

Khurram Iqbal Ahmad Khan

Associate Professor
NUST Institute of Civil Engineering

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About

Dr. Khurram Iqbal Ahmad Khan is working as Associate Professor in the NUST Institute of Civil Engineering. Dr. Khurram Iqbal Ahmad Khan has a PhD in Construction Management And Engineering. Dr. Khurram Iqbal Ahmad Khan has published 31 research articles & conference papers having a citation count of 631, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Construction Management And Engineering University of Reading , England	2012 - 2016
MSc in Construction Management University of Reading , United Kingdom	2006 - 2007
B.Sc (Hon) in Civil Engineering UET Peshawar , Pakistan	1996 - 2001

Experience

Associate Professor NUST Institute of Civil Engineering	2023- Present
Assistant Professor NUST Institute of Civil Engineering	2023 - 2023
Assistant Professor NUST Institute of Civil Engineering	2022 - 2023
Assistant Professor NUST Institute of Civil Engineering.	2017 - 2017
Assistant Professor NUST Institute of Civil Engineering.	2017 - 2017
Assistant Professor Iqra National University , Phase 2, Hayatabad, Peshawar	2017 - 2017
Assistant Professor National University of Sciences and Technology , H-12, Islamabad	2011 - 2012
Project Manager University of Engineering & Technology, Peshawar , UET, Peshawar	2008 - 2011
Site Engineer M/S Fazal Karim & Co. , Mardan	2005 - 2006
Junior Engineer National Engineering Services of Pakistan (NESPAK) , Hayatabad, Peshawar	2003 - 2005
Junior Design Engineer National Engineering Services of Pakistan (NESPAK) , Hayatabad, Peshawar	2001 - 2003

Research Projects

National Projects

Management of information flows through the supply chain using collaboration technologies and system dynamics	2018
Funding Agency: HEC	
Amount: PKR 475,000.00	
Status: Completed	

International Projects

Research Articles

<p>Decoding Social Sustainability in Construction Projects: Analysis of Project Dynamics and Impact</p> <p><i>Junaid Akhtar Khurram Iqbal Ahmad Khan Muhammad Bilal Tahir Fahim Ullah Abdul Waheed</i></p> <p><i>Buildings</i> , Volume 14, Issue 3, Article Number 682</p> <p>Impact Factor: 3.100 Quartile: 2 Citations: 4</p> <p>DOI: https://doi.org/10.3390/buildings14030682</p>	2024
<p>To study the procurement process and develop a conceptual framework model for Pakistan’s construction industry</p> <p><i>Muhammad Umair Shahab Naveed Rashid Muhammad Sohaib Raza Khurram Iqbal Ahmad Khan</i></p> <p><i>Sustainable Structures and Materials</i> , Volume 6(1), Pages 59-63</p> <p>Impact Factor: N/A</p> <p>DOI: https://doi.org/10.26392/SSM.2023.06.01.059</p>	2023
<p>Key factors for implementation of total quality management in construction Sector: A system dynamics approach</p> <p><i>Hassan Riaz Khurram Iqbal Ahmad Khan Fahim Ullah Muhammad Bilal Tahir Muwaffaq Alqurashi Badr T. Alsulami</i></p> <p><i>Ain Shams Engineering Journal</i> , Volume 14, Issue 3, Article Number 101903</p> <p>Impact Factor: 4.790 Quartile: 1 Citations: 33</p> <p>DOI: https://doi.org/10.1016/j.asej.2022.101903</p>	2023
<p>Drivers of, and Barriers to, the Adoption of Mixed Reality in the Construction Industry of Developing Countries</p> <p><i>Ahsen Maqsoom Muhammad Zulqarnain Muhammad Irfan Fahim Ullah Fahad K. Alqahtani Khurram Iqbal Ahmad Khan</i></p> <p><i>Buildings</i> , Volume 13(4), Article Number 872</p> <p>Impact Factor: 3.324 Quartile: 2 Citations: 15</p> <p>DOI: https://doi.org/10.3390/buildings13040872</p>	2023
<p>Analysing the Causes of Design Generated Waste through System Dynamics</p> <p><i>Sidra Muzaffar Khurram Iqbal Ahmad Khan Muhammad Bilal Tahir Hamna Bukhari</i></p> <p><i>KSCE Journal of Civil Engineering</i> , Pages 1-14</p> <p>Impact Factor: 2.2 Quartile: 3 Citations: 3</p> <p>DOI: https://doi.org/10.1007/s12205-022-1896-1</p>	2022
<p>Key Enablers of Resilient and Sustainable Construction Supply Chains: A Systems Thinking Approach</p> <p><i>Maria Ghufraan Khurram Iqbal Ahmad Khan Fahim Ullah Wesam Salah Alaloul Muhammad Ali Musarat</i></p> <p><i>Sustainability</i> , Volume 14(19), Article Number 11815</p> <p>Impact Factor: 3.889 Quartile: 2 Citations: 16</p> <p>DOI: https://doi.org/10.3390/su141911815</p>	2022
<p>Resilient Capabilities to Tackle Supply Chain Risks: Managing Integration Complexities in Construction Projects</p> <p><i>Afia Malik Khurram Iqbal Ahmad Khan Siddra Qayyum Fahim Ullah Ahsen Maqsoom</i></p> <p><i>Buildings</i> , Volume 12(9), Article Number 1322</p> <p>Impact Factor: 3.324 Quartile: 2 Citations: 15</p> <p>DOI: https://doi.org/10.3390/buildings12091322</p>	2022
<p>Circular Economy in the Construction Industry: A Step towards Sustainable Development</p> <p><i>Maria Ghufraan Khurram Iqbal Ahmad Khan Fahim Ullah Abdur Rehman Nasir Ahmad Aziz Al Alahmadi Ali Nasser Alzaed Mamdooh Alwetaishi</i></p> <p><i>Buildings</i> , Volume 12(7), Article Number 1004</p> <p>Impact Factor: 3.324 Quartile: 2 Citations: 49</p> <p>DOI: https://doi.org/10.3390/buildings12071004</p>	2022

Key Adoption Factors for Collaborative Technologies and Barriers to Information Management in Construction Supply Chains: A System Dynamics Approach <i>Fawad Amin Khurram Iqbal Ahmad Khan Fahim Ullah Muwaffaq Alqurashi Badr T. Alsulami</i> <i>Buildings</i> , Volume 12, Issue 6, Article Number 766 Impact Factor: 3.324 Quartile: 2 Citations: 10 DOI: https://doi.org/10.3390/buildings12060766	2022
Modeling Profitability-Influencing Risk Factors for Construction Projects: A System Dynamics Approach <i>Shah Jahan Khurram Iqbal Ahmad Khan Muhammad Jamaluddin Thaheem Fahim Ullah Muwaffaq Alqurashi Badr T. Alsulami</i> <i>Buildings</i> , Volume 12, Issue 6, Article Number 701 Impact Factor: 3.324 Quartile: 2 Citations: 27 DOI: https://doi.org/10.3390/buildings12060701	2022
Investigating the influence of information complexity on construction quality: a systems thinking approach <i>Faizan Naveed Khurram Iqbal Ahmad Khan</i> <i>Engineering, Construction and Architectural Management</i> , Volume 29, No.3, Pages 1427-1448 Impact Factor: 3.531 Quartile: 2 Citations: 23 DOI: https://doi.org/10.1108/ECAM-05-2020-0311	2022
A Systematic Review on Supply Chain Management in Prefabricated House-Building Research <i>Rehan Masood James B.P. Lim Vicente A. Gonzalez Krishanu Roy Khurram Iqbal Ahmad Khan</i> <i>Buildings</i> , Volume 12(1), Article Number 40 Impact Factor: 2.648 Quartile: 2 Citations: 49 DOI: https://doi.org/10.3390/buildings12010040	2022
Adoption of Sustainable Supply Chain Management for Performance Improvement in the Construction Industry: A System Dynamics Approach <i>Maria Ghufuran Khurram Iqbal Ahmad Khan Muhammad Jamaluddin Thaheem Abdur Rehman Nasir Fahim Ullah</i> <i>Architecture</i> , Volume 1(2), Pages 161-182 Impact Factor: N/A Citations: 15 DOI: https://doi.org/10.3390/architecture1020012	2021
ConSafe4All: A framework for language friendly safety training modules <i>Mahud Arif Abdur Rehman Nasir Muhammad Jamaluddin Thaheem Khurram Iqbal Ahmad Khan Mahud Arif Muhammad Jamaluddin Thaheem</i> <i>Safety Science</i> , Volume 141, Article Number 105329 Impact Factor: 6.392 Quartile: 1 Citations: 10 DOI: https://doi.org/10.1016/j.ssci.2021.105329	2021
BIMp-Chart—A Global Decision Support System for Measuring BIM Implementation Level in Construction Organizations <i>Qurratulain Malik Abdur Rehman Nasir Rabiah Muhammad Khurram Iqbal Ahmad Khan Muhammad Usman Hassan Muhammad Jamaluddin Thaheem Fahim Ullah</i> <i>Sustainability</i> , Volume 13(16), Article Number 927 Impact Factor: 3.889 Quartile: 2 Citations: 22 DOI: https://doi.org/10.3390/su13169270	2021
Tacit knowledge sharing in construction: a system dynamics approach <i>Muhammad Bilal Tahir Khurram Iqbal Ahmad Khan Abdur Rehman Nasir</i> <i>Asian Journal of Civil Engineering</i> , Volume 22, Pages 605-625 Impact Factor: - Citations: 10 DOI: https://doi.org/10.1007/s42107-020-00335-y	2021
Current state and barriers to the circular economy in the building sector: Towards a mitigation framework <i>Muhammad Bilal Khurram Iqbal Ahmad Khan Muhammad Jamaluddin Thaheem Abdur Rehman Nasir</i> <i>Journal of Cleaner Production</i> , Volume 276, Article Number 123250 Impact Factor: 9.297 Quartile: 1 Citations: 195 DOI: https://doi.org/10.1016/j.jclepro.2020.123250	2020
Project Schedule Risk Management through Building Information Mdelling <i>Muhammad Sami ur Rehman Muhammad Jamaluddin Thaheem Abdur Rehman Nasir Khurram Iqbal Ahmad Khan</i> <i>International Journal of Construction Management</i> , Pages 1-11 Impact Factor: - Citations: 56	2020

DOI: <https://doi.org/10.1080/15623599.2020.1728606>

Managing risk in green building projects: toward a dedicated framework <i>Nida Javed Beenish Bakhtawar Abdur Rehman Nasir Khurram Iqbal Ahmad Khan Hamza Farooq Gabriel Muhammad Jamaluddin Thaheem</i> <i>Smart and Sustainable Built Environment</i> , Pages 1-18 Impact Factor: N/A Citations: 23 DOI: 10.1108/SASBE-11-2018-0060	2019
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Managing information complexity using system dynamics on construction projects <i>Khurram Iqbal Ahmad Khan Roger Flanagan Shu-Ling Lu</i> <i>Construction Management and Economics</i> , Volume 34, Issue 3, Pages, 192-204 Impact Factor: N/A Citations: 56 DOI: 10.1080/01446193.2016.1190026	2016
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Conference Proceedings

The Adoption of the Circular Economy by Small and Medium Sized Enterprises in the Pakistan Construction Sector <i>Khurram Iqbal Ahmad Khan Roger Flanagan</i> <i>CIB World Building Congress WBC2025 19-23 May 2025, Purdue University, USA</i> , res.country(233,) Citations: N/A DOI: https://doi.org/10.7771/3067-4883.1703	2025
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A Holistic View of Construction Sustainability: Integrating Social Dynamics with System Dynamics <i>Junaid Akhtar Khurram Iqbal Ahmad Khan Muhammad Bilal Tahir</i> <i>24th International Conference on Management Science and Engineering Management (ICMSEM -25)</i> Citations: N/A DOI: ISSN (Online) 2456-1290	2024
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Geospatial Integration of Primavera P6 in Engineering Project Management: A Case Study of Imarat Group in Pakistan <i>Muhammad Umair Muhammad Sohaib Raza Naveed Rashid Aymen Zia Khurram Iqbal Ahmad Khan</i> <i>3rd International Conference on Advances in Civil and Environmental Engineering (ICACEE-2024)</i> , res.country(177,) Citations: N/A DOI: Nil	2024
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Integration of Circular Economy Principles: Impact on Project Quality Assurance in Construction Industry of Pakistan <i>Hammad Shahzad Muhammad Saroosh Khurram Iqbal Ahmad Khan</i> <i>3rd International Conference on Advances in Civil and Environmental Engineering (ICACEE-2024)</i> , res.country(177,) Citations: N/A DOI: Nil	2024
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Implementing Circular Economy Principles in Construction Waste Management: A Conceptual Framework for Maximizing Resource Efficiency and Minimizing Environmental Impact <i>Muhammad Saroosh Khurram Iqbal Ahmad Khan</i> <i>3rd International Conference on Advances in Civil and Environmental Engineering (ICACEE-2024)</i> , res.country(177,) Citations: N/A DOI: Nil	2024
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Circular Economy for Successful Implementation of Sustainable Development in the Construction Industry <i>Maria Ghufuran Khurram Iqbal Ahmad Khan Abdur Rehman Nasir Muhammad Usman Hassan Ahsen Maqsoom</i> <i>12th International Conference on Engineering, Project, and Production Management (EPPM2022)</i> , res.country(88,) Citations: N/A DOI: Nil	2022
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Challenges in Adoption of Big Data in Construction Industry of Pakistan <i>Sulaiman Javed Furqan Ali Wajahat Ali Khan Hamza Nadeem Khurram Iqbal Ahmad Khan</i> <i>2 nd Conference on Sustainability in Civil Engineering (CSCE'20)</i> , res.country(177,) Citations: N/A DOI: Nil	2020
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Challenges in the Adoption of Unmanned Aerial Systems (UAS) for Health and Safety in Construction Industry of Pakistan	2019
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Atif Afzal Mir Muhammad Abdullah Muhammad Farhan Makhdoom Muhammad Shahab-ud-Din Khurram Iqbal Ahmad Khan
1st Conference on Sustainability in Civil Engineering, res.country(177,)

Citations: N/A

DOI: Nil

Capacity building in the Pakistan construction sector: the paradox for small and medium-sized construction enterprises

2019

Khurram Iqbal Ahmad Khan

CIB World Building Congress 2019 Hong Kong SAR, res.country(48,)

Citations: N/A

DOI: https://www.researchgate.net/publication/336169501_Capacity_building_in_the_Pakistan_construction_sector_the_paradox_for_small_and_medium-sized_construction_enterprises

Managing the complexity of information flow for construction small and medium sized enterprises (CSMEs) using system dynamics and collaborative technologies

2015

Khurram Iqbal Ahmad Khan Roger Flanagan Shu-Ling Lu

31st Annual ARCOM Conference , res.country(231,)

Citations: N/A

DOI: <http://centaur.reading.ac.uk/46603/1/e63eeb19b43edb17a912d54be657f447.pdf>