Muhammad Zeshan Akber

Assistant Professor

NUST Institute of Civil Engineering

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Contact:



2013 - 2014

About

Dr. Muhammad Zeshan Akber is working as Assistant Professor in the NUST Institute of Civil Engineering. Dr. Muhammad Zeshan Akber has a PhD in Civil Engineer. Dr. Muhammad Zeshan Akber has published 10 research articles & conference papers having a citation count of 259, carried out 0 projects and filed 0 intellectual property.

Qualifications

Engr. Project Management

TC (Pvt) Ltd., Pakistan , Lahore Pakistan

PhD in Civil Engineer Hong Kong University of Science and Technology , Hong Kong	2018 - 2022
MS in Construction Engineering and Management NUST, Islamabad , Pakistan	2014 - 2017
Experience	
Assistant Professor NUST Institute of Civil Engineering	2025- Present
Postdoctoral Fellow Centre for Advances in Reliability and Safety , Hong Kong	2022 - 2025
Postgraduate Research Student & Teaching Assistant HKUST , Hong Konh	2018 - 2022
Lecturer University o Management and Technology , Lahore, Pakistan	2017 - 2018
Field Engineer B.L. Harbert International, LLC , Islamabad Pakistan	2015 - 2016

Research Articles

Multi-agent deep reinforcement learning for resilience optimization of building structures considering	2025
utility interactions for functionality	
Muhammad Zeshan Akber Ghazanfar Ali Anwar	
Computers and Structures , Volume 310, Article Number 107703	
Impact Factor: 4.400 Quartile: 1 DOI: https://doi.org/10.1016/j.compstruc.2025.107703	
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TPE-xgboost for explainable predictions of concrete compressive strength considering compositions,	2024
and mechanical and microstructure properties of testing samples	
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TPE-Optimized DNN with Attention Mechanism for Prediction of Tower Crane Payload Moving	2024
Conditions Muhammad Zeshan Akber Wai-Kit Chan Hiu-Hung Lee Ghazanfar Ali Anwar	
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Predicting the 28-day compressive strength by mix proportions: Insights from a large number of	2023
observations of industrially produced concrete Muhammad Zeshan Akber C.S. Poon Wei Zheng Xueqing Zhang	
Construction and Building Materials, Volume:400, Article Number 132754	
Impact Factor: 7.4 Quartile: 1 Citations: 13	
DOI: https://doi.org/10.1016/j.conbuildmat.2023.132754	
Sustainability-Oriented Optimization and Decision Making of Community Buildings under Seismic	2023
Hazard	2020
Ghazanfar Ali Anwar Mudasir Hussain Muhammad Zeshan Akber Mustesin Ali Khan Aatif Ali Khan	
Sustainability , Volume:15, Issue:5, Article Number 4385	
Impact Factor: 3.300 Quartile: 2 Citations: 12	
DOI: https://doi.org/10.3390/su15054385	
Predicting the slump of industrially produced concrete using machine learning: A multiclass	2022
classification approach	
Xueqing Zhang Muhammad Zeshan Akber Wei Zheng	
Journal of Building Engineering, Volume:58, Article Number 104997	
Impact Factor: 6.400 Quartile: 1 Citations: 44	
DOI: https://doi.org/10.1016/j.jobe.2022.104997	
Prediction of seven-day compressive strength of field concrete	2021
Xueqing Zhang Muhammad Zeshan Akber Wei Zheng	
Construction and Building Materials, Volume:305, Article Number 124604	
Impact Factor: 7.693 Quartile: 1 Citations: 74	
DOI: https://doi.org/10.1016/j.conbuildmat.2021.124604	
Life cycle sustainability assessment of electricity generation in Pakistan: Policy regime for a	2017
sustainable energy mix	
Muhammad Zeshan Akber Muhammad Jamaluddin Thaheem Husnain Arshad	
Energy Policy , Volume 111, Pages 111-126	
Impact Factor: 4.039 Quartile: 1 Citations: 100 DOI: https://doi.org/10.1016/j.enpol.2017.09.022	
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