

Muhammad Jawed Iqbal

Defence Faculty  
National Institute of Transportation

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About

Dr. Muhammad Jawed Iqbal is working as Defence Faculty in the National Institute of Transportation. Dr. Muhammad Jawed Iqbal has a PhD in Transportation Engineering. Dr. Muhammad Jawed Iqbal has published 37 research articles & conference papers having a citation count of 178, carried out 3 projects and filed 0 intellectual property.

Qualifications

<b>PhD in Transportation Engineering</b> Mehran University of Engineering & Technology , Pakistan	- 2009
<b>MS</b> Mehran University of Engineering & Technology , Pakistan	- 2005
<b>BE</b> Military College Of Engineering Risalpur , Pakistan	- 1995

Experience

<b>Defence Faculty</b> National Institute of Transportation	2024- Present
<b>Defence Faculty</b> National Institute of Transportation	2021 - 2024
<b>Defence Faculty</b> Military College of Engineering	2018 - 2021
<b>Defence Faculty</b> NUST Institute of Civil Engineering.	2015 - 2018
<b>Defence Faculty</b> Military College of Engineering	2010 - 2015
<b>Associate Professor</b> NUST , H-12 Islamabad	2010 - 2022
<b>Lt Col</b> Pak Army , Pak Army	1995 - 2022

Industry Projects

National Projects

<b>Hydrology Study Terrain Analysis at DHA Quetta</b> Client: DHA Quetta Amount: PKR 22,000,000.00 Status: Approved_inprocess	2022
<b>Supervision of and Construction works of DHA - Quetta</b> Client: DHA Quetta Amount: PKR 27,600,000.00 Status: Approved_inprocess	2022
<b>Supervision of Implementation of Remedial Works at Custom Building IIAP Islamabad</b> Client: CAA Amount: PKR 28,800,000.00 Status: Approved_inprocess	2022

International Projects

Research Articles

<b>Integrating Artificial Intelligence for Sustainable Structural Health Monitoring and Wastewater Treatment in Civil and Environmental Engineering</b> <i>Waqar Aslam Muhammad Haris Huzaif Ahmed Khan Kundi Muhammad Jawed Iqbal</i> <i>The Critical Review of Social Sciences Studies</i> , Volume 3, Number 2, 2025, Pages 1828 – 1862 Impact Factor: N/A DOI: <a href="https://doi.org/10.59075/fvft7g42">https://doi.org/10.59075/fvft7g42</a>	2025
<b>AI in Education: Personalized Learning Systems and Their Impact on Student Performance and Engagement</b> <i>Sadaf Saleem Muhammad Umar Aziz Muhammad Jawed Iqbal Shahid Abbas</i> <i>The Critical Review of Social Sciences Studies</i> , Volume 3, Number 1, Pages 2445-2459 Impact Factor: N/A DOI: <a href="https://search.crossref.org/?q=10.59075%2Fcrsss&amp;from_ui=yes">https://search.crossref.org/?q=10.59075%2Fcrsss&amp;from_ui=yes</a>	2025
<b>AI Driven Tutoring vs. Human Teachers Examining the on Student Teacher Relationship</b> <i>Abdul Sattar Muhammad Jawed Iqbal Sadaf Saleem Muhammad Umar Habib</i> <i>Review of Applied Management and Social Sciences</i> , Volume 8(1), Pages 363-374 Impact Factor: N/A DOI: <a href="https://doi.org/10.47067/ramss.v8i1.466">https://doi.org/10.47067/ramss.v8i1.466</a>	2025
<b>The Role of China-Pakistan Relations in the Global Tech Competition, Especially in Areas like 5G, AI, and Cybersecurity</b> <i>Sameer Ullah Khan Inam Ullah Shah, Khansa Shah Muhammad Jawed Iqbal</i> <i>Review of Education, Administration and Law</i> , Volume 8(1), Pages 73-85 Impact Factor: N/A DOI: <a href="https://doi.org/10.47067/real.v8i1.404">https://doi.org/10.47067/real.v8i1.404</a>	2025
<b>Macroscopic and Microscopic Evaluation of the Effect of Mellowing Time on the Mechanical Properties of Expansive Clay Stabilized with Class F Fly Ash–Based Geopolymer</b> <i>Khushal Khan Usama Khalid Zia ur Rehman Nauman Ijaz Muhammad Jawed Iqbal</i> <i>Journal of Materials in Civil Engineering</i> , Volume: 37, Issue: 4, Pages:21 Impact Factor: 3.1   Quartile: 2   Citations: 3 DOI: DOI: 10.1061/JMCEE7.MTENG-19133	2025
<b>Reclaimed brick masonry waste recycling in macro–micro amelioration of cemented clayey soil: an eco-friendly construction waste solution</b> <i>Ansar Ahmad Usama Khalid Zia ur Rehman Muhammad Jawed Iqbal</i> <i>Journal of Material Cycles and Waste Management</i> , Pages:22 Impact Factor: 2.7   Quartile: 3 DOI: <a href="https://doi.org/10.1007/s10163-025-02161-3">https://doi.org/10.1007/s10163-025-02161-3</a>	2025
<b>Feasibility of utilizing recycled concrete aggregate blended with waste tire rubber and drywall waste as pavement subbase material</b>	2024

<p><i>Afaq Ahmed Syed Kamran Hussain Shah Numan Ahmad Umair Ali Adnan Anwar Malik Muhammad Jawed Iqbal</i>  <i>Journal of Material Cycles and Waste Management</i>, Volume 26(4), Pages 2278-2293</p> <p><b>Impact Factor:</b> 2.700   <b>Quartile:</b> 3   <b>Citations:</b> 5  <b>DOI:</b> 10.1007/s10163-024-01967-x</p>	
<p><b>Numerical Analysis of Differential Settlement in Road Due to Widening Considering Different Reinforcement Techniques</b></p> <p><i>Shaista Jabeen Abbasi Xiaolin Weng Muhammad Jawed Iqbal</i>  <i>Applied Sciences</i>, Volume 14(5), Article Number 1740</p> <p><b>Impact Factor:</b> 2.700   <b>Quartile:</b> 2   <b>Citations:</b> 1  <b>DOI:</b> <a href="https://doi.org/10.3390/app14051740">https://doi.org/10.3390/app14051740</a></p>	2024
<p><b>Evaluation of Bus Rapid Transit (BRT) Peshawar in Pakistan By Comparison With International Standards</b></p> <p><i>Jawwad Mehmood Sameer Ud Din Fawwad Mehmood Muhammad Jawed Iqbal</i>  <i>International Journal of Management Sciences and Business Research</i>, Volume 12, Issue 8, Pages 01-11</p> <p><b>Impact Factor:</b> N/A  <b>DOI:</b> 10.5281/zenodo.8329267</p>	2023
<p><b>Factors responsible for urban flooding in Karachi: A case study of DHA</b></p> <p><i>Ayesha Iftikhar Muhammad Jawed Iqbal</i>  <i>International Journal of Disaster Risk Management</i>, Volume 5, No. 1, Pages 83-103</p> <p><b>Impact Factor:</b> N/A   <b>Quartile:</b> 3  <b>DOI:</b> <a href="https://doi.org/10.18485/ijdrm.2023.5.1.7">https://doi.org/10.18485/ijdrm.2023.5.1.7</a></p>	2023
<p><b>Modeling concrete pavements for bending stresses considering nonlinear thermal gradient and aged CTE</b></p> <p><i>Gauhar Sabih Rafiqul A. Tarefder Muhammad Jawed Iqbal</i>  <i>Canadian Journal of Civil Engineering</i>, Volume 50, Issue 1, Pages 46-56</p> <p><b>Impact Factor:</b> 1.400   <b>Quartile:</b> 4  <b>DOI:</b> 10.1139/cjce-2022-0290</p>	2023
<p><b>Potential of Modal Shift and Park &amp; Ride Scheme - BRT PESHAWAR</b></p> <p><i>Talha Haroon Khan Sameer Ud-Din Malik Saqib Mahmood M Jawed Iqbal Nasir Ali</i>  <i>International Journal of Engineering Technology and Scientific Innovation</i>, Volume: 06, Issue: 03, Pages: 18</p> <p><b>Impact Factor:</b> N/A  <b>DOI:</b> <a href="https://www.ijetsi.org/more2021.php?id=3">https://www.ijetsi.org/more2021.php?id=3</a></p>	2021
<p><b>An Alternative Approach for Predicting the Accident Involvement Probability for Drivers in Peshawar City Pakistan</b></p> <p><i>Asad Ali Sameer Ud Din Muhammad Jawed Iqbal Muhammad Jawed Iqbal</i>  <i>Pakistan Journal of Engineering and Technology (PakJET)</i>, Volume 04, Number 01, Pages 79-84</p> <p><b>Impact Factor:</b> N/A  <b>DOI:</b> 10.51846/vol4iss1pp79-84</p>	2021
<p><b>The effects of regional climatic condition on the spread of COVID-19 at global scale</b></p> <p><i>Muhammad Mazhar Iqbal Irfan Abid Saddam Hussain Naeem Shahzad Muhammad Sohail Waqas Muhammad Jawed Iqbal</i>  <i>Science of the Total Environment</i>, Volume 739, Article Number 140101</p> <p><b>Impact Factor:</b> 7.963   <b>Quartile:</b> 1   <b>Citations:</b> 93  <b>DOI:</b> 10.1016/j.scitotenv.2020.140101</p>	2020
<p><b>Enhancement of Hot Mix Asphalt (HMA) Properties Using Waste Polymers</b></p> <p><i>Muhammad Bilal Khurshid Nadeem Anwer Qureshi Arshad Hussain Muhammad Jawed Iqbal</i>  <i>Arabian Journal for Science and Engineering</i>, Volume 44, Issue 10, Pages 8239–8248</p> <p><b>Impact Factor:</b> 1.711   <b>Quartile:</b> 2   <b>Citations:</b> 38  <b>DOI:</b> 10.1007/s13369-019-03748-3</p>	2019
<p><b>Analysis of Non-Standardized Traffic Calming Devices under Local Conditions of Pakistan</b></p> <p><i>Muhammad Jawed Iqbal Saira Ramzan</i>  <i>International Journal of Engineering Works</i>, Volume 6, Issue 01, Pages 12-26</p> <p><b>Impact Factor:</b> -  <b>DOI:</b> <a href="https://doi.org/10.5281/zenodo.2550739">doi.org/10.5281/zenodo.2550739</a></p>	2019
<p><b>Multicriteria Decision Making (MCDM) for evaluation of different transportation alternatives: A case of Rawalpindi bypass Pakistan</b></p>	2018

<p><i>Bilal Khurshid Muhammad Adeel Muhammad Jawed Iqbal Malik Kamran Shakir</i>  <i>Journal of Sustainable Development of Transport and Logistics</i>, Volume 3(3), Pages 38-54</p> <p><b>Impact Factor:</b> 0  <b>DOI:</b> 10.14254/jsdtl.2018.3-3.3</p>		
<p><b>Economic Cost of Road Traffic Accidents in Twin Cities, Pakistan</b></p> <p><i>Komal Chaudhary Muhammad Jawed Iqbal</i>  <i>European Scientific Journal</i>, Volume 14(25), Pages 142-155</p> <p><b>Impact Factor:</b> N/A  <b>DOI:</b> 10.19044/esj.2018.v14n25p142</p>		2018
<p><b>Estimating the Cost of Vehicle Damage due to Road Traffic Accidents in Lahore, Pakistan</b></p> <p><i>Nasir Ali Muhammad Jawed Iqbal Malik Saqib Mahmood</i>  <i>International Journal of Traffic and Transportation Engineering</i>, Volume 7(1), Pages 15-17</p> <p><b>Impact Factor:</b> -  <b>DOI:</b> 10.5923/j.ijtte.20180701.03</p>		2018
<p><b>Evaluation of Rwp-Isl Metrobus Service</b></p> <p><i>Muhammad Jawed Iqbal Farhan Jalil</i>  <i>International Journal of Management Sciences and Business Research</i>, Volume 6, Issue 12, Pages 133-142</p> <p><b>Impact Factor:</b> 0  <b>DOI:</b> <a href="http://www.ijmsbr.com">http://www.ijmsbr.com</a></p>		2017
<p><b>Gender-sensitive public health risks and vulnerabilities? assessment with reference to floods in Pakistan</b></p> <p><i>Arshad Ali Haleema Sadia Muhammad Jawed Iqbal Junaid Ahmad Anees Ahmad</i>  <i>International Journal of Disaster Risk Reduction</i>, Volume 19, Pages 47-56</p> <p><b>Impact Factor:</b> 1.603   <b>Quartile:</b> 2   <b>Citations:</b> 38  <b>DOI:</b> 10.1016/j.ijdr.2016.08.024</p>		2016
<p><b>Reason of the Unsustainability of Community Based Projects: A Critical Review</b></p> <p><i>Zohaib Fazal Muhammad Jawed Iqbal Dr. Muhammad Bilal Khurshid</i>  <i>Acta Technica Corviniensis - Bulletin of Engineering; Hunedoara</i>, Volume 9(3), Pages 147-149</p> <p><b>Impact Factor:</b> -  <b>DOI:</b> -</p>		2016
<p><b>Participatory Land Use Planning in Natural Hazard's Fragile Context: A Case Study of Kalam, Pakistan</b></p> <p><i>Muhammad Jawed Iqbal Ismail Khan Dr. Muhammad Bilal Khurshid Sadaf Saleem</i>  <i>European Scientific Journal</i>, Special Edition 2016, Pages: 265-290</p> <p><b>Impact Factor:</b> N/A  <b>DOI:</b> <a href="https://doi.org/10.19044/esj.2016.v12n10p%25p">https://doi.org/10.19044/esj.2016.v12n10p%25p</a></p>		2016
<p><b>Utilization of Waste Polyethylene in Asphalt Mixes in Pakistan</b></p> <p><i>Bilal Khurshid Sarfraz Ahmed Muhammad Jawed Iqbal Muhammad Irfan</i>  <i>Sarhad University International Journal of Basic and Applied Sciences</i>, Volume 2, Issue 1, Pages 1-8</p> <p><b>Impact Factor:</b> N/A  <b>DOI:</b> 000</p>		2014
<p><b>Analysis of Role of Media in Disaster Reporting in Pakistan</b></p> <p><i>Muhammad Jawed Iqbal Fatima Masoo Ali Bilal Khurshid Sadaf Saleem</i>  <i>European Scientific Journal</i>, Volume 1, Pages 570-575</p> <p><b>Impact Factor:</b> N/A  <b>DOI:</b> 10.19044/esj.2014.v10n10p%25p</p>		2014
<p><b>Impacts of Attaabad lake (Pakistan) and its future outlook</b></p> <p><i>Muhammad Jawed Iqbal Muhammad Naseem Baig Anwar Ul Haq Chaudhry Fiaz Hussain Shah</i>  <i>European Scientific Journal</i>, Volume 10, No.8, Pages 107-120</p> <p><b>Impact Factor:</b> -  <b>DOI:</b> 10.19044/esj.2014.v10n8p%25p</p>		2014
<p><b>Gender Mainstreaming in to Community Based Disaster Risk Management</b></p> <p><i>Muhammad Jawed Iqbal Muhammad Naseem Baig Haleema Sadia Muhammad Bilal Khurshid Sadaf Saleem</i>  <i>European Scientific Journal</i>, Volume 9, No.32, Pages 463-470</p> <p><b>Impact Factor:</b> 0  <b>DOI:</b> 10.19044/esj.2013.v9n32p%25p</p>		2013

<b>An analytical review of traffic congestion on murree road rawalpindi</b>	2013
<i>Dr. Muhammad Bilal Khurshid Dr.Sarfraz Ahmed Muhammad Jawed Iqbal</i>	
<i>Sarhad University International Journal of Basic and Applied Sciences</i> , Volume 1, No. 1, Pages 167-173	
<b>Impact Factor:</b> N/A	

## Conference Proceedings

<b>Sensitivity Analysis of Design Parameters on Thickness and Performance of JPCP in Pakistan</b>	2025
<i>Raja Muhammad Affan Muhammad Mursaleen Gauhar Sabih Muhammad Jawed Iqbal</i>	
<i>International Airfield and Highway Pavements Conference</i> , res.country(233,)	
<b>Citations:</b> N/A	
<b>DOI:</b> <a href="https://doi.org/10.1061/9780784486214.028">https://doi.org/10.1061/9780784486214.028</a>	
<b>Quantifying the Impact of Climatic Factors on JPCP Design and Performance in Pakistan</b>	2025
<i>Muhammad Mursaleen Raja Muhammad Affan Gauhar Sabih Muhammad Jawed Iqbal</i>	
<i>International Airfield and Highway Pavements Conference</i> , res.country(233,)	
<b>Citations:</b> N/A	
<b>DOI:</b> <a href="https://doi.org/10.1061/9780784486214.027">https://doi.org/10.1061/9780784486214.027</a>	
<b>Impact of Proposed Bus Rapid Transit (BRT) Peshawar on Modal Shares of Private Modes</b>	2022
<i>Jawwad Mehmood Dr. Muhammad Jawed Iqbal Dr. Sameer Ud Din N. Ali</i>	
<i>5th International Conference on Sustainable Civil Engineering Structures and Construction Materials</i> , res.country(197,)	
<b>Citations:</b> N/A	
<b>DOI:</b> <a href="https://doi.org/10.1007/978-981-16-7924-7_88">https://doi.org/10.1007/978-981-16-7924-7_88</a>	
<b>Analyzing the Mobility of Multilane Highway using Travel Time as a Performance Measure</b>	2020
<i>Dr. Muhammad Bilal Khurshid Arshad Hussain Muhammad Jawed Iqbal Jamal Ahmed Khan</i>	
<i>11th International Civil Engineering Conference (ICEC-2020)</i> , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> Nil	
<b>Quantifying The Factors For Quality of Pavement Rehabilitation</b>	2019
<i>Umair Imran Dr. Muhammad Bilal Khurshid Muhammad Jawed Iqbal</i>	
<i>10th International Civil Engineering Conference (ICEC-2019)</i> , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> Nil	
<b>Effect of Waste Polymers in Enhancing the Properties and Performance of Hot Mix Asphalt</b>	2017
<i>Dr. Muhammad Bilal Khurshid Muhammad Jawed Iqbal Nadeem Anwer Qureshi Arshad Hussain Muhammad Adeel</i>	
<i>International Conference on Sustainable Development in Civil Engineering</i> , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> International Conference on Sustainable Development in Civil Engineering	
<b>WORK ZONE TRAFFIC MANAGEMENT IN REHABILITATION OF M-2</b>	2016
<i>Dr. Muhammad Bilal Khurshid Muhammad Adeel Malik Kamran Shakir Muhammad Jawed Iqbal</i>	
<i>3rd International Multidisciplinary Research Conference 2016 On Global Prosperity through Research &amp; Innovation</i> , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> Nil	
<b>Participatory Land Use Planning in Natural Hazard's Fragile Context: A Case Study of Kalam, Pakistan</b>	2016
<i>Muhammad Jawed Iqbal Ismail Khan Dr. Muhammad Bilal Khurshid Sadaf Saleem</i>	
<i>4th Mediterranean Interdisciplinary Forum on Social Sciences and Humanities, MIFS 2016</i> , res.country(68,)	
<b>Citations:</b> N/A	
<b>DOI:</b> 4th Mediterranean Interdisciplinary Forum on Social Sciences and Humanities, MIFS 2016	
<b>Impact Study: New Benazir Bhutto International Airport Islamabad</b>	2013
<i>Muhammad Irfan Muhammad Bilal Khurshid Dr.Sarfraz Ahmed Muhammad Jawed Iqbal</i>	
<i>5th World Engineering Congress (WEC)</i> , res.country(177,)	
<b>Citations:</b> N/A	
<b>DOI:</b> Nil	