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About

Dr. Muhammad Moman Shahzad is working as Assistant Professor in the NUST Balochistan Campus. Dr. Muhammad Moman Shahzad has a PhD in Solid Mechanics . Dr. Muhammad Moman Shahzad has published 16 research articles & conference papers having a citation count of 177, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Solid Mechanics	2018 - 2022
Northwest Polytechnical University Xi'an , China	
M.E in Structural Engineering	2015 - 2016
University of Melbourne , Australia	

Experience

Assistant Professor	2024- Present
NUST Balochistan Campus	
Assistant Professor	2023 - 2023
NUST Balochistan Campus	
Assistant Professor	2023 - 2023
NUST Balochistan Campus	

Research Articles

Quantifying the influence of modeling uncertainties on performance evaluation of mega column-core tube-outrigger structure under near-field and far-field ground motions	2022
Tianlong Wang Xun'an Zhang Shixuan Yang Muhammad Moman Shahzad	
Journal of Building Engineering , Volume 59, Article Number 105052	
Impact Factor: 6.4 Quartile: 1 Citations: 4	
DOI: https://doi.org/10.1016/j.job.2022.105052	
Identification of Structural Damage and Damping Performance of a Mega-Subcontrolled Structural System (MSCSS) Subjected to Seismic Action	2022
Xun'an Zhang Xinwei Wang Muhammad Moman Shahzad	
Sustainability , Volume 14, Issue 19, Article Number 12390	
Impact Factor: 3.9 Quartile: 2	
DOI: https://doi.org/10.3390/su141912390	
Failure Mode and Optimization for MSCSS with LRBs Based on IDA Method	2022
Buqiao Fan Xun'an Zhang Yanjie Xiao Mustapha Abdulhadi Xinwei Wang Muhammad Moman Shahzad	
Buildings , Volume 12, Issue 7, Article Number 998	
Impact Factor: 3.8 Quartile: 2 Citations: 5	
DOI: https://doi.org/10.3390/buildings12070998	
Plastic Deformation Analysis of a New Mega-Subcontrolled Structural System (MSCSS) Subjected to Seismic Excitation	2022
Xun'an Zhang Xinwei Wang Mustapha Abdulhadi Yanjie Xiao Buqiao Fan Muhammad Moman Shahzad	
Buildings , Volume 12, Issue 7, Article Number 987	
Impact Factor: 3.8 Quartile: 2 Citations: 4	
DOI: https://doi.org/10.3390/buildings12070987	
Response control analysis of a new mega-subcontrolled structural system (MSCSS) under seismic excitation	2022

<p><i>Xun'an Zhang Xinwei Wang Mustapha Abdulhadi Tianlong Wang Yanjie Xiao Muhammad Moman Shahzad</i> <i>Structural Design of Tall and Special Buildings</i>, Volume 31, Issue 10, Article Number e1935</p> <p>Impact Factor: 2.4 Quartile: 3 Citations: 6 DOI: https://doi.org/10.1002/tal.1935</p>	
<p>Seismic Fragility Analysis of Mega-Frame with Vibration Control Substructure Based on Dual Surrogate Model and Active Learning</p> <p><i>Yanjie Xiao Xun'an Zhang Feng Yue Muhammad Moman Shahzad Xinwei Wang Buqiao Fan</i> <i>Buildings</i> , Volume 12, Issue 6, Article Number 752</p> <p>Impact Factor: 3.8 Quartile: 2 Citations: 4 DOI: https://doi.org/10.3390/buildings12060752</p>	2022
<p>Fragility analysis and collapse margin capacity assessment of mega-sub controlled structure system under the excitation of mainshock-aftershock sequence</p> <p><i>Xinwei Wang Xun'an Zhang Muhammad Moman Shahzad Xiangyu Shi</i> <i>Journal of Building Engineering</i> , Volume 49, Article Number 104080</p> <p>Impact Factor: 6.4 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.jobbe.2022.104080</p>	2022
<p>Aseismic Optimization of Mega-sub Controlled Structures Based on Gaussian Process Surrogate Model</p> <p><i>Yanjie Xiao Feng Yue Xun'an Zhang Muhammad Moman Shahzad</i> <i>KSCE Journal of Civil Engineering</i> , Volume 26, Issue 5, Pages 2246-2258</p> <p>Impact Factor: 2.2 Quartile: 3 Citations: 4 DOI: https://dx.doi.org/10.1007/s12205-022-0832-8</p>	2022
<p>Comparative response assessment of different steel plate shear walls (SPSWs) under near-field ground motion</p> <p><i>Xun'an Zhang Xinwei Wang Mustapha Abdulhadi Muhammad Moman Shahzad</i> <i>Journal of Constructional Steel Research</i>, Volume 190, Article Number 107147</p> <p>Impact Factor: 4.1 Quartile: 2 Citations: 8 DOI: https://doi.org/10.1016/j.jcsr.2022.107147</p>	2022
<p>Seismic behavior of MSCSS based on story drift and failure path</p> <p><i>Buqiao Fan Xun'an Zhang Mustapha Abdulhadi Muhammad Moman Shahzad Zhihao Wang</i> <i>Latin American Journal of Solids and Structures</i>, Volume 18, Issue 8, Article Number e411</p> <p>Impact Factor: 1.37 Quartile: 4 Citations: 5 DOI: https://doi.org/10.1590/1679-78256787</p>	2021
<p>Research on the disaster prevention mechanism of mega-sub controlled structural system by vulnerability analysis</p> <p><i>Xinwei Wang Xun'an Zhang Muhammad Moman Shahzad Xiangyu Shi</i> <i>Structures</i> , Volume 33, Pages 4481-4491</p> <p>Impact Factor: 4.010 Quartile: 2 Citations: 13 DOI: https://doi.org/10.1016/j.istruc.2021.07.036</p>	2021
<p>Substructure design optimization and nonlinear responses control analysis of the mega-sub controlled structural system (MSCSS) under earthquake action</p> <p><i>Mustapha Abdulhadi Xun'an Zhang Buqiao Fan Muhammad Moman Shahzad</i> <i>Earthquake Engineering and Engineering Vibration</i>, Volume 20, Issue 3, Pages 687-704</p> <p>Impact Factor: 2.810 Quartile: 2 Citations: 12 DOI: https://dx.doi.org/10.1007/s11803-021-2047-2</p>	2021
<p>A novel structural damage identification scheme based on deep learning framework</p> <p><i>Xinwei Wang Xun'an Zhang Muhammad Moman Shahzad</i> <i>Structures</i> , Volume 29, Pages 1537-1549</p> <p>Impact Factor: 4.010 Quartile: 2 Citations: 49 DOI: https://doi.org/10.1016/j.istruc.2020.12.036</p>	2021
<p>Research on dynamic response characteristics and control effect of mega-sub controlled structural system under long-period ground motions</p> <p><i>Xinwei Wang Xun'an Zhang Muhammad Moman Shahzad Tianlong Wang</i> <i>Structures</i> , Volume 29, Pages 225-234</p> <p>Impact Factor: 4.010 Quartile: 2 Citations: 18 DOI: https://doi.org/10.1016/j.istruc.2020.11.044</p>	2021

Evaluation of Seismic Fragility Analysis of the Mega Sub-Controlled Structural System (MSCSS)

2020

Mustapha Abdulhadi Xun'an Zhang Buqiao Fan Muhammad Moman Shahzad

Journal of Earthquake and Tsunami, Volume 14, Issue 6, Article Number 20500256

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DOI: <https://dx.doi.org/10.1142/S1793431120500256>

Design, Optimization and Nonlinear Response Control Analysis of the Mega Sub-Controlled Structural System (MSCSS) under Earthquake Action

2020

Mustapha Abdulhadi Xun'an Zhang Buqiao Fan Muhammad Moman Shahzad

Journal of Earthquake and Tsunami, Volume 14, Issue 3, Article Number 2050013

Impact Factor: 1.483 | **Quartile:** 3 | **Citations:** 18

DOI: <https://dx.doi.org/10.1142/S179343112050013X>