy Logic Controller Based on Gradient Descent Algorithm with Parallel-Resonance Type Fault Current Limiter for Grid-Tied PV System <i>Saif Ul Islam Kamran Zeb Soobae Kim</i> <i>Sustainability</i> , Volume 14, Issue 19, Article Number 12251 Impact Factor: 3.889 Quartile: 2 Citations: 4 DOI: https://doi.org/10.3390/su141912251	2022
High-performance and Multi-functional Control of Transformerless Single-phase Smart Inverter for Grid-connected PV System <i>Kamran Zeb Saif Ul Islam Waqar Uddin Imran Khan Muhammad Ishfaq Tiago Davi Curi Busarello Hee-Je Kim</i> <i>Journal of Modern Power Systems and Clean Energy</i> , Volume 9, No. 6, Pages 1386-1394 Impact Factor: 3.265 Quartile: 2 Citations: 16 DOI: https://doi.org/10.35833/MPCE.2019.000331	2021
Control Strategy Based on Arm-Level Control for Output and Circulating Current of MMC in Stationary Reference Frame <i>Waqar Uddin Tiago D. C. Busarello Kamran Zeb Muhammad Adil Khan Anil Kumar Yedluri Hee-Je Kim</i> <i>Energies</i> , Volume 14(14), Article Number 4160 Impact Factor: 3.252 Quartile: 3 Citations: 7 DOI: https://doi.org/10.3390/en14144160	2021
Control of Transformerless Inverter-Based Two-Stage Grid-Connected Photovoltaic System Using Adaptive-PI and Adaptive Sliding Mode Controllers <i>Waqar Uddin Hee-Je Kim Kamran Zeb Muhamamd Saqib Nazir Iftikhar Ahmad</i> <i>Energies</i> , Volume 14(9), Article Number 2546 Impact Factor: 3.252 Quartile: 3 Citations: 14 DOI: https://doi.org/10.3390/en14092546	2021
Boosting the energy density of highly efficient flexible hybrid supercapacitors via selective integration of hierarchical nanostructured energy materials <i>Yedluri Anil Kumar Sangaraju Sambasivam Shamim Ahmed Hira Kamran Zeb Waqar Uddin T. N.V. Krishna K. D. Kumar Ihab M. Obaida Hee-Je Kim</i> <i>Electrochimica Acta</i> , Volume 364, Article Number 137318 Impact Factor: 6.901 Quartile: 2 Citations: 62 DOI: https://doi.org/10.1016/j.electacta.2020.137318	2020
Highly efficient copper-cobalt sulfide nano-reeds array with simplistic fabrication strategy for battery-type supercapacitors <i>Jong-Hee Yoon Yedluri Anil Kumar Sangaraju Sambasivam Shamim Ahmed Hira T. N.V. Krishna Kamran Zeb Waqar Uddin K. D. Kumar Ihab M. Obaida Sungshin Kim Hee-Je Kim</i> <i>Journal of Energy Storage</i> , Volume 32, Article Number 101988 Impact Factor: 6.583 Quartile: 1 Citations: 145 DOI: https://doi.org/10.1016/j.est.2020.101988	2020
CoCu2O4 nanoflowers architecture as an electrode material for battery type supercapacitor with improved electrochemical performance <i>Young-Seok Lee Yedluri Anil Kumar Sangaraju Sambasivam Shamim Ahmed Hira Kamran Zeb Waqar Uddin P.R. Sekhar Reddy Kulurumotlakatla Dasha Kumar Ihab M. Obaidat Hee-Je Kim Sungshin Kim</i> <i>Nano-Structures & Nano-Objects</i> , Volume 24, Article Number 100618 Impact Factor: N/A Citations: 40 DOI: https://doi.org/10.1016/j.nanoso.2020.100618	2020

<p>Highly Accurate Digital Current Controllers for Single-Phase LCL-Filtered Grid-Connected Inverters</p> <p><i>Tiago Davi Curi Busarello Kamran Zeb Marcelo Godoy Simões</i></p> <p><i>Electricity</i> , Volume 1(1), Pages 12-36</p> <p>Impact Factor: N/A Citations: 14</p> <p>DOI: https://doi.org/10.3390/electricity1010002</p>	2020
<p>Design of Super Twisting Sliding Mode Controller for a Three-Phase Grid-connected Photovoltaic System under Normal and Abnormal Conditions</p> <p><i>Kamran Zeb Tiago Davi Curi Busarello Saif Ul Islam Waqar Uddin Kummara Venkata Guru Raghavendra Muhammad Adil Khan Hee-Je Kim</i></p> <p><i>Energies</i> , Volume 13(15), Article Number 3773</p> <p>Impact Factor: 3.004 Quartile: 3 Citations: 30</p> <p>DOI: https://doi.org/10.3390/en13153773</p>	2020
<p>Design of Sliding Mode Controller based on SuperTwisting Algorithm for the three-phase grid-connected PV system under normal and abnormal conditions</p> <p><i>Kamran Zeb Hee-Je Kim Tiago Davi Curi Busarello Saif Ul Islam Waqar Uddin Kummara Venkata Guru Raghavendra Muhammad Adil Khan</i></p> <p><i>Energies</i> , Volume 13(15), Article Number 3773</p> <p>Impact Factor: 3.004 Quartile: 3 Citations: 30</p> <p>DOI: https://doi.org/10.3390/en13153773</p>	2020
<p>A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques</p> <p><i>Hee-Je Kim T. N.V. Krishna Kamran Zeb Vinodh Rajangam Chandu V. V. Muralee Gopi Sangaraju Sambasivam K. V. G. Raghavendra Ihab M. Obaidat</i></p> <p><i>Electronics</i> , Volume 9(7), Article Number 1161</p> <p>Impact Factor: 2.397 Quartile: 3 Citations: 161</p> <p>DOI: https://doi.org/10.3390/electronics9071161</p>	2020
<p>A Comprehensive Review of DC–DC Converter Topologies and Modulation Strategies with Recent Advances in Solar Photovoltaic Systems</p> <p><i>Kummara Venkat Guru Raghavendra Kamran Zeb Anand Muthusamy T. N. V. Krishna S. V. S. V Prabhudeva Kumar Do-Hyun Kim Min-Soo Kim Hwan-Gyu Cho Hee-Je Kim</i></p> <p><i>Electronics</i> , Volume 9(1), Article Number 31</p> <p>Impact Factor: 2.412 Quartile: 2 Citations: 154</p> <p>DOI: https://doi.org/10.3390/electronics9010031</p>	2019
<p>Control of output and circulating current of modular multilevel converter using a sliding mode approach</p> <p><i>Kamran Zeb Waqar Uddin Muhammad Adil Khan Muhammad Ishfaq Imran Khan Saif ul Islam Hee-Je Kim Gwan Soo Park Cheewoo Lee</i></p> <p><i>Energies</i> , Volume 12, Issue 21, Article Number 4084</p> <p>Impact Factor: 2.702 Quartile: 3 Citations: 33</p> <p>DOI: https://doi.org/10.3390/en12214084</p>	2019
<p>A Neural Network-Based Model Reference Control Architecture for Oscillation Damping in Interconnected Power System</p> <p><i>Waqar Uddin Nadia Zeb Kamran Zeb Muhammad Ishfaq Imran Khan Saif Ul Islam Ayesha Tanoli Aun Haider Hee-Je Kim Gwan-Soo Park</i></p> <p><i>Energies</i> , Volume 12, Issue 19, Article Number 3653</p> <p>Impact Factor: 2.702 Quartile: 3 Citations: 4</p> <p>DOI: DOI: 10.3390/en12193653</p>	2019
<p>Design of Fuzzy-PI and Fuzzy-Sliding Mode Controllers for Single-Phase Two-Stages Grid-Connected Transformerless Photovoltaic Inverter</p> <p><i>Kamran Zeb Saif ul Islam Waqar Ud Din Imran Khan Muhammad Ishfaq Tiago Davi Curi Busarello Hee Je kim Iftikhar Ahmad</i></p> <p><i>Electronics</i> , Volume: 8, Issue: 5, Article Number: 520</p> <p>Impact Factor: 2.412 Quartile: 2 Citations: 68</p> <p>DOI: 10.3390/electronics8050520</p>	2019
<p>Design of Robust Fuzzy Logic Controller Based on the Levenberg Marquardt Algorithm and Fault Ride Trough Strategies for a Grid-Connected PV System</p> <p><i>Saif Ul Islam Kamran Zeb Waqar Ud Din Imran Khan Muhammad Ishfaq Altaf Hussain Tiago Davi Curi Busarello Hee Je Kim</i></p> <p><i>Electronics</i> , Volume: 8, Issue: 4, Article Number: 429</p> <p>Impact Factor: 2.412 Quartile: 2 Citations: 19</p> <p>DOI: DOI: 10.3390/electronics8040429</p>	2019
<p>Control of internal dynamics of grid-connected modular multilevel converter using an integral backstepping controller</p> <p><i>Waqar Ud Din Kamran Zeb Muhammad Ishfaq Saif Ul Islam Imran Khan Hee Je Kim</i></p>	2019

Electronics , Volume: 8, Issue: 4, Article Number: 456

Impact Factor: 2.412 | **Quartile:** 2 | **Citations:** 12

DOI: 10.3390/electronics8040456

Current and future prospects of small hydro power in Pakistan: A survey

2019

Waqar Uddin Ayesha Kamran Zeb Aun Haider Bilal Khan Saif ul Islam M. Ishfaq Imran Khan M. Adild Hee Je Kim

Energy Strategy Reviews , Volume 24, Pages 166-177

Impact Factor: 3.895 | **Quartile:** 2 | **Citations:** 56

DOI: DOI: 10.1016/j.esr.2019.03.002

A New Adaptive Approach to Control Circulating and Output Current of Modular Multilevel Converter

2019

Muhammad Ishfaq Waqar Uddin Kamran Zeb Imran Khan Saif Ul Islam Muhammad Adil Khan Hee Je Kim

Energies , Volume 12(6), Article Number 1118

Impact Factor: 2.702 | **Quartile:** 3 | **Citations:** 20

DOI: <https://doi.org/10.3390/en12061118>

Dynamic Modeling and Robust Controllers Design for Doubly Fed Induction Generator-Based Wind Turbines under Unbalanced Grid Fault Conditions

2019

Imran Khan Kamran Zeb Waqar-ud-Din Saif Ul Islam Muhammad Ishfaq Saddam Hussain Hee-Je Kim

Energies , Volume 12, Issue 3, Article Number: 454

Impact Factor: 2.702 | **Quartile:** 3 | **Citations:** 28

DOI: DOI: 10.3390/en12030454

Design of a Proportional Resonant Controller with Resonant Harmonic Compensator and Fault Ride Trough Strategies for a Grid-Connected Photovoltaic System

2018

Saif Ul Islam Kamran Zeb Waqar Ud Din Imran Khan Muhammad Ishfaq Tiago Davi Curi Busarello Hee Je Kim

Electronics , Volume:7, Issue:12, Article Number: 451

Impact Factor: 1.764 | **Quartile:** 3 | **Citations:** 35

DOI: DOI:10.3390/electronics7120451

A comprehensive review on inverter topologies and control strategies for grid connected photovoltaic system

2018

Kamran Zeb Waqar Uddin Muhammad Adil Khan Zunaib Ali Muhammad Umair Ali Nicholas Christofides H.J. Kim

Renewable and Sustainable Energy Reviews , Volume 94, Pages 1120-1141

Impact Factor: 10.556 | **Quartile:** 1 | **Citations:** 260

DOI: <https://doi.org/10.1016/j.rser.2018.06.053>

Dynamic simulations of adaptive design approaches to control the speed of an induction machine considering parameter uncertainties and external perturbations

2018

Kamran Zeb Waqar U. Din Muhammad Adil Khan Ayesha Khan Umair Younas Tiago Davi Curi Busarello Hee Je Kim

Energies , Volume 11, Issue 9, Article Number: 2338

Impact Factor: 2.707 | **Quartile:** 3 | **Citations:** 17

DOI: <https://doi.org/10.3390/en11092339>

Design of a Building-Integrated Photovoltaic System with a Novel Bi-Reflector PV System (BRPVS) and Optimal Control Mechanism: An Experimental Study

2018

Muhammad Adil Khan Kamran Zeb Waqar Uddin P. Sathishkumar Muhammad Umair Ali S. Hussain M. Ishfaq Himanshu Archana Subramanian Hee-Je Kim

Electronics , Volume: 7, Issue: 7, Article Number: 119

Impact Factor: 1.764 | **Quartile:** 3 | **Citations:** 14

DOI: DOI:10.3390/electronics7070119

Robust speed regulation of indirect vector control induction motor using fuzzy logic controllers based on optimization algorithms

2018

Kamran Zeb Waqar Uddin Aun Haider S. Belal C. A. Mehmood Muhammad Adil Khan Hee-Je Kim

Electrical Engineering , Volume 100, Pages 787-802

Impact Factor: 1.296 | **Quartile:** 3 | **Citations:** 24

DOI: <https://doi.org/10.1007/s00202-017-0553-z>

A Novel Supercapacitor/Lithium-Ion Hybrid Energy System with a Fuzzy Logic-Controlled Fast Charging and Intelligent Energy Management System

2018

Muhammad Adil Khan Kamran Zeb P. Sathishkumar Muhammad Umair Ali Waqar Uddin S. Hussain M. Ishfaq Imran Khan Hwan-Gue Cho Hee-Je Kim

Electronics , Volume: 7, Issue: 5, Article Number:63

Impact Factor: 1.764 | **Quartile:** 3 | **Citations:** 55

DOI: DOI:10.3390/electronics7050063

A Real-Time Simulink Interfaced Fast-Charging Methodology of Lithium-Ion Batteries under Temperature Feedback with Fuzzy Logic Control	2018
<i>Muhammad Umair Ali Sarvar Hussain Nengroo Muhamad Adil Khan Kamran Zeb Muhammad Ahmad Kamran Hee-Je Kim</i> <i>Energies</i> , Volume 11, Issue 5, Article Number 1122 Impact Factor: 2.707 Quartile: 3 Citations: 50 DOI: DOI:10.3390/en11051122	
Digital Soft Start Implementation for Minimizing Start Up Transients in High Power DAB-IBDC Converter	2018
<i>P. Sathishkumar T. N. V. Krishna Himanshu Muhammad Adil Khan Kamran Zeb Hee-Je Kim</i> <i>Energies</i> , Volume 11(4), Article Number 956 Impact Factor: 2.707 Quartile: 3 Citations: 18 DOI: https://doi.org/10.3390/en11040956	
A Novel Off-Grid Optimal Hybrid Energy System for Rural Electrification of Tanzania Using a Closed Loop Cooled Solar System	2018
<i>Muhammad Adil Khan Kamran Zeb P. Sathishkumar S. Srinivasa Rao Chandu V. V. Muralee Gopi Hee-Je Kim</i> <i>Energies</i> , Volume 11(4), Article Number 905 Impact Factor: 2.707 Quartile: 3 Citations: 30 DOI: https://doi.org/10.3390/en11040905	
Indirect field-oriented control of induction motor drive based on adaptive fuzzy logic controller	2017
<i>Kamran Zeb Zunaib Ali K. Saleem Waqar Uddin M. A. Javed N. Christofides</i> <i>Electrical Engineering</i> , Volume 99, Pages 803–815 Impact Factor: 1.269 Quartile: 3 Citations: 45 DOI: https://doi.org/10.1007/s00202-016-0447-5	
A survey on waste heat recovery: Electric power generation and potential prospects within Pakistan	2017
<i>Kamran Zeb S. M. Ali B. Khan C. A. Mehmood N. Tareen Waqar Uddin U. Farid Aun Haider</i> <i>Renewable and Sustainable Energy Reviews</i> , Volume 75, Pages 1142-1155 Impact Factor: 9.184 Quartile: 1 Citations: 61 DOI: https://doi.org/10.1016/j.rser.2016.11.096	
Pakistan geothermal renewable energy potential for electric power generation: A survey	2016
<i>Umair Younas B. Khan S. M. Ali C. A. Mehmood U. Farid Kamran Zeb F. Rehman Yasir Mehmood A. Vaccaro</i> <i>Renewable & Sustainable Energy Reviews</i> , Volume 63, Pages 398-413 Impact Factor: 8.050 Quartile: 1 Citations: 52 DOI: https://doi.org/10.1016/j.rser.2016.04.038	
A Neuro-Fuzzy based Non-linear Control Technique for Steam Boiler using Levenberg-Marquardt Algorithm	2015
<i>Waqar Uddin Kamran Zeb Zunaib Ali Syed Riazul Hussnain Shahid Qamar Tariqullah Jan Sana ul Haq</i> <i>Proceedings of the Pakistan Academy of Sciences</i> , Volume 52(3), Pages 215-225 Impact Factor: N/A DOI: https://paspk.org/wp-content/uploads/proceedings/52,%20No.%203/c01ef1fbProceedings%2052(3)%20Sep%202015.pdf#page=49	

Conference Proceedings

Enhancing voltage stability in DC microgrid using robust integral sliding mode controller	2024
<i>Fozia feroze Awan Kamran Zeb Muhammad Imran Muhammad Khalid</i> <i>t International Conference on Smart Mobility and Logistics Ecosystems (SMiLE)</i> , res.country(192,) Citations: N/A DOI: 10.1016/j.trpro.2025.03.083	
Design and Analysis of DC-DC Two-Phase Interleaved Buck Converter for EV Charging Applications	2023
<i>Muhammad Yousuf Kamran Zeb</i> <i>2023 18th International Conference on Emerging Technologies (ICET)</i> , res.country(177,) Citations: N/A DOI: https://doi.org/10.1109/ICET59753.2023.10374676	
Adaptive VSG Control with Coefficient Optimization via Improved Particle Swarm Algorithm	2023
<i>Jie Chen Muyang Liu Junru Chen Kamran Zeb Hassaan Khaliq Qureshi</i> <i>2023 3rd International Conference on Energy, Power and Electrical Engineering, EPEE 2023</i> , res.country(48,) Citations: N/A DOI: 10.1109/EPEE59859.2023.10351947	

Assessment of the Performance and Shortcomings of Common Electric Vehicle Battery Technologies <i>Rafiq Asghar Kaleem Ullah Zahid Ullah Athar Waseem Nauman Ali Kamran Zeb</i> <i>International Conference on Electrical, Communication, and Computer Engineering (ICECCE), res.country(157,)</i> Citations: N/A DOI: https://doi.org/10.1109/ICECCE52056.2021.9514256	2021
Effect of Modulation Techniques on Capacitor Voltage of Modular Multilevel Converter <i>Waqar Uddin Kamran Zeb Muhammad Adil Khan Muhammad Ishfaq Tiago Davi Curi Busarello Hee-Je Kim</i> <i>IEEE 23rd International Multitopic Conference (INMIC), res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.1109/INMIC50486.2020.9318121	2020
Super twisting sliding mode control for inner current suppression of Modular Multilevel Converter <i>Waqar Uddin Muhammad Ishfaq Kamran Zeb Muhammad Adil Khan Saif ul Islam Hee Je Kim Zahid Ullah Imran Khan University of Paris-Saclay</i> <i>3rd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.1109/iCoMET48670.2020.9073851	2020
Robust Control Design for DFIG based Wind Turbine under Voltage Sags <i>Imran Khan Kamran Zeb Waqar Uddin Muhammad Ishfaq Saif Ul Islam Khadim Ullah Jan</i> <i>3rd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.1109/iCoMET48670.2020.9074103	2020
Design of Adaptive Sliding Mode Controller for Single-Phase Grid-Tied PV System <i>Kamran Zeb Saif Ul Islam Waqar Uddin Imran Khan Muhammad Ishfaq Zahid Ullah T.D.C. Busarello Hee Je Kim</i> <i>2019 15th International Conference on Emerging Technologies (ICET), res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.1109/ICET48972.2019.8994614	2019
DC-link Voltage Regulation of Single-Phase Grid- Tied PV System using Fuzzy-PI Controller <i>Kamran Zeb Saif Ul Islam Waqar Uddin Kaleem Ullah Rafiq Asghar Tiago Davi Curi Busarello Hee-Je Kim</i> <i>15th International Conference on Emerging Technologies (ICET), res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.1109/ICET48972.2019.8994542	2019
Adaptive Fuzzy Logic Controller for Indirect Field Oriented Controlled Induction Motor <i>Kamran Zeb Waqar Uddin Saif Ul Islam Imran Khan Muhammad Ishfaq Zahid Ullah Aun Haider Hee Je Kim</i> <i>2nd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.1109/ICOMET.2019.8673498	2019
An Overview of Transformerless Inverters for Grid Connected Photovoltaic System <i>Kamran Zeb Saif Ul Islam Waqar Uddin Imran Khan Muhammad Adil Khan Sajid Ali T.D.C. Busarello</i> <i>International Conference on Computing, Electronic and Electrical Engineering (ICE Cube), res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.1109/ICECUBE.2018.8610988	2018
A comparative assessment of scalar controlled induction motor using PI, adaptive sliding mode, and FLC based on SD controllers <i>Kamran Zeb Waqar Uddin Muhammad Adil Khan Ayesha Aun Haider Hee-Je Kim</i> <i>First International Conference on Latest trends in Electrical Engineering and Computing Technologies (INTELLECT), res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.1109/INTELLECT.2017.8277621	2017
Indirect Vector Control of Induction Motor using Adaptive Sliding Mode Controller <i>Kamran Zeb Ayesha Aun Haider Waqar Uddin M. Bilal Qureshi C. A. Mehmood Ahmad Jazlan Victor Sreeram</i> <i>2016 Australian Control Conference (AuCC) , res.country(13,)</i> Citations: N/A DOI: https://doi.org/10.1109/AUCC.2016.7868216	2016
Performance of adaptive PI based on fuzzy logic for Indirect Vector Control Induction Motor drive <i>Kamran Zeb Komal Saleem C. A. Mehmood Waqar Uddin Muhammad Zia Ur Rehman Aun Haider M. A. Javed</i> <i>2016 2nd International Conference on Robotics and Artificial Intelligence (ICRAI), res.country(177,)</i> Citations: N/A	2016

DOI: <https://doi.org/10.1109/ICRAI.2016.7791235>

Fault Tolerant Speed Regulation of Induction Motor Using Artificial Neural Network

2015

*Kamran Zeb Farhana C. A. Mehmood B. Khan S. M. Ali Ayesha A. M. Jadoon Waqar Uddin
International Conference on Emerging Technologies (ICET), res.country(177,)*

Citations: N/A

DOI: <https://doi.org/10.1109/ICET.2015.7389221>

Editorial Activities

IEEE Transactions on Industry Applications

2023

Reviewed Papers for Journals

Impact Factor: 4.4

Eletrônica de Potência

2022

Reviewed Papers for Journals

Impact Factor: Nil

Eletrônica de Potência

2022

Reviewed Papers for Journals

Impact Factor: Nil

Reviewed Papers for Journals

2021

Impact Factor: N/A

Reviewed Papers for Journals

2021

Impact Factor: N/A

Reviewed Papers for Journals

2021

Impact Factor: N/A

Reviewed Papers for Journals

2021

Impact Factor: N/A

Reviewed Papers for Journals

2021

Impact Factor: N/A

Reviewed Papers for Journals

2020

Impact Factor: N/A

Trainings

Event Invitation - International Conference on Emerging Fourth Industrial Revolution (4IR)

2021

Technologies for Sustainable Development

Partner: China

Duration: 22-Jul-2021 to 22-Jul-2021