# Adeel Zafar


Adjunct Faculty

Military College of Engineering

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## About

Dr. Adeel Zafar is working as Adjunct Faculty in the Military College of Engineering. Dr. Adeel Zafar has a PhD in Structures. Dr. Adeel Zafar has published 17 research articles & conference papers having a citation count of 744, carried out 0 projects and filed 0 intellectual property.

## Qualifications

**PhD in Structures** 2010 - 2013
University of Illinois at Urbana-Champaign , United States

## Experience

**Adjunct Faculty** 2024- Present
Military College of Engineering

**Defence Faculty** 2024 - 2024
Military College of Engineering

**Defence Faculty** 2018 - 2024
Military College of Engineering

**Structural Engineer** 2013 - 2018
HQ FWO , 509 Kashmir road, Rawalpindi

## Awards

**President Gold Medal** 2000
1st Position in BE civil degree

## Professional Memberships

**PEC**

**IEP**

**M.ASCE**

## Research Articles

**Bio-inspired based meta-heuristic approach for predicting the strength of fiber-reinforced based strain hardening cementitious composites** 2023

*Yasar Khan Adeel Zafar Muhammad Faisal Rehman Muhammad Faisal Javed Bawar Iftikhar Yaser Gamil*

*Heliyon* , Volume 9, Issue 11, Article Number e21601

**Impact Factor:** 4.0 | **Quartile:** 2 | **Citations:** 3
**DOI:** https://doi.org/10.1016/j.heliyon.2023.e21601

**Advanced Machine Learning Modeling Approach for Prediction of Compressive Strength of FRP Confined Concrete Using Multiphysics Genetic Expression Programming** 2022

*Israr Ilyas Adeel Zafar Muhammad Talal Afzal Muhammad Faisal Javed Raid Alrowais Fadi Althoey Abdeliazim Mustafa Mohamed Abdullah Mohamed Nikolai Ivanovich Vatin*

*Polymers* , Volume 14, Issue 9, Article Number 1789

**Impact Factor:** 4.967 | **Quartile:** 1 | **Citations:** 45
**DOI:** https://doi.org/10.3390/polym14091789

**Sustainable use of chemically modified tyre rubber in concrete: Machine learning based novel predictive model** 2022

*Piyu Li Galal Ahmed Hammad Hassan Awan Mohsin Ali Adeel Zafar Muhammad Faisal Javed MuhammadFaisal Javed M. Ijaz Khan Sumaira Qayyum M.Y. Malik Fuzhang Wang*

*Chemical Physics Letters* , Volume793, Article Number 139478

**Impact Factor:** 2.8 | **Quartile:** 2 | **Citations:** 31

**DOI:** https://doi.org/10.1016/j.cplett.2022.139478

**Simulation of depth of wear of eco-friendly concrete using machine learning based computational approaches** 2021

*Mohsin Ali Furqan Farooq Muhammad Faisal Javed Adeel Zafar Krzysztof Adam Ostrowski Fahid Aslam Seweryn Malazdrewicz Mariusz Maślak*

*Materials* , Volume 15, Issue 1, Article Number 58

**Impact Factor:** 3.748 | **Quartile:** 1 | **Citations:** 67

**DOI:** https://doi.org/10.3390/ma15010058

**Predicting the ultimate axial capacity of uniaxially loaded cfst columns using multiphysics artificial intelligence** 2021

*Sangeen Khan Mohsin Ali Adeel Zafar Muhammad Faisal Javed Fahid Aslam Muhammad Ali Musarat Nikolai Ivanovich Vatin*

*Materials* , Volume 15, Issue 1, Article Number 39

**Impact Factor:** 3.748 | **Quartile:** 1 | **Citations:** 42

**DOI:** https://doi.org/10.3390/ma15010039

**Sustainable use of fly-ash: Use of gene-expression programming (GEP) and multi-expression programming (MEP) for forecasting the compressive strength geopolymer concrete** 2021

*Hong-Hu Chu Mohsin Ali Khan Muhammad Javed Adeel Zafar M. Ijaz Khan Hisham Alabduljabbar Sumaira Qayyum*

*Ain Shams Engineering Journal*, Volume 12, Pages 3603-3617

**Impact Factor:** 3.180 | **Quartile:** 2 | **Citations:** 109

**DOI:** https://doi.org/10.1016/j.asej.2021.03.018

**Forecasting strength of cfrp confined concrete using multi expression programming** 2021

*Israr Ilyas Adeel Zafar Muhammad Faisal Javed Furqan Farooq Fahid Aslam Muhammad Ali Musarat Nikolai Ivanovich Vatin*

*Materials* , Volume 14, Issue 23, Article Number 7134

**Impact Factor:** 3.748 | **Quartile:** 1 | **Citations:** 38

**DOI:** https://doi.org/10.3390/ma14237134

**Geopolymer Concrete Compressive Strength via Artificial Neural Network, Adaptive Neuro Fuzzy Interface System, and Gene Expression Programming With K-Fold Cross Validation** 2021

*Mohsin Ali Khan Adeel Zafar Zafar Furqan Farooq Muhammad Faisal Javed Rayed Alyousef Hisham Alabduljabbar M. Ijaz Khan*

*Frontiers in Materials* , Volume 8, Article Number 621163

**Impact Factor:** 3.515 | **Quartile:** 2 | **Citations:** 111

**DOI:** doi: 10.3389/fmats.2021.621163

**Application of Gene Expression Programming (GEP) for the Prediction of Compressive Strength of Geopolymer Concrete** 2021

*Mohsin Ali Khan Adeel Zafar Arslan Akbar Muhammad Faisal Javed Amir Mosavi*

*Materials* , Volume 14(5), Article Number 1106

**Impact Factor:** 3.748 | **Quartile:** 1 | **Citations:** 116

**DOI:** https://doi.org/10.3390/ma14051106

**Work zone traffic management in rehabilitation of M-2** 2018

*Adeel Zafar Dr. Muhammad Bilal Khurshid Malik Kamran Shakir*

*Journal of Sustainable Development of Transport and Logistics*, Volume 3(3), Pages 99-108

**Impact Factor:** -

**DOI:** 10.14254/jsdtl.2018.3-3.8

**Sustainability of civil infrastructure using shape memory technology** 2017

*Donghyuk Jung Adeel Zafar Bassem Andrawes*

*Innovative Infrastructure Solutions* , NULL

**Impact Factor:** N/A | **Citations:** 10

**DOI:** DOI:10.1007/s41062-017-0083-6

**Seismic behavior of SMA–FRP reinforced concrete frames under sequential seismic hazard** 2015

*Adeel Zafar Bassem Andrawes*

*Engineering Structures* , Volume 98, Pages 163-173

**Impact Factor:** 1.893 | **Quartile:** 1 | **Citations:** 48

**DOI:** doi.org/10.1016/j.engstruct.2015.03.045

**Fabrication and cyclic behavior of highly ductile superelastic shape memory composites** 2014

*Adeel Zafar Bassem Andrawes*

*Journal of Materials in Civil Engineering*, Volume 26, Number 4, Pages 622-632

**Impact Factor:** 1.296 | **Quartile:** 2 | **Citations:** 38

**DOI:** doi:10.1061/(ASCE)MT.1943-5533.0000797

**Experimental Flexural Behavior of SMA-FRP Reinforced Concrete Beam** 2013

*Adeel Zafar Bassem Andrawes*

*Frontiers of Structural and Civil Engineering*, Volume 7, Issue 4, Pages 341-355

**Impact Factor:** N/A | **Citations:** 42

**DOI:** doi:10.1007/s11709-013-0221-y

**Incremental dynamic analysis of concrete moment resisting frames reinforced with shape memory composite bars** 2012

*Adeel Zafar Bassem Andrawes*

*Smart Material and Structures* , Volume 21, Number 2, Article Number 025013

**Impact Factor:** 2.024 | **Quartile:** 1 | **Citations:** 44

**DOI:** doi:10.1088/0964-1726/21/2/025013

## Conference Proceedings

**Time Dependent Reliability Analysis of Reinforced Concrete Bridges including Deterioration Effects** 2016

*Hussam Mahmoud Adeel Zafar*

*Geotechnical and Structural Engineering Congress 2016*, res.country(233,)

**Citations:** N/A

**DOI:** 10.1061/9780784479742

**Application of Hybrid Composite Material for Improving Dynamic Response of Structures during Sequential Earthquakes – Manufacturing, Testing and Numerical Simulations** 2015

*Adeel Zafar Bassem Andrawes Mominah Adeel*

*10th International Conference on Composite Science and Technology*, res.country(183,)

**Citations:** N/A