

## Abasin Ulasyar

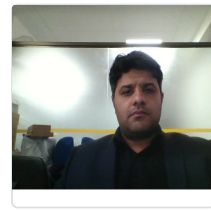
Assistant Professor

US-Pakistan Center for Advanced Studies in Energy

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## About

Dr. Abasin Ulasyar is working as Assistant Professor in the US-Pakistan Center for Advanced Studies in Energy. Dr. Abasin Ulasyar has a PhD in Power And Control. Dr. Abasin Ulasyar has published 54 research articles & conference papers having a citation count of 442, carried out 4 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Power And Control</b> Koc University , Turkey	2014 - 2018
<b>MS in Energy And Control</b> UET Taxila , Pakistan	2011 - 2013
<b>BS in Electronics And Control</b> National University of Computer & Emerging Sciences , Pakistan	2007 - 2011
<b>F.Sc in Pre Engineering</b> BISE, Peshawar , Pakistan	2003 - 2005
<b>Matric (SSC) in Science Group</b> BISE, Peshawar , Pakistan	1992 - 2003

## Experience

<b>Assistant Professor</b> US-Pakistan Center for Advanced Studies in Energy	2023- Present
<b>Assistant Professor</b> US-Pakistan Center for Advanced Studies in Energy	2022 - 2022
<b>Assistant Professor</b> US-Pakistan Center for Advanced Studies in Energy	2019 - 2022
<b>Assistant Professor</b> Centre for Energy System	2018 - 2019
<b>Research &amp; Teaching Assistant</b> Koç University Istanbul Turkey , Rumelifeneri Mahallesi, Sariyer Rumeli Feneri Yolu, 34450 Sariyer/Istanbul, Turkey	2014 - 2018
<b>Lecturer &amp; Coordinator</b> City University of Science & Information Technology Peshawar , Dalazak Rd, Pakha Ghulam, Peshawar, Khyber Pakhtunkhwa	2013 - 2014
<b>Assistant Manager</b> PTCL Islamabad , PTCL Islamabad	2013 - 2013
<b>Management Trainee Engineer</b> PTCL Islamabad , PTCL Islamabad	2012 - 2013
<b>Lab Engineer</b> National University of Computer and Emerging Sciences Islamabad , FAST University, 3 A.K. Brohi Road, H-11/4 H 11/4 H-11, Islamabad, Islamabad Capital Territory	2011 - 2012

Awards

<b>Arcelik A.S and TUBITAK</b> Development of a New Active and Adaptive Vibration Control System", Project Funded by Arcelik A.S and TUBITAK, (2016-2018)	2016
<b>TÜBITAK 2215 Graduate Sch</b> TÜBITAK 2215 Graduate Scholarship for International Students (2014-2018)	2014
<b>Scholarship</b> CASE Islamabad Merit based Scholarship for Excellent Academic Achievements in Masters of Science in Electrical Engineering (2011-2013)	2011
<b>Bronze Medal</b> Secured 3rd position in the overall batch and awarded with Bronze Medal and University Honor "Magna Cum Laude" in Bachelors of Science in Telecommunication Engineering (2011)	2011
<b>Dean's List</b> Awarded with FAST Dean's List of Honors Certificate for Excellent Academic Achievements in Bachelors of Science in Telecommunication Engineering (2008-2011)	2008

Professional Memberships

PEC	Since 2011
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Research Projects

<b>National Projects</b>	
<b>Development of Accelerated Weathering Standard for Pakistan</b> Funding Agency: HEC Amount: PKR 495,520.00 Status: Completed	2019
<b>International Projects</b>	

Industry Projects

<b>National Projects</b>	
<b>Real Time Smart Leakage Current Monitoring System for High Voltage Insulators in Laboratory and field applications</b> Client: EMCO INDUSTRIES Amount: PKR 580,000.00 Status: Approved_inprocess	2022
<b>Functionalities Testing of Inverter/ VFD for Solar System</b> Client: M/S Saif Traders, Karachi Amount: PKR 74,000.00 Status: Completed	2021
<b>PV Grid-Tied Hybrid Inverter Grid Code Compliance Setup Development and Testing</b> Client: Private Amount: PKR 200,000.00 Status: Approved_inprocess	2021
<b>International Projects</b>	

Research Articles

<b>Synthesis and analysis of a novel thermal interface material for DC-DC boost converter</b> <i>Ali Hamza Mariam Mahmood Abasin Ulasyar Syed Najeeb Ali Kazmi Sheeraz Iqbal Yazeed Yasin Ghadi Ali Saeed Almuflih Z. M. S. Elbarbary Scientific Reports , Vol:14, Article Number: 22503, Pages:13</i> Impact Factor: 3.8   Quartile: 1   Citations: 3 DOI: <a href="https://doi.org/10.1038/s41598-024-73181-6">https://doi.org/10.1038/s41598-024-73181-6</a>	2024
<b>A New Cloud-Based IoT Solution for Soiling Ratio Measurement of PV Systems Using Artificial Neural Network</b> <i>Mussawir Ul Mahmood Abasin Ulasyar Waleed Ali Kamran Zeb Haris Sheh Zad Waqar Uddin Hee Je Kim Energies , Volume 16(2), Article Number 996</i>	2023

<b>Impact Factor:</b> 3.252   <b>Quartile:</b> 3   <b>Citations:</b> 19 <b>DOI:</b> doi.org/10.3390/en16020996	
<b>Design and Control of Novel Grid Tied Multilevel Filter-Less Inverter Using Current Based Sliding Mode Control</b> <i>Muhammad Osama Saad Abasin Ulasayar Waleed Ali Haris Sheh Zad Nasim Ullah Wojtech Blazek Lukas Prokop Stanislav Misak</i> <i>IEEE Access</i> , Volume 10, Pages 115555-115570 <b>Impact Factor:</b> 3.476   <b>Quartile:</b> 2   <b>Citations:</b> 8 <b>DOI:</b> 10.1109/ACCESS.2022.3218338	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 Ulasayar 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> https://doi.org/10.3390/en15218002	2022
<b>Development and Analysis of a Novel High-Gain CUK Converter Using Voltage-Multiplier Units</b> <i>Zeeshan Haider Abasin Ulasayar Abraiz Khattak Haris Sheh Zad Alsharef Mohammad Ahmad Aziz Alahmadi Nasim Ullah</i> <i>Electronics</i> , Volume 11(17), Article Number 2766 <b>Impact Factor:</b> 2.690   <b>Quartile:</b> 3   <b>Citations:</b> 19 <b>DOI:</b> https://doi.org/10.3390/electronics11172766	2022
<b>Optimal Sizing and Allocation of Distributed Generation in the Radial Power Distribution System Using Honey Badger Algorithm</b> <i>Muhammad Haris Khan Abasin Ulasayar Abraiz Khattak Haris Sheh Zad Mohammad Alsharef Ahmad Aziz Alahmadi Nasim Ullah</i> <i>Energies</i> , Volume 15(16), Article Number 5891 <b>Impact Factor:</b> 3.252   <b>Quartile:</b> 3   <b>Citations:</b> 32 <b>DOI:</b> https://doi.org/10.3390/en15165891	2022
<b>Adaptive sliding mode predictive power control of three-phase AC/DC converters</b> <i>Haris Sheh Zad Abasin Ulasayar Adil Zohaib Abraiz Khattak</i> <i>Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering</i> , Volume 236, Issue 5, Pages 897-912 <b>Impact Factor:</b> 1.714   <b>Quartile:</b> 3   <b>Citations:</b> 4 <b>DOI:</b> https://doi.org/10.1177/09596518221079469	2022
<b>A new state of charge estimation technique of lithium-ion battery using adaptive extended Kalman filter and artificial neural network</b> <i>Syed Najeeb Ali Kazmi Abasin Ulasayar Abraiz Khattak Haris Sheh Zad</i> <i>Transactions of the Institute of Measurement and Control</i> , Pages 1-14 <b>Impact Factor:</b> 2.146   <b>Quartile:</b> 3   <b>Citations:</b> 11 <b>DOI:</b> 10.1177/01423312221128526	2022
<b>Design and Analysis of a Dual Rotor Multiphase Brushless DC Motor for its Application in Electric Vehicles</b> <i>Abasin Ulasayar Haris Sheh Zad Abraiz Khattak Shibli Nisar Kashif Imran Mujtaba Hussain</i> <i>Engineering, Technology &amp; Applied Science Research</i> , Volume 11, No. 6, Pages 7846-7852 <b>Impact Factor:</b> N/A   <b>Citations:</b> 11 <b>DOI:</b> https://doi.org/10.48084/etasr.4345	2021
<b>Techno-economic assessment and sustainability impact of hybrid energy systems in Gilgit-Baltistan, Pakistan</b> <i>Mazhar Ali Rashid Wazir Kashif Imran Kafait Ullah Abdul Kashif Janjua Abasin Ulasayar Abraiz Khattak Joseph M. Guerrero</i> <i>Energy Reports</i> , Volume 7, Pages 2546-2562 <b>Impact Factor:</b> 4.937   <b>Quartile:</b> 2   <b>Citations:</b> 61 <b>DOI:</b> https://doi.org/10.1016/j.egy.2021.04.036	2021
<b>Artificial neural network based simplified one day ahead forecasting of solar photovoltaic power generation</b> <i>Asim Munir Abraiz Khattak Kashif Imran Abasin Ulasayar Nasim Ullah Azhar Ul Haq Adam Khan</i> <i>Journal of Engineering Research</i> , Pages 1-23 <b>Impact Factor:</b> 0.620   <b>Quartile:</b> 4   <b>Citations:</b> 5 <b>DOI:</b> https://doi.org/10.36909/jer.10425	2021

<p><b>Surface Recovery Investigation of Silicone Rubber Composites for Outdoor Electrical Insulation under Accelerated Temperature and Humidity</b></p> <p><i>M. Hassan Raz Abraiz Khattak Asghar Ali Safi Ullah Butt Bilal Iqbal Abasin Ulasayar Ahmad Aziz Alahmadi Nasim Ullah Adam Khan</i></p> <p><i>Polymers</i> , Volume 13(18), Article Number 3024</p> <p><b>Impact Factor:</b> 4.329   <b>Quartile:</b> 1   <b>Citations:</b> 8</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/polym13183024">https://doi.org/10.3390/polym13183024</a></p>	2021
<p><b>Hierarchical Control of Microgrid Using IoT and Machine Learning Based Islanding Detection</b></p> <p><i>Waleed Ali Abasin Ulasayar Mussawir UI Mehmood Abraiz Khattak Kashif Imran Haris Sheh Zad Shibli Nisar</i></p> <p><i>IEEE Access</i> , Volume 9, Pages 103019-103031</p> <p><b>Impact Factor:</b> 3.476   <b>Quartile:</b> 2   <b>Citations:</b> 56</p> <p><b>DOI:</b> 10.1109/ACCESS.2021.3098163</p>	2021
<p><b>Investigation of Hydrothermally Stressed Silicone Rubber/Silica Micro and Nanocomposite for the Coating of High Voltage Insulation Applications</b></p> <p><i>Faiza Abraiz Khattak Safi Ullah Butt Kashif Imran Abasin Ulasayar Asghar Ali Zuhair Subhani Khan Azhar Mahmood Nasim Ullah Ahmad Aziz Alahmadi Adam Khan</i></p> <p><i>Materials</i> , Volume 14(13), Article Number 3567</p> <p><b>Impact Factor:</b> 3.748   <b>Quartile:</b> 1   <b>Citations:</b> 12</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/ma14133567">https://doi.org/10.3390/ma14133567</a></p>	2021
<p><b>Optimal Day-Ahead Scheduling for Campus Microgrid by using MILP Approach</b></p> <p><i>Sharyar UI Hassan Hashmi Abasin Ulasayar Haris Sheh Zad Abraiz Khattak Kashif Imran</i></p> <p><i>Pakistan Journal of Engineering and Technology (PakJET)</i>, Volume 4, Number: 2, Pages 21-27</p> <p><b>Impact Factor:</b> N/A</p> <p><b>DOI:</b> <a href="https://doi.org/10.51846/vol4iss2pp21-27">https://doi.org/10.51846/vol4iss2pp21-27</a></p>	2021
<p><b>A Robust Tracking System for COVID-19 Like Pandemic Using Advanced Hybrid Technologies</b></p> <p><i>Shibli Nisar Muhammad Ali Zuhaib Abasin Ulasayar Muhammad Tariq</i></p> <p><i>Computing</i> , Pages 1-15</p> <p><b>Impact Factor:</b> 2.420   <b>Quartile:</b> 2   <b>Citations:</b> 9</p> <p><b>DOI:</b> <a href="https://doi.org/10.1007/s00607-021-00946-6">https://doi.org/10.1007/s00607-021-00946-6</a></p>	2021
<p><b>Multi-Stressed Nano and Micro-Silica/Silicone Rubber Composites with Improved Dielectric and High-Voltage Insulation Properties</b></p> <p><i>Faiza Abraiz Khattak Aqeel Ur Rehman Asghar Ali Azhar Mahmood Kashif Imran Abasin Ulasayar Haris Shehzad Nasim Ullah Adam Khan</i></p> <p><i>Polymers</i> , Volume 13(9), Article Number1400</p> <p><b>Impact Factor:</b> 4.329   <b>Quartile:</b> 1   <b>Citations:</b> 18</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/polym13091400">https://doi.org/10.3390/polym13091400</a></p>	2021
<p><b>A Privacy Preserved and Cost Efficient Control Scheme for Coronavirus Outbreak Using Call Data Record and Contact Tracing</b></p> <p><i>Shibli Nisar Syed Muhammad Ali Zuhaib Abasin Ulasayar Muhammad Tariq</i></p> <p><i>IEEE Consumer Electronics Magazine</i> , Volume 10, Issue 2, Pages 104-110</p> <p><b>Impact Factor:</b> 4.135   <b>Quartile:</b> 2   <b>Citations:</b> 13</p> <p><b>DOI:</b> 10.1109/MCE.2020.3038023</p>	2021
<p><b>Investigation of dielectric properties and methylene intactness under multiple environmental stresses for high voltage epoxy composites</b></p> <p><i>Abraiz Khattak Kashif Imran Faiza Asghar Ali Abasin Ulasayar Azhar UI Haq Muhammad Amin Adam Khan</i></p> <p><i>Materials Research Express</i> , Volume 7, Article Number 075304</p> <p><b>Impact Factor:</b> 1.620   <b>Quartile:</b> 4   <b>Citations:</b> 5</p> <p><b>DOI:</b> <a href="https://doi.org/10.1088/2053-1591/aba060">https://doi.org/10.1088/2053-1591/aba060</a></p>	2020
<p><b>Effects of Compression and Silica Addition on the Dielectric Properties of Epoxy Composites</b></p> <p><i>Abraiz Khattak Kashif Imran Asghar Ali Zuhair Subhani Khan abasin ulasayar Muhammad Amin Adam Khan Azhar UI Haq</i></p> <p><i>Arabian Journal for Science and Engineering</i> , Pages 1-10</p> <p><b>Impact Factor:</b> 2.334   <b>Quartile:</b> 3   <b>Citations:</b> 5</p> <p><b>DOI:</b> <a href="https://doi.org/10.1007/s13369-020-04686-1">https://doi.org/10.1007/s13369-020-04686-1</a></p>	2020
<p><b>Cloud Based IoT Solution for Fault Detection and Localization in Power Distribution Systems</b></p> <p><i>Mussawir UI Mehmood Abasin Ulasayar Abraiz Khattak Kashif Imran Haris Sheh Zad Shibli Nisar</i></p> <p><i>Energies</i> , Volume 13(11), Article Number 2686</p> <p><b>Impact Factor:</b> 3.004   <b>Quartile:</b> 3   <b>Citations:</b> 26</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/en13112686">https://doi.org/10.3390/en13112686</a></p>	2020

<b>Optimal Placement, Sizing and Coordination of FACTS Devices in Transmission Network Using Whale Optimization Algorithm</b> <i>Muhammad Nadeem Kashif Imran Abraiz Khattak Abasin Ulasyar</i> <i>Energies</i> , Vol 13, Issue 3, 753 <b>Impact Factor:</b> 3.004   <b>Quartile:</b> 3   <b>Citations:</b> 77 <b>DOI:</b> <a href="https://doi.org/10.3390/en13030753">https://doi.org/10.3390/en13030753</a>	2020
<b>Design and Analysis of a New Magneto Rheological Damper for Washing Machine</b> <i>Ismail Lazoglu Abasin Ulasyar</i> <i>Journal of Mechanical Science and Technology</i> , Volume 32, Issue 4, Pages 1549-1561 <b>Impact Factor:</b> 1.221   <b>Quartile:</b> 3   <b>Citations:</b> 33 <b>DOI:</b> 10.1007/s12206-018-0308-4	2018
<b>Conference Proceedings</b>	
<b>Multi-Step Forecasting of Global Horizontal Irradiance Using Long Short-Term Memory Network for Solving Economic Dispatch Problem</b> <i>Qizal Ashfaq Abasin Ulasyar Haris Sheh Zad Shibli Nisar Abraiz Khattak Kashif Imran</i> <i>2021 International Conference on Innovative Computing (ICIC)</i> , res.country(282,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICIC53490.2021.9693031	2021
<b>Performance Analysis of Droop Control with Virtual Impedance in Parallel Operation of Microgrid in Islanded Mode</b> <i>Muhammad Muzammil Farooqi Abasin Ulasyar Waleed Ali Haris Sheh Zad Abraiz Khattak</i> <i>2021 International Conference on Computing, Electronic and Electrical Engineering (ICE Cube)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICECube53880.2021.9628235	2021
<b>Design and Analysis of Synchronverter Based Virtual Inertia Control for Hybrid Power Plants</b> <i>Osama Bin Muzaffar Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran Shibli Nisar</i> <i>3rd International Conference on Sustainable Energy Technologies (ICSET 2021)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> <a href="http://uspcase.uetpeshawar.edu.pk/icset-2021/">http://uspcase.uetpeshawar.edu.pk/icset-2021/</a>	2021
<b>Intelligent load drop control based on fuzzy logic for under-frequency in islanding mode</b> <i>Muhammad Hassan Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran Shibli Nisar</i> <i>3rd International Conference on Sustainable Energy Technologies (ICSET 2021)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> <a href="http://uspcase.uetpeshawar.edu.pk/icset-paper-proceeding-2021/">http://uspcase.uetpeshawar.edu.pk/icset-paper-proceeding-2021/</a>	2021
<b>Performance Analysis Of Fuzzy Logic Based Grid Connected PV with integrated Battery Storage System</b> <i>Hafsa Ijaz Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran Mustafa Anwar</i> <i>International Conference &amp; Exposition on Modern Energy and Power Systems (ICMEPS2021)</i> , res.country(224,) <b>Citations:</b> N/A	2021
<b>DC Voltage Performance Analysis of a Hybrid Multiterminal HVDC Grid Under Abnormal Conditions with Topological Investigation on Hybrid Scheme</b> <i>Syed Tahir Shah Abraiz Khattak Kashif Imran Abasin Ulasyar Syed Qasim shah</i> <i>6th International Electrical Engineering Conference (IEEC 2021)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> Nil	2021
<b>Strategy to Detect, Quantify and Locate Power Theft in a Distribution Network</b> <i>Haider Ali Raza Kashif Imran Abraiz Khattak Abasin Ulasyar Arqam Ilyas</i> <i>2021 6 th International Electrical Engineering Conference (IEEC 2021)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> Not Available	2021
<b>Economic and Performance Analysis of PV System and Grid Supply for High Rise Building and Luxury Villa in Pakistan</b> <i>Taimoor Asghar Kashif Imran Abraiz Khattak Abasin Ulasyar Atif Naveed Khan</i> <i>2021 4th International Conference on Energy Conservation and Efficiency (ICECE)</i> , res.country(177,) <b>Citations:</b> N/A	2021

DOI: 10.1109/ICECE51984.2021.9406306	
<b>Impacts of High Penetration of Wind Power on Transmission System</b> <i>Rizwan Ali Kashif Imran Syed Ali Abbas Kazmi Atif Naveed Khan Abraiz Khattak Abasin Ulasyar</i> 2021 4th International Conference on Energy Conservation and Efficiency (ICECE), res.country(177,)	2021
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICECE51984.2021.9406282	
<b>Electrical Energy Management in Spinning Area of Textile Industry</b> <i>Muhammad Hassan Qaisar Abraiz Khattak Muhammad Bilal Kashif Imran Abasin Ulasyar</i> 2021 4th International Conference on Energy Conservation and Efficiency (ICECE), res.country(177,)	2021
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICECE51984.2021.9406279	
<b>Robust Model Predictive Voltage Control of Threephase Inverter with Output LC Filter</b> <i>Jibran Hashim Haris Sheh Zad Abasin Ulasyar Arslan Hameed</i> 2021 International Bhurban Conference on Applied Sciences and Technologies (IBCAST), res.country(177,)	2021
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/IBCAST51254.2021.9393177	
<b>Hour-Ahead Global Horizontal Irradiance Forecasting Using Long Short Term Memory Network</b> <i>Qizal Ashfaq Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran</i> 2020 IEEE 23rd International Multitopic Conference (INMIC), res.country(177,)	2021
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/INMIC50486.2020.9318154	
<b>IoT based Energy Efficient Smart Street Lighting Technique with Air Quality Monitoring</b> <i>Syed Najeeb Ali Kazmi Abasin Ulasyar Muhammad Faisal Nadeem Khan</i> 2020 14th International Conference on Open Source Systems and Technologies (ICOSST), res.country(177,)	2020
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICOSST51357.2020.9332982	
<b>Design of Fuzzy Controller for Non Isolated High Gain DC-DC Converter</b> <i>Saad Ahmad Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran</i> 2020 International Symposium on Recent Advances in Electrical Engineering & Computer Sciences (RAEE & CS), res.country(177,)	2020
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/RAECS50817.2020.9265833	
<b>Design and Analysis of Controller for Non Isolated High Gain DC-DC converter</b> <i>Kashif Imran Saad Ahmad Abasin Ulasyar Haris Sheh Zad Abraiz Khattak</i> 5th International Electrical Engineering Conference , res.country(177,)	2020
<b>Citations:</b> N/A <b>DOI:</b> <a href="https://www.researchgate.net/publication/342961648_Design_and_Analysis_of_Controller_for_Non_Isolated_High_Gain_DC-DC_converter">https://www.researchgate.net/publication/342961648_Design_and_Analysis_of_Controller_for_Non_Isolated_High_Gain_DC-DC_converter</a>	
<b>Robust Sliding Mode Control based Maximum Power Point Tracking of Solar Photovoltaic System</b> <i>Arslan Hameed Haris Sheh Zad Abasin Ulasyar Jibran Hashim</i> 3rd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)	2020
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/iCoMET48670.2020.9073886	
<b>Design of Linear Quadratic Regulator Controller for Sepic Converter</b> <i>Munib Ullah Abasin Ulasyar Haris Sheh Zad Abraiz Khattak</i> 15th International Conference on Emerging Technologies (ICET), res.country(177,)	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICET48972.2019.8994463	
<b>Solar PV Generation Forecast Model Based on the Most Effective Weather Parameters</b> <i>Adeel Khan Muhammad Asim Munir Abraiz Khattak Kashif Imran Abasin Ulasyar</i> 5th International Conference on Power Generation Systems and Renewable Energy Technologies, res.country(224,)	2019
<b>Citations:</b> N/A <b>DOI:</b> N/A	
<b>A Low Cost Internet of Things (LCIoT) Based System for Monitoring and Control of UPS System using Node-Red, CloudMQTT and IBM Bluemix</b> <i>Mussawir Ul Mehmood Waleed Ali Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Kashif Imran</i> 2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), res.country(177,)	2019

<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICECCE47252.2019.8940686	
<b>Robust Sliding Mode Position Control of Electro-Hydraulic Servo System</b> <i>Muhammad Jamshed Abbas Haris Sheh Zad Muhammad Awais Abasin Ulasyar</i> <i>1st International Conference on Electrical, Communication, and Computer Engineering (ICECCE), res.country(177,)</i>	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICECCE47252.2019.8940663	
<b>Low Cost Design of a Motor Characterization Test Bed for Control System Validation</b> <i>Muhammad Noman Akbar Muhammad Farooq Umar Abasin Ulasyar Haris Sheh Zad Abraiz Khattak Syed Muhammad Raza Kazmi</i> <i>1st International Conference on Electrical, Communication, and Computer Engineering (ICECCE), res.country(177,)</i>	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICECCE47252.2019.8940732	
<b>Investigation of Archimedean Screw Turbine for optimal power output by varying number of blades</b> <i>Abasin Ulasyar Adeel Khan Muhammad Asim Munir Abraiz Khattak Kashif Imran</i> <i>1st INTERNATIONAL CONFERENCE ON ELECTRICAL, COMMUNICATION AND COMPUTER ENGINEERING (ICECCE-2019), res.country(177,)</i>	2019
<b>Citations:</b> N/A <b>DOI:</b> N/A	
<b>Real-Time Simulation of Microgrid and Load Behavior Analysis Using FPGA</b> <i>Abasin Ulasyar Shehzar Shahzad Sheikh Saeed Iqbal Muhammad Kazim</i> <i>2019 International Conference on Computing, Mathematics and Engineering Technologies – iCoMET 2019, res.country(177,)</i>	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/icomet.2019.8673431	
<b>Intelligent Speed Controller Design for Brushless DC Motor</b> <i>Abasin Ulasyar Haris Sheh Zad Adil Zohaib</i> <i>2018 International Conference on Frontiers of Information Technology (FIT) , res.country(177,)</i>	2018
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/FIT.2018.00011	
<b>Robust Speed Controller Design for the Variable-Speed Wind Turbine Power System</b> <i>Abasin Ulasyar Haris Sheh Zad Adil Zohaib</i> <i>2018 International Symposium on Recent Advances in Electrical Engineering (RAEE) , res.country(177,)</i>	2018
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/RAEE.2018.8706908	
<b>Optimal Output Voltage Control of Solar Photovoltaic Power System</b> <i>Abasin Ulasyar Haris Sheh Zad Adil Zohaib</i> <i>2018 International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET) , res.country(177,)</i>	2018
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/PGSRET.2018.8686027	
<b>Adaptive control of self-balancing two-wheeled robot system based on online model estimation</b> <i>Abasin Ulasyar Haris Sheh Zad</i> <i>10th International Conference on Electrical and Electronics Engineering (ELECO), res.country(224,)</i>	2017
<b>Citations:</b> N/A <b>DOI:</b> <a href="https://ieeexplore.ieee.org/document/8266331">https://ieeexplore.ieee.org/document/8266331</a>	
<b>Adaptive Radial Basis Function Neural Network based Tracking Control of Van der Pol Oscillator</b> <i>Abasin Ulasyar Haris Sheh Zad Adil Zohaib Syed Shahzad Hussain</i> <i>2017 International Conference on Communication Technologies (ComTech), res.country(177,)</i>	2017
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/COMTECH.2017.8065758	
<b>Optimal Controller Design for Self-Balancing Two-Wheeled Robot System</b> <i>Abasin Ulasyar Haris Sheh Zad Adil Zohaib Syed Shahzad Hussain</i> <i>2016 International Conference on Frontiers of Information Technology (FIT), res.country(177,)</i>	2016
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<b>Robust Model Predictive position Control of direct drive electro-hydraulic servo system</b> <i>Abasin Ulasyar Haris Sheh Zad Adil Zohaib</i>	2016

2016 International Conference on Intelligent Systems Engineering (ICISE), res.country(177,)

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**Robust & optimal model predictive controller design for twin rotor MIMO system**

2015

Abasin Ulasyar Haris Sheh Zad

2015 9th International Conference on Electrical and Electronics Engineering (ELECO), res.country(224,)

Citations: N/A

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**Editorial Activities**

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**Mechanics Based Design of Structures and Machines**

2022

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2020

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