

# Muhammad Bilal Idrees

Assistant Professor  
Military College of Engineering  
Email: mbidress@mce.nust.edu.pk  
Contact:



## About

Dr. Muhammad Bilal Idrees is working as Assistant Professor in the Military College of Engineering. Dr. Muhammad Bilal Idrees has a PhD in Environmental and Water Engineering. Dr. Muhammad Bilal Idrees has published 8 research articles & conference papers having a citation count of 117, carried out 0 projects and filed 0 intellectual property.

## Qualifications

|                                                                                          |             |
|------------------------------------------------------------------------------------------|-------------|
| <b>PhD in Environmental and Water Engineering</b><br>Hanyang University , South Korea    | 2017 - 2021 |
| <b>MSc in Water Resources Engineering</b><br>UET Lahore , Pakistan                       | 2013 - 2016 |
| <b>BS in Agricultural Engineering</b><br>University of Agriculture Faisalabad , Pakistan | 2008 - 2012 |

## Experience

|                                                               |               |
|---------------------------------------------------------------|---------------|
| <b>Assistant Professor</b><br>Military College of Engineering | 2023- Present |
| <b>Assistant Professor</b><br>Military College of Engineering | 2022 - 2023   |

## Research Articles

---

### Assessment of the morphological trends and sediment dynamics in the Indus River, Pakistan

2021

Muhammad Waseem Boota Chaode Yan Muhammad Bilal Idrees Ziwei Li Shan-e-hyder Soomro Ming Doud Muhammad Zohaib Ayesha Yousaf  
*Journal of Water and Climate Change*, Volume:12, Issue:7, Page:3082-3098

**Impact Factor:** 1.900 | **Quartile:** 3 | **Citations:** 12

**DOI:** 10.2166/wcc.2021.125

### Complementary Modeling Approach for Estimating Sedimentation and Hydraulic Flushing Parameters Using Artificial Neural Networks and RESCON2 Model

2021

Muhammad Bilal Idrees Jin-Young Lee Dongkyun Kim Tae-Woong Kim  
*KSCE Journal of Civil Engineering*, Volume:25, Issue:10, Page:3766-3778

**Impact Factor:** 2.115 | **Quartile:** 3 | **Citations:** 4

**DOI:** 10.1007/s12205-021-1877-9

### Comprehensive evaluation of machine learning models for suspended sediment load inflow prediction in a reservoir

2021

Muhammad Bilal Idrees Muhamma Jehanzaib Dongkyun Kim Tae-Woong Kim  
*Stochastic Environmental Research and Risk Assessment*, Volume 35, Issue 9, Pages:1805-1823

**Impact Factor:** 3.821 | **Quartile:** 1 | **Citations:** 36

**DOI:** <https://doi.org/10.1007/s00477-021-01982-6>

### Comprehensive Evaluation of Machine Learning Techniques for Hydrological Drought Forecasting

2021

Muhamma Jehanzaib Muhammad Bilal Idrees Dongkyun Kim Tae-Woong Kim  
*Journal of Irrigation and Drainage Engineering*, Volume 147, Issue 7, Article Number 04021022

**Impact Factor:** 1.976 | **Quartile:** 2 | **Citations:** 41

**DOI:** 10.1061/(ASCE)IR.1943-4774.0001575

### Estimating RESCON model parameters for efficient sediment flushing in a dam reservoir

2019

Muhammad Bilal Idrees Jin-Young Lee Tae-Woong Kim  
*Environmental Earth Sciences*, Volume 78, Issue 6, Article Number 224

**Impact Factor:** 2.180 | **Quartile:** 2 | **Citations:** 6

**DOI:** <https://doi.org/10.1007/s12665-019-8229-9>

### Comparing Water Management Categories of Green Building Rating Systems for Development of Evaluation Criteria of Watersheds

2018

Muhammad Bilal Idrees Jin-Young Lee Jae-Hyun Ahn Tae-Woong Kim  
*KSCE Journal of Civil and Environmental Engineering Research*, Volume 38, No. 6, Pages 1013-1020

**Impact Factor:** 0.0

**DOI:** <https://doi.org/10.12652/Ksce.2018.38.6.1013>

## Book Chapters

---

### Storage Depletion of Surface Water Reservoirs Due to Sediment Deposition and Possible Management Options

2023

Muhammad Bilal Idrees

In: *Book on Water and Environment for Sustainability - Case Studies from Developing Countries*, Chapter 8, Pages 131-144

**Citations:** N/A

**DOI:** 10.1007/978-3-031-27280-6\_8