Reza SHABANI, Ph.D.

Assistant Professor of Civil Engineering

Atilim University

Department of Civil Engineering

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**PERSONAL**

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| --- | --- |
| Date of Birth | 1977 |
| **Place of Birth** | Ahvaz |

# EDUCATION

|  |  |
| --- | --- |
| 2012-2020 | Middle East Technical University, Civil Engineering, Ph.D. |
| 2002-2004 | Azad University of Tehran, Civil Engineering, M.Sc. |
| 1995-2000 | Azad University of Tehran, Civil Engineering, B.Sc.  |

# ACADEMIC POSITIONS

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| --- | --- |
| February/2022-February/2024 | Assistant Professor, Department of Civil Engineering,Atilim University, Ankara, Turkey. |
| **March /2021-January/2022** | Postdoctoral Researcher,Department of Civil Engineering,Middle East Technical University, Ankara, Turkey. |
| **March/2017-****February/2020** | Project Assistant, Department of Civil Engineering,Middle East Technical University, Ankara, Turkey. |

**RESEARCH INTERESTS**

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| --- | --- |
| 1 | Experimental Characterization of Asphalt Mixtures and Binders  |
| **2** | Pavement Modeling, Design, Analysis, Rehabilitation, and Management Systems |
| **3** | Design and Characterization of Roller Compacted Concrete Pavements |

**PROFESSIONAL SERVICE**

|  |  |
| --- | --- |
| 2007-2012 | Senior Estimator/Tender Engineer, Abad Rahan Pars. Co.  |
| **2005-2007** | Design Engineer, Haraz Rah. Co. |
| **2003-2004** | Civil Engineer, Ancrage. Co. |

**PUBLICATIONS**

|  |  |
| --- | --- |
| 1 | R. Shabani, E. Sengun, H.I. Ozturk, I.O. Yaman, The Effect of Mixture Variables on Surface characteristics of Roller Compacted Concrete, Teknik Dergi, September 2021, Vol. 32, Issue 5, p11153-11174 |
| **2** | R. Shabani, E. Sengun, Overview of condition indicators and evaluation methods used to quantify concrete pavements characteristics, Cement and Concrete World, June 2021, Vol. 26, Issue 151, p56-74 |
| **3** | R. Shabani, E. Sengun, H.I. Ozturk, B. Alam, I.O. Yaman, Superpave gyratory Compactor as an Alternative Design Method for Roller Compacted Concrete (RCC) in Laboratory, Journal of Materials in Civil Engineering, Vol.33, Issue 6, June 2021 |
| **4** | E. Sengun, B. Alam, R. Shabani, I.O. Yaman, Strength and Fracture Properties of Roller Compacted Concrete (RCC) Prepared by an In-situ Compaction Procedure, Construction and Building Materials, Vol.271, February 2021, 121563.  |
| **5** | 1. E. Sengun, B. Alam, R. Shabani, I.O. Yaman, The effects of compaction methods and mix parameters on the properties of roller compacted concrete mixtures, Construction and Building Materials, [Vol.228](https://www.sciencedirect.com/science/journal/09500618/228/supp/C), December 2019, 116807. |

**PROJECTS**

|  |  |
| --- | --- |
| 1 | Low Temperature Behavior of SMA and HMA Mixtures TÜBITAK 1002 -Scientific and Technological Research Funding Program, Principal İnvestigator, Project No: 122M956, 2023-2024.  |
| 2 | Durability and aging behavior of asphalt mixtures modified by Nano-Alumina, BAD project Sponsored by Atilim University, Principal İnvestigator, Project No: ATÜ-BAD-2223-01, 2022-2023. |
| 3 | Design of Roller Compacted Concrete with High Performance Cylinders and Development of Laboratory Applications to Simulate Real Field Conditions, TUBITAK 1001 -Scientific and Technological Research Funding Program, Researcher, Project No: 116M5231, 2017-2019.  |
| **4** | Investigation of Reclaimed Asphalt Pavement Using Finite Element Method, BAP Project funded by Middle East Technical University, Researcher, Project No: DKT-303-2018-3696, 2019. |
| **5** | Istanbul Airport Pavement Design, Sponsored Project, Researcher, Project No:2019-03-03-1-00-164, 2019. |

# CONFERENCE PRESENTATIONS

|  |  |
| --- | --- |
| 1 | R. Shabani, E. Sengun, H.I. Ozturk, B. Alam, I.O. Yaman, Evaluation of Superpave Gyratory Compaction Method for Roller Compacted Concrete Mixture Design, TRB 98th Annual Meeting, Washington, Kiribati, 13 - 17 January 2019 |
| **2** | E. Sengun, M.Aykutlu, RShabani. B. Alam, I. O.Yaman,Ö. [Comparison OF Laboratory Practices For Roller omapcted Concrete Pavements](https://avesis.aybu.edu.tr/publication/details/bb795d63-075e-46c8-bb18-fb9b5676da6a/comparison-of-laboratory-practices-for-roller-compacted-concretepavements), 13th International Symposium on Concrete Roads,Berlin, 19 - 22 June 2018 |
| **3** | E. Sengun, R. Shabani, B. Alam, M.A. Aykutlu, I.O. Yaman, Comparison of Several Laboratory Compaction Practices Applied on Roller Compacted Concrete Pavements, 13th International Congress on Advances in Civil Engineering, Izmir/TURKEY, 12-14 September 2018. |
| **4** | E. Sengun, R. Shabani, B. Alam, I.O. Yaman, Priz Geciktirici ve Akışkanlaştırıcı Katkıların Taze ve Sertleşmiş Silindirle Sıkıştırılmış Beton Özelliklerine Etkisi, Bursa/Turkey, 02 - 04 May 2019, p.437-446. |

**CITATIONS**

|  |  |
| --- | --- |
| Sum of times cited without self-citations (ISI Web of Science):  | 52 |
| H-index (ISI Web of Science):  | 3 |
| Sum of times cited without self-citations(Google Scholar): | 85 |
| H-index (Google Scholar): | 4 |

**COURSES GIVEN**

|  |  |
| --- | --- |
| 1 | CE210-Civil Engineering Materials, Atilim University (B.s) |
| 2 | CE 335-Transportation Engineering, Atilim University(B.s) |
| 3 | CE 407- Highway Materials and Mixture Design, Atilim University(B.s) |
| 4 | CE 515 – Analysis and Design of Flexible and Rigid Pavements, Atilim University(M.s) |
| 5 | CE241-Material Science for Civil Engineers, Başkent University (B.s) |

**THESIS SUPERVISED**

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| --- | --- |
| 1 | M.Sc. Thesis, “Durability and Low Temperature Performance of Asphalt Mixtures Modified by hydrophobic and hydrophilic Nano-Alumina” with Maryam Khooshechin Gilak, 2023. |
| 2 | M.Sc. Thesis, “Comparative study on Low Temperature Performance of Stone Matrix Asphalt and Dense Graded Hot Mix Asphalt” with Asif Ahmad, 2024. |
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 **20.02.2024**