

## Asst. Prof. MEHMET ONUR DOĞAN

### Personal Information

Office Phone: [+90 312 210 5663](tel:+903122105663)

Email: [doganon@metu.edu.tr](mailto:doganon@metu.edu.tr)

Web: <https://avesis.metu.edu.tr/doganon>

Address: ODTÜ - Department of Petroleum and Natural Gas Engineering

### International Researcher IDs

ScholarID: rEnfesQAAAAJ

ORCID: 0000-0002-9043-6187

Publons / Web Of Science ResearcherID: L-7937-2017

ScopusID: 35758531300

Yoksis Researcher ID: 252588

### Biography

#### KİŞİSEL BİLGİLER

Uyruk : T.C.

Doğum tarihi : 01 Ocak, 1980

Askerlik durumu : Tamamlandı

Medeni durumu : Evli , 2 çocuk babası

#### KİŞİSEL PROFİL

Gözenekli yapıda çok fazlı akışkanların sayısal modellenmesinde uzman, Dr. Mühendis

#### EĞİTİM BİLGİLERİ

**Mart 2007 - Aralık 2010 :Doktora, Stuttgart Üniversitesi İnşaat ve Çevre Mühendisliği,** Doktora Tezi: Gözenekli ortam akımıyla boru akımını eşleştirmek için simulasyon modeli geliştirilmesi (Alman Araştırma Birliği DFG destekli), Derecesi: çok iyi.

**Auğ. 2005 - Şubat 2007 :Araştırma Görevlisi, Stuttgart Üniversitesi İnşaat ve Çevre Mühendisliği,** CO<sub>2</sub>-TRAP Projesi: Terkedilmiş kömür yataklarına karbondioksit depolanması işleminin sayısal analizi (Federal Almanya Eğitim ve Araştırma Bakanlığı(BMBF) ve Alman Araştırma Birliği DFG destekli).

**Ocak 2005 - Mayıs 2005 :Araştırma Görevlisi, Stuttgart Üniversitesi İnşaat ve Çevre Mühendisliği,** Tez Sonrası Proje: Jeolojik formasyonlarda gaz akışının sayısal modellenmesi (Deutsche Montan Technologie destekli )

**Eylül 2002 - Aralık 2004 :Hidrolik Mühendisliği Yüksek Lisansı, Stuttgart Üniversitesi,** Yüksek Lisans Tezi: Madenlerdeki gaz akışının sayısal modellenmesi (IPSWAT bursu destekli), Derecesi: 1.3 (maks 1.0).

**Eylül 1997 - Haziran 2002 : İnşaat Mühendisliği Lisans Eğitimi, ODTÜ,** Derecesi: 3.6 (maks. 4.0).

**Eylül 1990 - Ocak 1997 : Ankara Anadolu Lisesi (Almanca),** Derecesi: 4.7 (maks. 5.0).

## Education Information

Doctorate, Universitaet Stuttgart, Civil and Environmental Engineering, Department of Hydromechanics and Modelling of Hydrosystems, Germany 2005 - 2010

Postgraduate, Universitaet Stuttgart, Civil and Environmental Engineering, Department of Hydromechanics and Modelling of Hydrosystems , Germany 2002 - 2004

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1997 - 2002

## Foreign Languages

English, C2 Mastery

German, C1 Advanced

## Dissertations

Doctorate, Coupling of Porous Media Flow with Pipe Flow, Universitaet Stuttgart, Civil and Environmental, Department of Hydromechanics and Modelling of Hydrosystems, 2010

Postgraduate, Modeling of mine gas repositories, Universitaet Stuttgart, Civil and Environmental Engineering, Department of Hydromechanics and Modelling of Hydrosystems, 2004

## Research Areas

Engineering and Technology

## Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2019 - Continues

Research Assistant, Universitaet Stuttgart, Civil and Environmental Engineering, 2007 - 2010

Research Assistant, Universitaet Stuttgart, Civil and Environmental Engineering, Department of Hydromechanics and Modelling of Hydrosystems, 2005 - 2007

Researcher, Universitaet Stuttgart, Civil and Environmental Engineering, Department of Hydromechanics and Modelling of Hydrosystems, 2005 - 2005

## Academic and Administrative Experience

Performans Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2021 - Continues

Remote Education Coordinator, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2020 - Continues

Kalite/Açık Erişim Koordinatörü, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2020 - Continues

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2020 - Continues

Bölüm Stratejik Plan Komisyonu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Petroleum and Natural Gas Engineering, 2020 - Continues

Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Middle East Technical University, Faculty of Engineering,  
Department of Petroleum and Natural Gas Engineering, 2020 - 2022

## Courses

Natural Gas Engineering, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Introduction to Fluid Mechanics, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017

Transport Phenomena in Geosystems, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018

Numerical Reservoir Simulation I, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018

Fluid Mechanics, Undergraduate, 2015 - 2016

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Extended Multiple Interacting Continua (E-MINC) Model Improvement with a K-Means Clustering Algorithm Based on an Equi-dimensional Discrete Fracture Matrix (ED-DFM) Model**  
DOĞAN M. O.  
MATHEMATICAL GEOSCIENCES, 2023 (SCI-Expanded)
- II. **Different concepts for the coupling of porous-media flow with lower-dimensional pipe flow**  
Dogan M. O., Class H., Helmig R.  
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.53, no.3, pp.207-233, 2009 (SCI-Expanded)

## Metrics

Publication: 17

Citation (WoS): 4

Citation (Scopus): 4

H-Index (WoS): 1

H-Index (Scopus): 1

## Non Academic Experience

Company, Aspilsan Energy Cooperation, Research and Development

Company, ENERJISA Energy Generation Company, Engineering Design