



## Assist. Prof. Dr. MOHSEN SEYEDİ

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Mohsen Seyedi

JAC-2306-2023

### EDUCATIONAL INFORMATION

| Degree            | University                    | Department             | Year(s)     |
|-------------------|-------------------------------|------------------------|-------------|
| Doctoral Degree   | Istanbul Technical University | Earthquake Engineering | 2014 - 2021 |
| Master's Degree   | Mohaghegh Ardabili University | Earthquake Engineering | 2010 - 2012 |
| Bachelor's Degree | Mohaghegh Ardabili University | Civil Engineering      | 2004 - 2008 |

### RESEARCH AREAS

Geotechnical Earthquake Engineering

### ACADEMIC DUTIES

| Duty                                       | University          | Area              | Year(s) |
|--|---------------------|-------------------|---------|
| Vice Chair of Civil Engineering Department | Altınbaş University | Civil Engineering | 2023 -  |

### ADMINISTRATIVE DUTIES

| Duty | University | Year(s) |
|------|------------|---------|
|------|------------|---------|

### ACADEMIC AND PROFESSIONAL MEMBERSHIPS

| Organisation | Membership | Year(s) |
|--------------|------------|---------|
|--------------|------------|---------|

### NON-UNIVERSITY EXPERIENCE

| Country | Organisation | Duty | Year(s) |
|---------|--------------|------|---------|
|---------|--------------|------|---------|

### BOOKS

### ARTICLES

#### An Empirical Function to Predict the Liquefaction-Induced Uplift of Circular Tunnels

SEYEDİ MOHSEN

Transportation Infrastructure Geotechnology, 2024

[International](#) DOI: 10.1007/s40515-024-00400-y

#### Enhancing Geotechnical Properties of Clayey Soil with Recycled Plastic and Glass Waste

Adnan Shakir Al-Mohammedi Amenah, SEYEDİ MOHSEN

Revue des composites et des matériaux avancés, 2023

[International](#) DOI: 10.18280/rcma.330603

#### Numerical Analysis of Geogrids and Recycled Concrete Aggregate for Stabilizing Road Embankments

Abdulkareem Mohammed AL-DULAIMI Marwa, SEYEDİ MOHSEN

Annales de Chimie - Science des Matériaux, 2023

[International](#) DOI: 10.18280/acsm.470404

#### Partial Saturation as a Liquefaction Countermeasure: A Review

SEYEDİ MOHSEN, BAYAT ESRA ECE

Springer Science and Business Media LLC, 2021

[International](#) DOI: 10.1007/s10706-021-01926-5

## ARTICLES

### **An alternative empirical function to predict air–water mixture bulk modulus for numerical modeling of liquefaction behavior of induced partially saturated sands**

SEYEDİ MOHSEN, BAYAT ESRA ECE  
Springer Science and Business Media LLC, 2021  
[International](#) DOI: 10.1007/s10518-021-01058-4

### **A Numerical Assessment of the Efficiency of Partial Saturation as a Countermeasure Against Liquefaction-Induced Uplift of Tunnels**

S Duraid Abdullah Al-Khateeb, M Jasim Khammas Issa, Mohsen Seyedi  
Journal of Earthquake Engineering, 2025  
[International](#) DOI: <https://doi.org/10.1080/13632469.2024.2434528>

### **Impact of train-induced vibrations on residents' comfort and structural damages in buildings**

Mohsen Seyedi  
Journal of Vibration Engineering & Technologies, 2024  
[International](#) DOI: <https://doi.org/10.1007/s42417-024-01513-x>

### **Numerical evaluation of pile-driving-induced vibrations in soil and their impact on adjacent structures**

Marwan Abdelsalam , Mohsen Seyedi  
Journal of Civil and Hydraulic Engineering, 2025  
[International](#) DOI: <https://doi.org/10.56578/jch e030103>

### **Assessment of Haditha Dam Surface Area and Catchment Volume and Its Capacity to Mitigate Flood Risks for Sustainable Development**

Raad F Hasan, Mohsen Seyedi, Riyadh Alsultani  
Mathematical Modelling of Engineering Problems, 2024  
[International](#) DOI: 10.18280/mmep.110728

### **Dynamic responses of embankment dams, constituted from varied soil types, to seismic activity**

Mohammad Shouib Anwar Khan , Mohsen Seyedi  
Acadlore Transactions on Geosciences, 2023  
[International](#) DOI: <https://doi.org/10.56578/atg 020305>

### **An Assessment of a Modal Pushover Method Based On 2DOF Modal System for Tall Asymmetric-Plan Buildings**

Seyyed Mohsen Seyyedi Viand, Kazem Shakeri, Hossein Vakili, Mehrdad Azadi Hir  
Journal of Civil Engineering and Urbanism, 2013  
[International](#)

### **An Investigation of Efficiency and Accuracy of Energy-Based Capacity Spectrum in Estimating the Seismic Demands of Buildings**

Hossein Vakili, Kazem Shakeri, Seyed Mohsen Seyedi Viand, Mehrdad Azadi Hir  
Journal of Civil Engineering and Urbanism, 2013  
[International](#)

## PROCEEDINGS

### **Numerical Modelling of Liquefaction Tests of Partially Saturated Sands in CSSLB**

SEYEDİ MOHSEN, BAYAT ESRA ECE  
Advances in Laboratory Testing and Modelling of Soils and Shales, 2017  
[International](#)

### **DEPREMDEN ETKİLENEEN TÜNEL ZEMİNİNİN DİNAMİK DAVRANIŞI**

ÖZASLAN BİLAL, KARADOĞAN ÜMİT, SEYEDİ MOHSEN, Evrim GÜLEY Evrim, Massahfard Maryam,  
MOKHBERIOSKOU EI LEILA, ERKEN AYFER  
Doğal Afet ve Afet Yönetimi Sempozyumu (DAAYS'16), 2016  
[National](#)

## PROCEEDINGS

### Numerical modelling of liquefaction tests of fully saturated sands in CSSLB

SEYEDI MOHSEN, BAYAT ESRA ECE

4 th International Conference on New Developments in Soil Mechanics and Geotechnical Engineering, 2016

International

## PROJECTS

### The Dynamic Behavior of Liquefiable Soils Under Existing or New Buildings Improved by "Induced Partial Saturation (IPS)" Method to Prevent Liquefaction During an Earthquake (Researcher)

TÜBİTAK Project, 01.09.2015 - 29.07.2017

National Completed

## THESIS SUPERVISION

### Dynamic response of foundation under vibrating machines

ISMAEL AMADOU DJIBO

2024 Master's Degree

### Numerical modelling of flow through an embankment using plaxis 2d

MOHAMMAD SHOUIB ANWAR KHAN

2024 Master's Degree

### TRAIN-INDUCED VIBRATION IN BRIDGE PIERS

FATİH ÇAKTUR

2024 Master's Degree

### Numerical assessment of tunnel shape for liquefaction- induced uplift

SAMI BAKOUR

2023 Master's Degree

### Using BIM tools to design connections between the foundation to the industrial structures

SARAH DAHHAM SALIM

2023 Master's Degree

### Performance management of green sustainable building based on topsis technique

HUSSEIN HAMID JAWAD

2023 Master's Degree

### Monitoring and evaluating risk effect in construction project in Iraq using multi-criteria decision

MOHAMMED JASIM ISSA

2023 Master's Degree

### Measurement and ranking of human factors affecting the increase in cost and time of construction projects in Bbaghdad using ahp and topsis techniques

MOHAMMED HAMMADI

2023 Master's Degree

### Using modern technologies in preparing construction project schedules

HADEEL SAFAA HAMDI

2023 Master's Degree

### Building project evaluation based on period and expenditures relationship

BAYDAA ALAZZAWI

2023 Master's Degree

### The role of conceptual safety management in the construction project and its impact on productivity

DOAA JAWAD

2023 Master's Degree

## THESIS SUPERVISION

### Numerical simulation of different methods for road embankment stabilization

MARWA ABDULKAREEM MOHAMMED AL-DULAIMI

2023 Master's Degree

### The effect of variation orders on claims under construction contracts in Iraq

DINA KAMAL

2023 Master's Degree

### Civil project management and its impact on the implementation of infrastructure projects in Iraq - Salah Al-Din case study

OBAYDA AL MULEES

2023 Master's Degree

### Numerical study to evaluate the lateral resistance of pile embedded in Basra soil

HAIDER MAJEED HASSAN AL-ABYAWI

2023 Master's Degree

### Numerical modelling of mitigation of liquefaction – induced uplifts in tunnels

AHMED J S SULAIMAN

2022 Master's Degree

### Analysis and modelling the hydrological performance of reservoirs in north of Iraq

HAYDER AL KHAFAJI

2022 Master's Degree

## COURSES

| Course Type       | Course Code | Course Name                            |
|-------------------|-------------|--|
| Bachelor's Degree | İNŞ350      | TEMEL MÜHENDİSLİĞİ                     |
| Bachelor's Degree | İNŞ311      | ZEMİN MEKANİĞİ                         |
| Bachelor's Degree | CVE333      | STRENGTH OF MATERIALS II               |
| Bachelor's Degree | CVE236      | STRENGTH OF MATERIALS FOR ARCHITECTURE |
| Bachelor's Degree | CVE350      | FOUNDATION ENGINEERING                 |
| Bachelor's Degree | CVE203      | EARTH SCIENCES FOR CIVIL ENGINEERING   |
| Bachelor's Degree | CVE221      | CIVIL ENGINEERING MATERIALS            |
| Bachelor's Degree | CVE102.1    | ENGINEERING MECHANICS I                |
| Master's Degree   | CVE525      | ADVANCED FOUNDATION ENGINEERING        |
| Master's Degree   | CVE599      | MASTER THESIS                          |

## PERSONAL INFORMATION

### CONTACT INFORMATION

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