

## Wasi Haider Butt

Professor

College of Electrical & Mechanical Engineering

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**LinkedIn:** <https://www.linkedin.com/pub/dr-wasi-haider-butt/9/aab/194>



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## About

Dr. Wasi Haider Butt is working as Professor in the College of Electrical & Mechanical Engineering. Dr. Wasi Haider Butt has a PhD in Software Engineering. Dr. Wasi Haider Butt has published 111 research articles & conference papers having a citation count of 815, carried out 4 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Software Engineering</b> NUST, Islamabad , Pakistan	2009 - 2015
<b>MS in Software Engineering</b> NUST, Islamabad , Pakistan	2007 - 2009
<b>B.Sc (Hon) in Computer Sciences</b> Azad Jammu and Kashmir University , Pakistan	2002 - 2006

## Experience

<b>Professor</b> College of Electrical & Mechanical Engineering	2025- Present
<b>Associate Professor</b> College of Electrical & Mechanical Engineering	2021 - 2021
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2020 - 2021
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2018 - 2020
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2015 - 2018
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2015 - 2015
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2012 - 2015
<b>Lecturer</b> College of Electrical & Mechanical Engineering	2009 - 2012

## Awards

<b>Best Researcher 2018-19</b>	2019
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Research Projects

National Projects

<b>Strengthening of Quality education at Gilgit Baltistan by using digital platforms</b> Funding Agency: HEC Amount: PKR 720,000.00 Status: Completed	2021
<b>Intelligent Legal Adviser using Artificial Intelligence algorithms and NLP</b> Funding Agency: IGNITE Amount: PKR 11,240.00 Status: Completed	2019
<b>Generation of UPPAAL State chart Automata</b> Funding Agency: NESCOM Amount: PKR 100,000.00 Status: Completed	2019
<b>Management Information and Decision Support System for Monitoring and Evaluation of HEC Funded Projects</b> Funding Agency: HEC Amount: PKR 5,992,317.00 Status: Completed	2018

International Projects

Research Articles

<b>Examining AI-Powered ADHD Diagnosis: Current Trends, Key Challenges, and Future Directions in the Field</b> <i>Soyiba Jawed Ahmad Rauf Subhani Wasi Haider Butt Muhammad Usman Akram Qurat Ul Ain</i> <i>IEEE Access</i> , Volume 13, Pages 93148-93177 Impact Factor: 3.600   Quartile: 2 DOI: 10.1109/ACCESS.2025.3567427	2025
<b>The price of innovation: Decoding organizational stressors and strains in the lives of software professionals</b> <i>Wasi Haider Butt Usman Qamar Uzair Khaleeq Uz Zaman Sadia Khalid Uzair Rasheed</i> <i>Journal of Workplace Behavioral Health</i> , Pages 1-49 Impact Factor: 1.500   Quartile: 3 DOI: <a href="https://doi.org/10.1080/15555240.2025.2491418">https://doi.org/10.1080/15555240.2025.2491418</a>	2025
<b>Selecting Third-Party Libraries: The Web Developers' Perspective</b> <i>Mehreen Tabassum Wasi Haider Butt Abdul Wahab Muzaffar Saima Anwar Lashari</i> <i>International Journal of Software Engineering and Knowledge Engineering</i> , Pages 1-37 Impact Factor: 0.600   Quartile: 4 DOI: 10.1142/S0218194024500402	2024
<b>Transformer-based sensor failure prediction and classification framework for UAVs</b> <i>Muhammad Waqas Ahmad Muhammad Usman Akram Mashood Mohammad Mohsan Kashif Saghar Rashid Ahmad Wasi Haider Butt</i> <i>Expert Systems with Applications</i> , Volume: 248, Article Number: 123415 Impact Factor: 8.5   Quartile: 1   Citations: 20 DOI: 10.1016/j.eswa.2024.123415	2024
<b>A Machine Learning-Based Framework for Accurate and Early Diagnosis of Liver Diseases: A Comprehensive Study on Feature Selection, Data Imbalance, and Algorithmic Performance</b> <i>Attique Ur Rehman Wasi Haider Butt Tahir Muhammad Ali Sabeen Javaid Maram Fahaad Almufareh Mamoonah Humayun Hameedur Rahman Azka Mir Momina Shaheen</i> <i>International Journal of Intelligent Systems</i> , Pages 1-29 Impact Factor: 5.000   Quartile: 1   Citations: 7 DOI: <a href="https://doi.org/10.1155/2024/6111312">https://doi.org/10.1155/2024/6111312</a>	2024
<b>An IoT-enabled real-time dynamic scheduler for Flexible Job Shop Scheduling (FJSS) in an Industry 4.0 Based Manufacturing Execution System (MES 4.0)</b> <i>Anum Tariq Shoab Ahmed Khan Wasi Haider Butt Asim Javaid Tehmina Shehryar</i>	2024

IEEE Access , Volume 12, Pages 49653-49666	
<b>Impact Factor:</b> 3.4   <b>Quartile:</b> 2   <b>Citations:</b> 10	
<b>DOI:</b> 10.1109/ACCESS.2024.3384252	
<b>Ensemble effort estimation with metaheuristic hyperparameters and weight optimization for achieving accuracy</b>	2024
<i>Anum Yasmin Wasi Haider Butt Ali Daud</i>	
PLoS ONE , Volume 19, Issue 4, Article Number e0300296	
<b>Impact Factor:</b> 2.9   <b>Quartile:</b> 1   <b>Citations:</b> 8	
<b>DOI:</b> <a href="https://doi.org/10.1371/journal.pone.0300296">https://doi.org/10.1371/journal.pone.0300296</a>	
<b>An Enhanced Agile V-Model: Conformance to regulatory bodies and experiences from model's adoption to medical device development.</b>	2024
<i>Aliya Ashraf Khan Muhammad Usman Akram Wasi Haider Butt Mehreen Shirshar</i>	
Heliyon , Volume 10. Issue 6 Article Number: e26928	
<b>Impact Factor:</b> 3.4   <b>Quartile:</b> 1   <b>Citations:</b> 1	
<b>DOI:</b> 10.1016/j.heliyon.2024.e26928	
<b>Machine learning based software effort estimation using development-centric features for crowdsourcing platform</b>	2024
<i>Anum Yasmin Wasi Haider Butt Dr Ali Daud Ameen Banjar</i>	
Intelligent Data Analysis , Vol. 28, No. 1, Pages: 299-329	
<b>Impact Factor:</b> 0.9   <b>Quartile:</b> 4	
<b>DOI:</b> 10.3233/IDA-237366	
<b>A Systematic Review of Disaster Management Systems: Approaches, Challenges, and Future Directions</b>	2023
<i>Saad Mazhar Khan Imran Shafi Wasi Haider Butt Isabel De La Torre Díez Miguel Angel López Flores Juan Castanedo Galán Imran Ashraf</i>	
Land , Volume 12(8), Article Number 1514	
<b>Impact Factor:</b> 3.9   <b>Quartile:</b> 2   <b>Citations:</b> 68	
<b>DOI:</b> <a href="https://doi.org/10.3390/land12081514">https://doi.org/10.3390/land12081514</a>	
<b>A Retargetable Model-Driven Framework for the Development of Mobile User Interfaces</b>	2022
<i>Mehreen Khan Farooque Azam Fatima Samea Muhammad Waseem Anwar Muhammad Rashid Abdul Wahab Muzaffar Wasi Haider Butt</i>	
Journal of Circuits Systems and Computers , Volume 31, No. 1, Article Number 2250018 (30 pages)	
<b>Impact Factor:</b> 1.278   <b>Quartile:</b> 4   <b>Citations:</b> 4	
<b>DOI:</b> 10.1142/S0218126622500189	
<b>Need-Based and Optimized Health Insurance Package Using Clustering Algorithm</b>	2021
<i>Irum Matloob Brig. Shoab Ahmed Khan Farhan Hussain Wasi Haider Butt Rukaiya Rukaiya Fatima Khaliq</i>	
Applied Sciences , Volume 11, Issue 18, Article No. 8478	
<b>Impact Factor:</b> 2.679   <b>Quartile:</b> 2   <b>Citations:</b> 7	
<b>DOI:</b> 10.3390/app11188478	
<b>A Systematic Review on the Data Interoperability of Application Layer Protocols in Industrial IoT</b>	2021
<i>Farooque Azam Anam Amjad Muhammad Waseem Anwar Wasi Haider Butt</i>	
IEEE Access , Volume 9, Pages 96528-96545	
<b>Impact Factor:</b> 3.476   <b>Quartile:</b> 2   <b>Citations:</b> 49	
<b>DOI:</b> 10.1109/access.2021.3094763	
<b>Multi-objective regression test suite optimization using three variants of adaptive neuro fuzzy inference system</b>	2020
<i>Ayesha Kiran Wasi Haider Butt Arsalan Shaukat Muhammad Umar Farooq Urooj Fatima Farooque Azam Zeeshan Anwar</i>	
PloS One , Volume 15(12), Article Number e0242708	
<b>Impact Factor:</b> 3.240   <b>Quartile:</b> 2   <b>Citations:</b> 9	
<b>DOI:</b> <a href="https://doi.org/10.1371/journal.pone.0242708">https://doi.org/10.1371/journal.pone.0242708</a>	
<b>A Model-Driven Alarms Framework (MAF) With Mobile Clients Support for Wide-Ranging Industrial Control Systems</b>	2020
<i>Farooque Azam Muhammad Waseem Anwar Muhammad Nouman Zafar Abdul Wahab Muzaffar Wasi Haider Butt Hanny Tufail</i>	
IEEE Access , Volume 8, Pages 174279-174304	
<b>Impact Factor:</b> 3.367   <b>Quartile:</b> 2   <b>Citations:</b> 3	
<b>DOI:</b> Digital Object Identifier 10.1109/ACCESS.2020.3025933	
<b>A model-driven framework for data-driven applications in serverless cloud computing</b>	2020

<p><i>Fatima Samea Farooque Azam Muhammad Rashid Muhammad Waseem Anwar Wasi Haider Butt Abdul Wahab Muzaffar</i>  <i>PLoS ONE</i> , Volume 15(8), Article Number e0237317</p> <p><b>Impact Factor:</b> 3.240   <b>Quartile:</b> 2   <b>Citations:</b> 21</p> <p><b>DOI:</b> <a href="https://doi.org/10.1371/journal.pone.0237317">https://doi.org/10.1371/journal.pone.0237317</a></p>		
<p><b>A Unified Model-Based Framework for the Simplified Execution of Static and Dynamic Assertion-Based Verification</b></p> <p><i>Muhammad Waseem Anwar Muhammad Rashid Farooque Azam Aamer Naeem Muhammad Kashif Wasi Haider Butt</i>  <i>IEEE Access</i> , Volume 8, Pages 104407-104431</p> <p><b>Impact Factor:</b> 3.367   <b>Quartile:</b> 2   <b>Citations:</b> 37</p> <p><b>DOI:</b> 10.1109/ACCESS.2020.2999544</p>		2020
<p><b>An Integrated Approach for Spatio-Temporal Cholera Disease Hotspot Relation Mining for Public Health Management in Punjab, Pakistan</b></p> <p><i>Fatima Khaliq Shoaib Ahmad Khan Wasi Haider Butt Irum Matloob</i>  <i>International Journal of Environmental Research and Public Health</i>, Volume 17, Issue 11, Article Number 3763</p> <p><b>Impact Factor:</b> 3.390   <b>Quartile:</b> 1   <b>Citations:</b> 8</p> <p><b>DOI:</b> <a href="https://doi.org/10.3390/ijerph17113763">https://doi.org/10.3390/ijerph17113763</a></p>		2020
<p><b>A model-driven mobile HMI framework (MMHF) for industrial control systems</b></p> <p><i>Iqra Qasim MUHAMMAD WASEEM ANWAR Farooque Azam Hanny Tufail Wasi Haider Butt Muhammad Noman Zafar</i>  <i>IEEE Access</i> , Volume 8, Pages 10827-10846</p> <p><b>Impact Factor:</b> 3.367   <b>Quartile:</b> 2   <b>Citations:</b> 25</p> <p><b>DOI:</b> 10.1109/ACCESS.2020.2965259</p>		2020
<p><b>A Novel Framework to Automatically Generate IFML Models From Plain Text Requirements</b></p> <p><i>Wasi Haider Butt Maryum Hamdani Muhammad Waseem Anwar Imran Ahsan Farooque Azam Mudassar Adeel Ahmed</i>  <i>IEEE Access</i> , Volume 7, Pages 183489-183513</p> <p><b>Impact Factor:</b> 3.745   <b>Quartile:</b> 1   <b>Citations:</b> 4</p> <p><b>DOI:</b> 10.1109/ACCESS.2019.2959813</p>		2019
<p><b>A model-driven framework for design and verification of embedded systems through SystemVerilog</b></p> <p><i>Muhammad Waseem Anwar Muhammad Rashid Farooque Azam Muhammad Kashif Wasi Haider Butt</i>  <i>Design Automation for Embedded Systems</i>, Volume 23. Issue 3-4. Pages 179-223</p> <p><b>Impact Factor:</b> 2.767   <b>Quartile:</b> 1   <b>Citations:</b> 52</p> <p><b>DOI:</b> 10.1007/s10617-019-09229-y</p>		2019
<p><b>A Model Driven Reverse Engineering Framework for Generating High Level UML Models From Java Source Code</b></p> <p><i>UMAIR SABIR FAROOQUE AZAM SAMI UL HAQ MUHAMMAD WASEEM ANWAR WASI HAIDER BUTT ANAM AMJAD</i>  <i>IEEE Access</i> , Volume 7 Pages 158931-158950</p> <p><b>Impact Factor:</b> 3.745   <b>Quartile:</b> 1   <b>Citations:</b> 28</p> <p><b>DOI:</b> 10.1109/ACCESS.2019.2950884</p>		2019
<p><b>A Novel Framework to Automatically Generate Executable Web Services from BPMN Models</b></p> <p><i>Iqra Zafar Muhammad Waseem Anwar Bilal Maqbool Farooque Azam Wasi Haider Butt Aiman Nazir</i>  <i>IEEE ACCESS</i> , Volume 7, Pages 93653-93677</p> <p><b>Impact Factor:</b> 3.745   <b>Quartile:</b> 1   <b>Citations:</b> 16</p> <p><b>DOI:</b> 10.1109/ACCESS.2019.2927785</p>		2019
<p><b>A Comprehensive Investigation of Modern Test Suite Optimization Trends, Tools and Techniques</b></p> <p><i>Ayesha Kiran Wasi Haider Butt Muhammad Waseem Anwar Bilal Maqbool Farooque Azam</i>  <i>IEEE Access</i> , Volume 7, Pages 89093-89117</p> <p><b>Impact Factor:</b> 3.745   <b>Quartile:</b> 1   <b>Citations:</b> 26</p> <p><b>DOI:</b> 10.1109/ACCESS.2019.2926384</p>		2019
<p><b>Automated Model-Based Test Case Generation for Web User Interfaces (WUI) From Interaction Flow Modeling Language (IFML) Models</b></p> <p><i>Farooque Azam Nazish Yousaf Wasi Haider Butt Muhammad Waseem Anwar Muhammad Rashid</i>  <i>IEEE ACCESS</i>, Volume 7, Pages 67331-67354</p> <p><b>Impact Factor:</b> 3.745   <b>Quartile:</b> 1   <b>Citations:</b> 29</p> <p><b>DOI:</b> 10.1109/ACCESS.2019.2917674</p>		2019
<p><b>A Systematic Review on Code Clone Detection</b></p> <p><i>Qurat Ul Ain Wasi Haider Butt Muhammad Waseem Anwar Farooque Azam Bilal Maqbool</i></p>		2019

<i>IEEE Access</i> , Volume 7, Pages 86121-86144	
<b>Impact Factor:</b> 3.745   <b>Quartile:</b> 1   <b>Citations:</b> 131	
<b>DOI:</b> 10.1109/ACCESS.2019.2918202	
<b>Automated glaucoma detection using retinal layers segmentation and optic cup-to-disc ratio in optical coherence tomography images</b>	2019
<i>Sajid Gul Khawaja Ubaid Ullah Yasin Wasi Haider Butt Aneeqa Ramzan Muhammad Usman Akram Arsalan Shaukat IET Image Processing</i> , Volume 13, Issue 3, Pages 409-420	
<b>Impact Factor:</b> 1.995   <b>Quartile:</b> 3   <b>Citations:</b> 14	
<b>DOI:</b> 10.1049/iet-ipr.2018.5396	
<b>UMLPACE for Modeling and Verification of Complex Business Requirements in Event-Driven Process Chain (EPC)</b>	2018
<i>Wasi Haider Butt Muhammad Rashid Aamir Naeem Anam Amjad Brig. Farooque Azam Muhammad Waseem Anwar IEEE Access</i> , NULL	
<b>Impact Factor:</b> 4.098   <b>Quartile:</b> 1   <b>Citations:</b> 10	
<b>DOI:</b> 10.1109/ACCESS.2018.2883610	
<b>Analysis of PCG signals using quality assessment and homomorphic filters for localization and classification of heart sounds</b>	2018
<i>Qurat-ul-Ain Mubarak Muhammad Usman Akram Arsalan Shaukat Farhan Hussain Sajid Gul Khawaja Wasi Haider Butt Computer Methods and Programs in Biomedicine</i> , Volume: 164, Pages 143-157	
<b>Impact Factor:</b> 3.424   <b>Quartile:</b> 1   <b>Citations:</b> 59	
<b>DOI:</b> 10.1016/j.cmpb.2018.07.006	
<b>Event-Driven Process Chain for Modeling and Verification of Business Requirements?A Systematic Literature Review</b>	2018
<i>Anam Amjad Farooque Azam Muhammad Waseem Anwar Wasi Haider Butt Muhammad Rashid IEEE Access</i> , Volume 6, Pages 9027-9048	
<b>Impact Factor:</b> 4.098   <b>Quartile:</b> 1   <b>Citations:</b> 46	
<b>DOI:</b> 10.1109/ACCESS.2018.2791666	
<b>Fully automated diagnosis of papilledema through robust extraction of vascular patterns and ocular pathology from fundus photographs</b>	2017
<i>Wasi Haider Butt KHUSH NASEEB FATIMA TAIMUR HASSAN M. USMAN AKRAM MAHMOOD AKHTAR Biomedical Optics Express</i> , Volume 8, Issue 2, Pages 1005-1024	
<b>Impact Factor:</b> 3.482   <b>Quartile:</b> 1   <b>Citations:</b> 34	
<b>DOI:</b> 10.1364/BOE.8.001005	
<b>Intelligent framework for diagnosis of frozen shoulder using cross sectional survey and case studies</b>	2016
<i>M. Usman Akram Humaira Batool Fouzia Batool Wasi Haider Butt SpringerPlus</i> , Volume 5	
<b>Impact Factor:</b> 1.130   <b>Quartile:</b> 2   <b>Citations:</b> 2	
<b>DOI:</b> 10.1186/s40064-016-3537-y	
<b>Inverse correlation between heart rate variability and heart rate demonstrated by linear and nonlinear analysis</b>	2016
<i>Syed Zaki Hassan Kazmi Henggui Zhang Wajid Aziz Oliver Monfredi Syed Ali Abbas Saeed Arif Shah Syeda Sobia Hassan Kazmi Wasi Haider Butt PLoS ONE</i> , Volume 11, Issue 6, Article Number e0157557	
<b>Impact Factor:</b> 2.806   <b>Quartile:</b> 1   <b>Citations:</b> 78	
<b>DOI:</b> 10.1371/journal.pone.0157557	
<b>Covert Network Analysis for Key Player Detection and Event Prediction using a Hybrid Classifier</b>	2014
<i>Wasi Haider Butt M. Usman Akram Shoab Ahmed Khan Muhammad Younas Javed Scientific World Journal</i> , Volume 2014, Article ID 615431, 13 pages	
<b>Impact Factor:</b> 0   <b>Citations:</b> 5	
<b>DOI:</b> 10.1155/2014/615431	
<b>Hidden Members and Key Players Detection in Covert Networks Using Multiple Heterogeneous Layers</b>	2013
<i>Wasi Haider Butt Usman Qamar Shoab A. Khan Journal of Industrial and Intelligent Information</i> , Vol. 2, Issue No. 2, Pages 142-146	
<b>Impact Factor:</b> 0	
<b>DOI:</b> 10.12720/jiii.2.2.142-146	
<b>A Two Dimensional Approach to Back and Forth Software Process Model</b>	2010

Impact Factor: 0  
DOI: -

An Efficient SJRR CPU Scheduling Algorithm

2010

Saeeda Bibi Farooque Azam Sameera Amjad Wasi Haider Butt Hina Gul Rashid Ahmed Yasir Chaudhry  
International Journal of Computer Science and Information Security, Vol. 8, No. 2

Impact Factor: 0  
DOI: -

Conference Proceedings

HAUS: A Hybrid Attention-UNet framework for enhanced skin lesion Segmentation

2025

Nazish Yousaf Wasi Haider Butt Javeria Amin  
12th International Conference on Electrical and Electronics Engineering , res.country(224,)

Citations: N/A  
DOI: [https://www.iceee.org/iceee\\_cfp.pdf](https://www.iceee.org/iceee_cfp.pdf)

Code Re-use Recommendation Based on Software Requirements Using Natural Language Processing in Python

2024

Hareem Farooqi Wasi Haider Butt Obaid Ullah Khan  
13th International Conference on Computer Technologies and Development (ICCTD), res.country(231,)

Citations: N/A  
DOI: Nil

Classification of Fetal Cardiac Arrhythmia Using Heart Rate Variability and Machine Learning

2024

Muhammad Arslan Shahid Arslan Shaukat Muhammad Usman Akram Wasi Haider Butt  
2024 5th International Conference on Advancements in Computational Sciences (ICACS), res.country(177,)

Citations: N/A  
DOI: 10.1109/ICACS60934.2024.10473305

Automated White Box Test Case Generation for Statement Coverage Using U-NSGA-III

2023

Mehwish Naz Zaeem Anwaar Wasi Haider Butt  
17th International Conference on Open Source Systems and Technologies (ICOSST) , res.country(177,)

Citations: N/A  
DOI: 10.1109/ICOSST60641.2023.10414201

A Systematic Literature Review of Latest Cloud Forensic Frameworks, Tools and Challenges

2023

Ummer Farooq Arsalan Shaukat Wasi Haider Butt Ali Hassan  
2nd International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering res.country(177,)

Citations: N/A  
DOI: 10.1109/ETECTE59617.2023.10396682

A Novel Model-Driven Framework for Performance Testing of Service-Oriented Architecture

2023

Ibrahim Khalil Farooque Azam Wasi Haider Butt Muhammad Waseem Anwar Yawar Rasheed Israr Ahmad  
International Bhurban Conference on Applied Sciences & Technology, IBCAST, res.country(177,)

Citations: N/A  
DOI: <https://doi.org/10.1109/IBCAST59916.2023.10712852>

A Systematic Review of Approaches for Reviewing Security-Related Aspects in Agile Requirements Specification of Web Applications

2023

Aqsa Munir Mohammed Assiri Saba Naveed Alam Muzna Khan Wasi Haider Butt Mamoon Humayun  
2023 Congress in Computer Science, Computer Engineering, and Applied Computing, CSCE 2023, res.country(233,)

Citations: N/A  
DOI: 10.1109/CSCE60160.2023.00119

Towards Modeling Functional Requirements From Tacit Knowledge

2023

Rameen Jafar Maram Fahaad Almufareh Sundas Ashraf Bushra Khan Wasi Haider Butt Mamoon Humayun  
2023 Congress in Computer Science, Computer Engineering, and Applied Computing, CSCE 2023, res.country(233,)

Citations: N/A  
DOI: 10.1109/CSCE60160.2023.00120

Software Effort Estimation with Metaheuristic Optimized Ensemble for Software Crowdsourcing

2023

Anum Yasmin Wasi Haider Butt

16th IADIS Information Systems 2023 , res.country(183,)	
<b>Citations:</b> N/A	
<b>DOI:</b> ISBN: 978-989-8704-48-1	
<b>Management of Code Reviewer Recommendation using Optimization Algorithm, NSGA-III</b>	2023
<i>Zaeem Anwaar Wasi Haider Butt</i>	
16th IADIS Information Systems 2023, res.country(183,)	
<b>Citations:</b> N/A	
<b>DOI:</b> ISBN: 978-989-8704-48-1	
<b>Common Problems in Software Requirement Engineering Process: An Overview of Pakistani Software Industry</b>	2023
<i>Sadia Khalid Uzair Rasheed Mishal Muneer Wasi Haider Butt Rabia Mehmood Usman Qamar</i>	
2023 4th International Conference on Advancements in Computational Sciences, ICACS 2023, res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICACS55311.2023.10089703	
<b>Relationship between Organization's Physical and Psychological Environment and Employees' Mental Satisfaction: An Empirical Analysis of Employee Turnover in Software Industry</b>	2022
<i>Sadia Khalid Usman Qamar Uzair Rasheed Wasi Haider Butt</i>	
2022 16th International Conference on Open Source Systems and Technologies (ICOSST), res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICOSST57195.2022.10016849	
<b>A Lecture Centric Automated Distractor Generation for Post-Graduate Software Engineering Courses</b>	2022
<i>Rudeema Chughtai Farooque Azam Dr Wasi Haider Butt Dr Umar Farooq Muhammad Waseem Anwar</i>	
2022 International Conference on Frontiers of Information Technology, FIT 2022, res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/FIT57066.2022.00028	
<b>Investigation of Latest CASE Tools for Database Engineering: A Systematic Literature Review</b>	2022
<i>Nazish Yousaf Madeha Arif Misbah Mehboob Awan Wasi Haider Butt</i>	
2022 International Conference on Frontiers of Information Technology, FIT 2022, res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/FIT57066.2022.00012	
<b>The State of Practices in Requirement Elicitation: An Improved Methodology for Pak Software Industry</b>	2022
<i>Inam Ul Haq Wasi Haider Butt</i>	
2022 17th International Conference on Emerging Technologies, ICET 2022, res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICET56601.2022.10004655	
<b>Systematic Literature Review on Requirement Management Tools</b>	2022
<i>Inam ul Haq Waseem Abbas Wasi Haider Butt</i>	
2022 International Conference on Emerging Trends in Smart Technologies (ICETST), res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICETST55735.2022.9922932	
<b>Seamless Runtime Transformations from Natural Language to Formal Methods - A usecase of Z-Notation</b>	2022
<i>Misbah Mehboob Awan Wasi Haider Butt MuhammadWaseemAnwar Farooque Azam</i>	
2022 17th Annual System of Systems Engineering Conference (SOSE), res.country(233,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/SOSE55472.2022.9812644	
<b>Machine Learning based Theoretical Framework for Failure Prediction, Detection, and Correction of Mission-Critical Flight Software</b>	2022
<i>Muhammad Waqas Ahmad Muhammad Usman Akram Kashif Saghar Wasi Haider Butt Rashid Ahmad Ali Hassan</i>	
2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 10.1109/ICoDT255437.2022.9787424	
<b>An enhanced agile-V model for system engineering in complex medical device development</b>	2022
<i>Aliya Ashraf Muhammad Usman Akram Anum Abdul Salam Wasi Haider Butt</i>	
2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)	

<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICoDT255437.2022.9787446	
<b>A Novel Natural Language Processing approach to automatically Visualize Entity-Relationship Model from Initial Software Requirements</b> <i>Wasi Haider Butt Imran Ahsan Mudassar Adeel Ahmad Usman Qamar</i> 2021 <i>International Conference on Communication Technologies (ComTech)</i> , res.country(177,)	2021
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ComTech52583.2021.9616949	
<b>A Novel Model Driven Framework for Image Enhancement and Object Recognition</b> <i>Wasi Haider Butt Yawar Rasheed Muhammad Abbas Muhammad Waseem Anwar Urooj Fatima</i> <i>International Conference on Information and Software Technologies, ICIST 2020</i> , res.country(132,)	2020
<b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-030-59506-7_2	
<b>A Systematic Literature Review on Factors Impacting Agile Adaptation in Global Software Development</b> <i>Areebah Altaf Urooj Fatima Wasi Haider Butt Muhammad Waseem Anwar Maryum Hamdani</i> <i>The 7th International Conference on Computer and Communications Management</i> , res.country(217,)	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1145/3348445.3348463	
<b>Towards the selection of Optimum Requirements Prioritization Technique: A Comparative Analysis</b> <i>Hanny Tufail Iqra Qasim Muhammad Faisal Masood Sara Tanvir Wasi Haider Butt</i> 2019 <i>5th International Conference on Information Management (ICIM)</i> , res.country(231,)	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/INFOMAN.2019.8714709	
<b>Automatic Detection of Ambiguous Software Requirements: An Insight</b> <i>Muhammad Qasim Riaz Wasi Haider Butt Saad Rehman</i> 2019 <i>5th International Conference on Information Management (ICIM)</i> , res.country(231,)	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/INFOMAN.2019.8714682	
<b>The Applications of Model Driven Architecture (MDA) in Wireless Sensor Networks (WSN) - Techniques and Tools</b> <i>Muhammad Waseem Anwar Muazzam A. Khan Wasi Haider Butt Farooque Azam</i> <i>Future of Information and Communication Conference FICC 2019</i> , res.country(233,)	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-030-12388-8_2	
<b>Multi-Label Fake News Detection using Multi-layered Supervised Learning</b> <i>Tayyaba Rasool Wasi Haider Butt Arslan Shaukat Muhammad Usman Akram</i> 2019 <i>11th International Conference on Computer and Automation Engineering</i> , res.country(13,)	2019
<b>Citations:</b> N/A <b>DOI:</b> 10.1145/3313991.3314008	
<b>A Systematic Literature Review: Software Requirements Prioritization Techniques</b> <i>Muhammad Sufian Zirak Khan Saad Rehman Wasi Haider Butt</i> 2018 <i>International Conference on Frontiers of Information Technology (FIT)</i> , res.country(177,)	2018
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/FIT.2018.00014	
<b>A Framework for User Characterization based on Tweets Using Machine Learning Algorithms</b> <i>Kinza Zahra Farooque Azam Wasi Haider Butt Fauqia Ilyas</i> <i>VII International Conference on Network, Communication and Computing</i> , res.country(227,)	2018
<b>Citations:</b> N/A <b>DOI:</b> 10.1145/3301326.3301373	
<b>A Novel Method for Inferring Person-to-person Relationship Using Wi-Fi</b> <i>Fauqia Ilyas1 Farooque Azam Wasi Haider Butt Kinza Zahra</i> <i>VII International Conference on Network, Communication and Computing</i> , res.country(227,)	2018
<b>Citations:</b> N/A <b>DOI:</b> 10.1145/3301326.3301372	



<b>A Comparison of Modern Localization Techniques in Wireless Sensor Networks (WSNs)</b> <i>Maryum Hamdani Usman Qamar Wasi Haider Butt Fatima Khaliq Saad Rehman</i> <i>Future Technologies Conference (FTC) 2018</i> , res.country(38,) <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-030-02683-7_38	2018
<b>Business Process Models to Web Services Generation:A Systematic Literature Review</b> <i>Farooque Azam Iqra Zafar Muhammad Waseem Anwar Wasi Haider Butt Bilal Maqbool Aiman Khan Nazir</i> <i>IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)</i> , res.country(38,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/IEMCON.2018.8615096	2018
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<b>A Systematic Review on Social Network Analysis: Tools, Algorithms and Frameworks</b> <i>Wajeeha Aslam Wasi Haider Butt Muhammad Waseem Anwar</i> <i>2018 International Conference on Computing and Big Data ICCBD '18</i> , res.country(233,) <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3277104.3277112	2018
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<b>A Comprehensive Investigation of Formal System Verification Tools and Approaches</b> <i>Nazish Yousaf Muhammad Waseem Anwar Farooque Azam Wasi Haider Butt</i> <i>IEEE Intelligent Systems Conference IntelliSys 2018</i> , res.country(231,) <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-030-01057-7_94	2018
<b>A Comprehensive Investigation of BPMN Models Generation from Textual Requirements?Techniques, Tools and Trends</b> <i>Bilal Maqbool Farooque Azam Muhammad Waseem Anwar Aiman Khan Nazir Wasi Haider Butt Jahan Zeb Iqra Zafar Zuneera Umair</i> <i>9th International Conference on Information Science and Applications ICISA 2018</i> , res.country(48,) <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-981-13-1056-0_54	2018
<b>User Identification on Social Networks Through Text Mining Techniques: A Systematic Literature Review</b> <i>Farooque Azam Wasi Haider Butt Fauqia Ilyas Kinza Zahra</i> <i>International Conference on Information Science and Applications</i> , res.country(48,) <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-981-13-1056-0	2018
<b>Inferring Social Relationships Through Network: A Systematic Literature Review</b> <i>Fauqia Ilyas Farooque Azam Wasi Haider Butt Kinza Zahra</i> <i>International Conference on Information Science and Applications</i> , res.country(48,) <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-981-13-1056-0	2018
<b>ASIFT based recognition of fixed shape moving objects and tracking via modified particle filters</b> <i>Haris Masood Saad Rehman Aimal Khan Wasi Haider Rupert Young Phil Birch Mohammad Alam</i> <i>Pattern Recognition and Tracking XXIX</i> , res.country(233,) 	2018

<b>Citations:</b> N/A <b>DOI:</b> 10.1117/12.2304699	
<b>A Systematic Review of Adaptive and Responsive Design Approaches for World Wide Web</b> <i>Nazish Yousaf Wasi Haider Butt Farooque Azam Muhammad Waseem Anwar</i> <i>Future of Information and Communication Conference 2018</i> , res.country(197,)	2018
<b>Citations:</b> N/A <b>DOI:</b> <a href="https://link.springer.com/chapter/10.1007/978-3-030-03405-4_50">https://link.springer.com/chapter/10.1007/978-3-030-03405-4_50</a>	
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<b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICOMET.2018.8346347	
<b>Survey of Software Development Effort Estimation Techniques</b> <i>Ayesha Saeed Wasi Haider Butt Farwa Kazmi Madeha Arif</i> <i>Proceedings of the 2018 7th International Conference on Software and Computer Applications</i> , res.country(157,)	2018
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<b>A Systematic Literature Review on Interaction Flow Modeling Language (IFML)</b> <i>Maryum Hamdani Wasi Haider Butt Muhammad Waseem Anwar Farooque Azam</i> <i>Proceedings of the 2018 2nd International Conference on Management Engineering, Software Engineering and Service Sciences</i> , res.country(48,)	2018
<b>Citations:</b> N/A <b>DOI:</b> 10.1145/3180374.3181333	
<b>Evaluation of Role Detection Approaches in Terrorist Networks</b> <i>Farwa Kazmi Wasi Haider Butt Ayesha Saeed</i> <i>Proceedings of the 2018 2nd International Conference on Management Engineering, Software Engineering and Service Sciences</i> , res.country(48,)	2018
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<b>Evaluation of clustering algorithms for wireless sensor and actor networks</b> <i>Ayesha Saeed Wasi Haider Butt Farwa Kazmi Muazzam A. Khan</i> <i>2018 15th International Bhurban Conference on Applied Sciences and Technology (IBCAST)</i> , res.country(177,)	2018
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<b>Citations:</b> N/A <b>DOI:</b> 10.1109/FIT.2017.00019	
<b>Creating Domain Non-functional Requirements Software Product Line Engineering Using Model Transformations</b> <i>Fatima Khaliq Wasi Haider Butt Shoab Ahmad Khan</i> <i>International Conference on Frontiers of Information Technology (FIT)</i> , res.country(177,)	2017
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<b>Success and Failure Factors in Agile Development</b> <i>Maryum Hamdani Wasi Haider Butt</i> <i>2017 International Conference on Computational Science and Computational Intelligence (CSCI)</i> , res.country(233,)	2017
<b>Citations:</b> N/A <b>DOI:</b> <a href="https://americancse.org/events/csci2017/schedules/dec_16_schedule">https://americancse.org/events/csci2017/schedules/dec_16_schedule</a>	
<b>Dataset Designing of Software Architectures Styles for Analysis through Data Mining Clustering Algorithms</b> <i>Qadeem Khan Dr. Usman Qamar Dr. Wasi Haider Butt Dr. Saad Rehman</i> <i>IEEE Intelligent Systems Conference</i> , res.country(231,)	2017
<b>Citations:</b> N/A <b>DOI:</b> 10.1109/IntelliSys.2017.8324325	

<b>Botnet Traffic Analysis Using Flow Graphs</b> <i>Wahid Hussain Nazar Abbas Saqib Muazzam A. Khan Wasi Haider Butt</i> <i>6th International Conference on Bioinformatics and Biomedical Science ICBBS '17, res.country(197,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3121138.3121184	2017
<b>Botnet Traffic Analysis using Flow Graphs</b> <i>Wahid Hussain Nazar Abbas Saqib Muazzam A. Khan Wasi Haider Butt</i> <i>International Conference on Biometric and Forensic Engineering, res.country(197,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3121138.3121184	2017
<b>Verification of Event-driven Process Chain with Timed Automata and Time Petri Nets</b> <i>Anam Amjad Farooque Azam Muhammad Waseem Anwar Wasi Haider Butt</i> <i>9th IEEE GCC Conference and Exhibition, res.country(23,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/IEEGCC.2017.8448053	2017
<b>A Comprehensive Investigation of Natural Language Processing Techniques and Tools to Generate Automated Test Cases</b> <i>Imran Ahsan Wasi Haider Butt Mudassar Adeel Ahmed Muhammad Waseem Anwar</i> <i>Second International Conference on Internet of things, Data and Cloud Computing, res.country(231,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3018896.3036375	2017
<b>Covert Network Analysis to Detect Key Players using Correlation and Social Network Analysis</b> <i>Ejaz Farooq Shoab A.Khan Wasi Haider Butt</i> <i>2nd International Conference on Internet of Things, Data and Cloud Computing, res.country(231,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3018896.3025142	2017
<b>The Applications of Natural Language Processing (NLP) for Software Requirement Engineering – A Systematic Literature Review</b> <i>Farhana Nazir Wasi Haider Butt Muhammad Waseem Anwar Muazzam A. Khan Khattak</i> <i>International Conference on Information Science and Applications, res.country(48,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-981-10-4154-9_56	2017
<b>Exploring the Ensemble of Classifiers for Sentimental Analysis: A Systematic Literature Review</b> <i>Ali Athar Wasi Haider Butt Muhammad Waseem Anwar Muhammad Latif Farooque Azam</i> <i>9th International Conference on Machine Learning and Computing, res.country(197,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3055635.3056601	2017
<b>Implementation and Evaluation of Optimized Algorithm for Software Architectures Analysis through Unsupervised Learning (Clustering)</b> <i>Qadeem Khan Dr. Usman Akram Wasi Haider Butt Saad Rehman</i> <i>17th International Conference on Sciences and Techniques of Automatic Control and Computer Engineering (STA), res.country(221,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/STA.2016.7952038	2016
<b>A Survey on Current Requirement Process Practices in Software Companies and Requirement Process Problems</b> <i>Fauqia Ilyas Kinza Zahra Nadia Ambreen Wasi Haider Butt</i> <i>2016 International Conference on Computational Science and Computational Intelligence (CSCI), res.country(233,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/CSCI.2016.0240	2016
<b>HL7 FHIR Compliant Data Access Model for Maternal Health Information System</b> <i>Saadia Ismail Majed Alshamari Usman Qamar Wasi Haider Butt Khalid Latif Hafiz Farooq Ahmad</i> <i>IEEE 16th International Conference on Bioinformatics and Bioengineering, res.country(227,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/BIBE.2016.9	2016
<b>A Novel Hybrid Classifiers based Model for Mining in Neuro-imaging</b>	2016

<p><i>A.B.N. Alvi Usman Qamar Abdul Wahab Muzaffar Wasi Haider Butt</i>  <i>International Conference on Internet of things and Cloud Computing</i>, res.country(231,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> 10.1145/2896387.2896398</p>	
<p><b>Software Architecture of a Mobile Robot</b></p> <p><i>Abdul Wahab Muzaffar Shumyla Rasheed Mir Muhammad Latif Wasi Haider Butt Farooque Azam</i>  <i>2015 International Conference on Computational Science and Computational Intelligence (CSCI)</i>, res.country(233,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> 10.1109/CSCI.2015.185</p>	2015
<p><b>Impact of Refactoring on Code Quality by Using Graph Theory: An Empirical Evaluation</b></p> <p><i>Anam Shahjahan Wasi Haider Butt Aisha Zafar Ahmad</i>  <i>2015 SAI Intelligent Systems Conference (IntelliSys)</i>, res.country(231,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> 10.1109/IntelliSys.2015.7361201</p>	2015
<p><b>Detecting Changes in Context using Time Series Analysis of Social Network</b></p> <p><i>Kajal Nusratullah Prof. Dr. Asadullah Shah Prof. Dr. Shoab Ahmad Khan Wasi Haider Butt</i>  <i>2015 SAI Intelligent Systems Conference (IntelliSys)</i>, res.country(231,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> 10.1109/IntelliSys.2015.7361265</p>	2015
<p><b>Influence of Key Player Detection and Removal on Efficiency and Performance of Covert Networks using Social Network Analysis</b></p> <p><i>Aisha Zafar Ahmad Anam Shahjahan Wasi Haider Butt Usman Qamar</i>  <i>International Conference on Recent Advances in Computer Systems</i> , res.country(233,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> 10.2991/racs-15.2016.1</p>	2015
<p><b>Attack Type Prediction Using Hybrid Classifier</b></p> <p><i>Sobia Shafiq Wasi Haider Butt Usman Qamar</i>  <i>10th International Conference on Advanced Data Mining and Applications</i>, res.country(48,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> 10.1007/978-3-319-14717-8_38</p>	2014
<p><b>Terrorist Group Prediction Using Data Classification</b></p> <p><i>Faryal Gohar Wasi Haider Butt Usman Qamar</i>  <i>International Conference on Artificial Intelligence and Pattern Recognition</i>, res.country(157,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> <a href="https://www.researchgate.net/publication/268445148_Terrorist_Group_Prediction_Using_Data_Classification">https://www.researchgate.net/publication/268445148_Terrorist_Group_Prediction_Using_Data_Classification</a></p>	2014
<p><b>Detecting Covert Dubious Actors using Cross Domain Associations</b></p> <p><i>Wasi Haider Butt Shaob A Khan Usman Qamar</i>  <i>Third International Conference on Innovative Computing Technology (INTECH 2013)</i>, res.country(231,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> 10.1109/INTECH.2013.6653689</p>	2013
<p><b>Requirement Conflicts Resolution: Using Requirement Filtering &amp; Analysis</b></p> <p><i>Wasi Haider Butt Sameera Amjad Farooque Azam</i>  <i>International Conference on Computational Science and Its Applications ICCSA 2011</i> , res.country(68,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> 10.1007/978-3-642-21934-4_31</p>	2011
<p><b>Shop Floor Scheduling Using Fuzzy Logic and Knowledge Based System</b></p> <p><i>Kashif Kamran Wasi Haider Butt Dr. Aasia Khanum</i>  <i>IADIS International Conference on E-Society</i>, res.country(68,)</p> <p><b>Citations:</b> N/A  <b>DOI:</b> <a href="https://www.researchgate.net/profile/Piet_Kommers/publication/323277257_E-Society_2011/links/5a8b94db458515b8af965915/E-Society-2011.pdf#page=491">https://www.researchgate.net/profile/Piet_Kommers/publication/323277257_E-Society_2011/links/5a8b94db458515b8af965915/E-Society-2011.pdf#page=491</a></p>	2011
<p><b>Retinal Images: Optic Disk Localization and Detection</b></p> <p><i>M. Usman Akram Aftab Khan Khalid Iqbal Wasi Haider Butt</i>  <i>International Conference Image Analysis and Recognition ICIAR 2010</i>, res.country(183,)</p> <p><b>Citations:</b> N/A</p>	2010

DOI: 10.1007/978-3-642-13775-4_5	
<b>A New Divide &amp; Conquer Software Process Model</b>	2009
<i>Hina Gull Farooque Azam Wasi Haider Butt Sardar Zafar Iqbal</i>	
<i>International Conference on Computer, Electrical and Systems Science and Engineering, res.country(217,)</i>	
<b>Citations:</b> N/A	
DOI: 10.5281/zenodo.1062162	
<b>A New Relative Sort Algorithm Based on Arithmetic Mean Value</b>	2008
<i>Wasi Haider Butt Muhammad Younus Javed</i>	
<i>2008 IEEE International Multitopic Conference , res.country(177,)</i>	
<b>Citations:</b> N/A	
DOI: 10.1109/INMIC.2008.4777766	

## Editorial Activities

<b>N/A</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> N/A	
<b>N/A</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> NA	
<b>N/A</b>	2024
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<b>Impact Factor:</b> N/A	
<b>N/A</b>	2024
Reviewed Papers for Journals	
<b>Impact Factor:</b> NA	
<b>Pakistan Journal of Engineering, Technology and Science</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> NA	
<b>The Journal of Supercomputing</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> 2.6	
<b>N/A</b>	2023
Reviewed Papers for Journals	
<b>Impact Factor:</b> N/A	
<b>IGI Global Porta</b>	2022
Reviewed Papers for Journals	
<b>Impact Factor:</b> N/A	
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