

# Kamran Zeb

Assistant Professor

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	2017 - 2020
Pusan National University , Korea	
MS in Electrical Engineering	2014 - 2016
COMSATS Institute of Information Technology , Pakistan	
BSc in Electrical Engineering	2008 - 2013
COMSATS, Abbottabad , Pakistan	

Experience

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

Awards

Best Paper Award	2019
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"	
Prime Minister Reimbursem	2016
Prime Minister Reimbursement Scholarship Holder COMSATS Abbottabad	
3rd Position	2014
3rd Position in National Academy of Young Scientist Innovative	

Professional Memberships

PEC	Since 2013
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Research Projects

National Projects

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

International Projects

Research Articles

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

<b>A Novel Distributed Consensus-Based Approach to Solve the Economic Dispatch Problem Incorporating the Valve-Point Effect and Solar Energy Sources</b> <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 <b>Impact Factor:</b> 3.252   <b>Quartile:</b> 3   <b>Citations:</b> 4 <b>DOI:</b> <a href="https://doi.org/10.3390/en16010447">https://doi.org/10.3390/en16010447</a>	2022
<b>Design and Control of a Quasi-Z Source Multilevel Inverter Using a New Reaching Law-Based Sliding Mode Control</b> <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 <b>Impact Factor:</b> 3.252   <b>Quartile:</b> 3   <b>Citations:</b> 7 <b>DOI:</b> <a href="https://doi.org/10.3390/en15218002">https://doi.org/10.3390/en15218002</a>	2022
<b>Design of Robust Fuzzy Logic Controller Based on Gradient Descent Algorithm with Parallel-Resonance Type Fault Current Limiter for Grid-Tied PV System</b> <i>Saif Ul Islam Kamran Zeb Soobae Kim</i> <i>Sustainability</i> , Volume 14, Issue 19, Article Number 12251 <b>Impact Factor:</b> 3.889   <b>Quartile:</b> 2   <b>Citations:</b> 4 <b>DOI:</b> <a href="https://doi.org/10.3390/su141912251">https://doi.org/10.3390/su141912251</a>	2022
<b>High-performance and Multi-functional Control of Transformerless Single-phase Smart Inverter for Grid-connected PV System</b> <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 <b>Impact Factor:</b> 3.265   <b>Quartile:</b> 2   <b>Citations:</b> 16 <b>DOI:</b> <a href="https://doi.org/10.35833/MPCE.2019.000331">https://doi.org/10.35833/MPCE.2019.000331</a>	2021
<b>Control Strategy Based on Arm-Level Control for Output and Circulating Current of MMC in Stationary Reference Frame</b> <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 <b>Impact Factor:</b> 3.252   <b>Quartile:</b> 3   <b>Citations:</b> 7 <b>DOI:</b> <a href="https://doi.org/10.3390/en14144160">https://doi.org/10.3390/en14144160</a>	2021
<b>Control of Transformerless Inverter-Based Two-Stage Grid-Connected Photovoltaic System Using Adaptive-PI and Adaptive Sliding Mode Controllers</b> <i>Waqar Uddin Hee-Je Kim Kamran Zeb Muhamamd Saqib Nazir Iftikhar Ahmad</i> <i>Energies</i> , Volume 14(9), Article Number 2546 <b>Impact Factor:</b> 3.252   <b>Quartile:</b> 3   <b>Citations:</b> 14 <b>DOI:</b> <a href="https://doi.org/10.3390/en14092546">https://doi.org/10.3390/en14092546</a>	2021
<b>Boosting the energy density of highly efficient flexible hybrid supercapacitors via selective integration of hierarchical nanostructured energy materials</b> <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 <b>Impact Factor:</b> 6.901   <b>Quartile:</b> 2   <b>Citations:</b> 62 <b>DOI:</b> <a href="https://doi.org/10.1016/j.electacta.2020.137318">https://doi.org/10.1016/j.electacta.2020.137318</a>	2020
<b>Highly efficient copper-cobalt sulfide nano-reeds array with simplistic fabrication strategy for battery-type supercapacitors</b> <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 <b>Impact Factor:</b> 6.583   <b>Quartile:</b> 1   <b>Citations:</b> 145 <b>DOI:</b> <a href="https://doi.org/10.1016/j.est.2020.101988">https://doi.org/10.1016/j.est.2020.101988</a>	2020
<b>CoCu2O4 nanoflowers architecture as an electrode material for battery type supercapacitor with improved electrochemical performance</b> <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 &amp; Nano-Objects</i> , Volume 24, Article Number 100618 <b>Impact Factor:</b> N/A   <b>Citations:</b> 40 <b>DOI:</b> <a href="https://doi.org/10.1016/j.nanoso.2020.100618">https://doi.org/10.1016/j.nanoso.2020.100618</a>	2020

<p><b>Highly Accurate Digital Current Controllers for Single-Phase LCL-Filtered Grid-Connected Inverters</b></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><b>Impact Factor:</b> N/A   <b>Citations:</b> 14</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/electricity1010002">https://doi.org/10.3390/electricity1010002</a></p>	2020
<p><b>Design of Super Twisting Sliding Mode Controller for a Three-Phase Grid-connected Photovoltaic System under Normal and Abnormal Conditions</b></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><b>Impact Factor:</b> 3.004   <b>Quartile:</b> 3   <b>Citations:</b> 30</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/en13153773">https://doi.org/10.3390/en13153773</a></p>	2020
<p><b>Design of Sliding Mode Controller based on SuperTwisting Algorithm for the three-phase grid-connected PV system under normal and abnormal conditions</b></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><b>Impact Factor:</b> 3.004   <b>Quartile:</b> 3   <b>Citations:</b> 30</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/en13153773">https://doi.org/10.3390/en13153773</a></p>	2020
<p><b>A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques</b></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><b>Impact Factor:</b> 2.397   <b>Quartile:</b> 3   <b>Citations:</b> 161</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/electronics9071161">https://doi.org/10.3390/electronics9071161</a></p>	2020
<p><b>A Comprehensive Review of DC–DC Converter Topologies and Modulation Strategies with Recent Advances in Solar Photovoltaic Systems</b></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><b>Impact Factor:</b> 2.412   <b>Quartile:</b> 2   <b>Citations:</b> 154</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/electronics9010031">https://doi.org/10.3390/electronics9010031</a></p>	2019
<p><b>Control of output and circulating current of modular multilevel converter using a sliding mode approach</b></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><b>Impact Factor:</b> 2.702   <b>Quartile:</b> 3   <b>Citations:</b> 33</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/en12214084">https://doi.org/10.3390/en12214084</a></p>	2019
<p><b>A Neural Network-Based Model Reference Control Architecture for Oscillation Damping in Interconnected Power System</b></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><b>Impact Factor:</b> 2.702   <b>Quartile:</b> 3   <b>Citations:</b> 4</p> <p><b>DOI:</b> DOI: 10.3390/en12193653</p>	2019
<p><b>Design of Fuzzy-PI and Fuzzy-Sliding Mode Controllers for Single-Phase Two-Stages Grid-Connected Transformerless Photovoltaic Inverter</b></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><b>Impact Factor:</b> 2.412   <b>Quartile:</b> 2   <b>Citations:</b> 68</p> <p><b>DOI:</b> 10.3390/electronics8050520</p>	2019
<p><b>Design of Robust Fuzzy Logic Controller Based on the Levenberg Marquardt Algorithm and Fault Ride Trough Strategies for a Grid-Connected PV System</b></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><b>Impact Factor:</b> 2.412   <b>Quartile:</b> 2   <b>Citations:</b> 19</p> <p><b>DOI:</b> DOI: 10.3390/electronics8040429</p>	2019
<p><b>Control of internal dynamics of grid-connected modular multilevel converter using an integral backstepping controller</b></p> <p><i>Waqar Ud Din Kamran Zeb Muhammad Ishfaq Saif Ul Islam Imran Khan Hee Je Kim</i></p>	2019

<p><i>Electronics</i> , Volume: 8, Issue: 4, Article Number: 456</p> <p><b>Impact Factor:</b> 2.412   <b>Quartile:</b> 2   <b>Citations:</b> 12</p> <p><b>DOI:</b> 10.3390/electronics8040456</p>	
<p><b>Current and future prospects of small hydro power in Pakistan: A survey</b></p> <p><i>Waqar Uddin Ayesha Kamran Zeb Aun Haider Bilal Khan Saif ul Islam M. Ishfaq Imran Khan M. Adild Hee Je Kim</i></p> <p><i>Energy Strategy Reviews</i> , Volume 24, Pages 166-177</p> <p><b>Impact Factor:</b> 3.895   <b>Quartile:</b> 2   <b>Citations:</b> 56</p> <p><b>DOI:</b> DOI: 10.1016/j.esr.2019.03.002</p>	2019
<p><b>A New Adaptive Approach to Control Circulating and Output Current of Modular Multilevel Converter</b></p> <p><i>Muhammad Ishfaq Waqar Uddin Kamran Zeb Imran Khan Saif Ul Islam Muhammad Adil Khan Hee Je Kim</i></p> <p><i>Energies</i> , Volume 12(6), Article Number 1118</p> <p><b>Impact Factor:</b> 2.702   <b>Quartile:</b> 3   <b>Citations:</b> 20</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/en12061118">https://doi.org/10.3390/en12061118</a></p>	2019
<p><b>Dynamic Modeling and Robust Controllers Design for Doubly Fed Induction Generator-Based Wind Turbines under Unbalanced Grid Fault Conditions</b></p> <p><i>Imran Khan Kamran Zeb Waqar-ud-Din Saif Ul Islam Muhammad Ishfaq Saddam Hussain Hee-Je Kim</i></p> <p><i>Energies</i> , Volume 12, Issue 3, Article Number: 454</p> <p><b>Impact Factor:</b> 2.702   <b>Quartile:</b> 3   <b>Citations:</b> 28</p> <p><b>DOI:</b> DOI: 10.3390/en12030454</p>	2019
<p><b>Design of a Proportional Resonant Controller with Resonant Harmonic Compensator and Fault Ride Trough Strategies for a Grid-Connected Photovoltaic System</b></p> <p><i>Saif Ul Islam Kamran Zeb Waqar Ud Din Imran Khan Muhammad Ishfaq Tiago Davi Curi Busarello Hee Je Kim</i></p> <p><i>Electronics</i> , Volume:7, Issue:12, Article Number: 451</p> <p><b>Impact Factor:</b> 1.764   <b>Quartile:</b> 3   <b>Citations:</b> 35</p> <p><b>DOI:</b> DOI:10.3390/electronics7120451</p>	2018
<p><b>A comprehensive review on inverter topologies and control strategies for grid connected photovoltaic system</b></p> <p><i>Kamran Zeb Waqar Uddin Muhammad Adil Khan Zunaib Ali Muhammad Umair Ali Nicholas Christofides H.J. Kim</i></p> <p><i>Renewable and Sustainable Energy Reviews</i> , Volume 94, Pages 1120-1141</p> <p><b>Impact Factor:</b> 10.556   <b>Quartile:</b> 1   <b>Citations:</b> 260</p> <p><b>DOI:</b> <a href="https://doi.org/10.1016/j.rser.2018.06.053">https://doi.org/10.1016/j.rser.2018.06.053</a></p>	2018
<p><b>Dynamic simulations of adaptive design approaches to control the speed of an induction machine considering parameter uncertainties and external perturbations</b></p> <p><i>Kamran Zeb Waqar U. Din Muhammad Adil Khan Ayesha Khan Umair Younas Tiago Davi Curi Busarello Hee Je Kim</i></p> <p><i>Energies</i> , Volume 11, Issue 9, Article Number: 2338</p> <p><b>Impact Factor:</b> 2.707   <b>Quartile:</b> 3   <b>Citations:</b> 17</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/en11092339">https://doi.org/10.3390/en11092339</a></p>	2018
<p><b>Design of a Building-Integrated Photovoltaic System with a Novel Bi-Reflector PV System (BRPVS) and Optimal Control Mechanism: An Experimental Study</b></p> <p><i>Muhammad Adil Khan Kamran Zeb Waqar Uddin P. Sathishkumar Muhammad Umair Ali S. Hussain M. Ishfaq Himanshu Archana Subramanian Hee-Je Kim</i></p> <p><i>Electronics</i> , Volume: 7, Issue: 7, Article Number: 119</p> <p><b>Impact Factor:</b> 1.764   <b>Quartile:</b> 3   <b>Citations:</b> 14</p> <p><b>DOI:</b> DOI:10.3390/electronics7070119</p>	2018
<p><b>Robust speed regulation of indirect vector control induction motor using fuzzy logic controllers based on optimization algorithms</b></p> <p><i>Kamran Zeb Waqar Uddin Aun Haider S. Belal C. A. Mehmood Muhammad Adil Khan Hee-Je Kim</i></p> <p><i>Electrical Engineering</i> , Volume 100, Pages 787-802</p> <p><b>Impact Factor:</b> 1.296   <b>Quartile:</b> 3   <b>Citations:</b> 24</p> <p><b>DOI:</b> <a href="https://doi.org/10.1007/s00202-017-0553-z">https://doi.org/10.1007/s00202-017-0553-z</a></p>	2018
<p><b>A Novel Supercapacitor/Lithium-Ion Hybrid Energy System with a Fuzzy Logic-Controlled Fast Charging and Intelligent Energy Management System</b></p> <p><i>Muhammad Adil Khan Kamran Zeb P. Sathishkumar Muhammad Umair Ali Waqar Uddin S. Hussain M. Ishfaq Imran Khan Hwan-Gue Cho Hee-Je Kim</i></p> <p><i>Electronics</i> , Volume: 7, Issue: 5, Article Number:63</p> <p><b>Impact Factor:</b> 1.764   <b>Quartile:</b> 3   <b>Citations:</b> 55</p> <p><b>DOI:</b> DOI:10.3390/electronics7050063</p>	2018

<b>A Real-Time Simulink Interfaced Fast-Charging Methodology of Lithium-Ion Batteries under Temperature Feedback with Fuzzy Logic Control</b>	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 <b>Impact Factor:</b> 2.707   <b>Quartile:</b> 3   <b>Citations:</b> 50 <b>DOI:</b> DOI:10.3390/en11051122	
<b>Digital Soft Start Implementation for Minimizing Start Up Transients in High Power DAB-IBDC Converter</b>	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 <b>Impact Factor:</b> 2.707   <b>Quartile:</b> 3   <b>Citations:</b> 18 <b>DOI:</b> <a href="https://doi.org/10.3390/en11040956">https://doi.org/10.3390/en11040956</a>	
<b>A Novel Off-Grid Optimal Hybrid Energy System for Rural Electrification of Tanzania Using a Closed Loop Cooled Solar System</b>	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 <b>Impact Factor:</b> 2.707   <b>Quartile:</b> 3   <b>Citations:</b> 30 <b>DOI:</b> <a href="https://doi.org/10.3390/en11040905">https://doi.org/10.3390/en11040905</a>	
<b>Indirect field-oriented control of induction motor drive based on adaptive fuzzy logic controller</b>	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 <b>Impact Factor:</b> 1.269   <b>Quartile:</b> 3   <b>Citations:</b> 45 <b>DOI:</b> <a href="https://doi.org/10.1007/s00202-016-0447-5">https://doi.org/10.1007/s00202-016-0447-5</a>	
<b>A survey on waste heat recovery: Electric power generation and potential prospects within Pakistan</b>	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 <b>Impact Factor:</b> 9.184   <b>Quartile:</b> 1   <b>Citations:</b> 61 <b>DOI:</b> <a href="https://doi.org/10.1016/j.rser.2016.11.096">https://doi.org/10.1016/j.rser.2016.11.096</a>	
<b>Pakistan geothermal renewable energy potential for electric power generation: A survey</b>	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 &amp; Sustainable Energy Reviews</i> , Volume 63, Pages 398-413 <b>Impact Factor:</b> 8.050   <b>Quartile:</b> 1   <b>Citations:</b> 52 <b>DOI:</b> <a href="https://doi.org/10.1016/j.rser.2016.04.038">https://doi.org/10.1016/j.rser.2016.04.038</a>	
<b>A Neuro-Fuzzy based Non-linear Control Technique for Steam Boiler using Levenberg-Marquardt Algorithm</b>	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 <b>Impact Factor:</b> N/A <b>DOI:</b> <a href="https://paspk.org/wp-content/uploads/proceedings/52,%20No.%203/c01ef1fbProceedings%2052(3)%20Sep%202015.pdf#page=49">https://paspk.org/wp-content/uploads/proceedings/52,%20No.%203/c01ef1fbProceedings%2052(3)%20Sep%202015.pdf#page=49</a>	

## Conference Proceedings

<b>Enhancing voltage stability in DC microgrid using robust integral sliding mode controller</b>	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,) <b>Citations:</b> N/A <b>DOI:</b> 10.1016/j.trpro.2025.03.083	
<b>Design and Analysis of DC-DC Two-Phase Interleaved Buck Converter for EV Charging Applications</b>	2023
<i>Muhammad Yousuf Kamran Zeb</i> <i>2023 18th International Conference on Emerging Technologies (ICET)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/ICET59753.2023.10374676">https://doi.org/10.1109/ICET59753.2023.10374676</a>	
<b>Adaptive VSG Control with Coefficient Optimization via Improved Particle Swarm Algorithm</b>	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,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/EPEE59859.2023.10351947	

<b>Assessment of the Performance and Shortcomings of Common Electric Vehicle Battery Technologies</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/ICECCE52056.2021.9514256">https://doi.org/10.1109/ICECCE52056.2021.9514256</a>	2021
<b>Effect of Modulation Techniques on Capacitor Voltage of Modular Multilevel Converter</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/INMIC50486.2020.9318121">https://doi.org/10.1109/INMIC50486.2020.9318121</a>	2020
<b>Super twisting sliding mode control for inner current suppression of Modular Multilevel Converter</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/iCoMET48670.2020.9073851">https://doi.org/10.1109/iCoMET48670.2020.9073851</a>	2020
<b>Robust Control Design for DFIG based Wind Turbine under Voltage Sags</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/iCoMET48670.2020.9074103">https://doi.org/10.1109/iCoMET48670.2020.9074103</a>	2020
<b>Design of Adaptive Sliding Mode Controller for Single-Phase Grid-Tied PV System</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/ICET48972.2019.8994614">https://doi.org/10.1109/ICET48972.2019.8994614</a>	2019
<b>DC-link Voltage Regulation of Single-Phase Grid- Tied PV System using Fuzzy-PI Controller</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/ICET48972.2019.8994542">https://doi.org/10.1109/ICET48972.2019.8994542</a>	2019
<b>Adaptive Fuzzy Logic Controller for Indirect Field Oriented Controlled Induction Motor</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/ICOMET.2019.8673498">https://doi.org/10.1109/ICOMET.2019.8673498</a>	2019
<b>An Overview of Transformerless Inverters for Grid Connected Photovoltaic System</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/ICECUBE.2018.8610988">https://doi.org/10.1109/ICECUBE.2018.8610988</a>	2018
<b>A comparative assessment of scalar controlled induction motor using PI, adaptive sliding mode, and FLC based on SD controllers</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/INTELLECT.2017.8277621">https://doi.org/10.1109/INTELLECT.2017.8277621</a>	2017
<b>Indirect Vector Control of Induction Motor using Adaptive Sliding Mode Controller</b> <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> <b>Citations:</b> N/A <b>DOI:</b> <a href="https://doi.org/10.1109/AUCC.2016.7868216">https://doi.org/10.1109/AUCC.2016.7868216</a>	2016
<b>Performance of adaptive PI based on fuzzy logic for Indirect Vector Control Induction Motor drive</b> <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> <b>Citations:</b> 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

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**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

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**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