

EDUCATION

- Ph.D. (2018)** : *Geological Engineering*, Middle East Technical University (***ABET-Europass***)
- M.Sc. (2007)** : *Mining Engineering*, Hacettepe University (***EUR-ACE***)
- M.Sc. (2001)** : *MBA*, Ankara University
- B.Sc. (1997)** : *Geological Engineering*, Hacettepe University (***EUR-ACE***)

WORK EXPERIENCE

- 2025 –** : Associate Teaching Professor, Missouri University of Science and Technology
- 2021 – 2025** : Head of Department, General Directorate of Highways (***GDH***)
- 2017 – 2023** : Assistant Professor, Ankara University
- 2015 – 2021** : Internal Auditor, GDH, Internal Audit Unit
- 2011 – 2015** : Geological and Geotechnical Surveys Chief, GDH, Research and Development Dep.
- 2001 – 2011** : Geological and Geotechnical Survey Eng., GDH, Research and Development Dep.
- 1997 – 2001** : Engineering Geology Engineer, GDH, Research and Development Department

ACADEMIC STUDIES**Graduate thesis**

1. Satici O., 2018, *Assessment of Plastic Zone Thickness and Convergences for Tunnels Excavated in Weak to Fair Quality Rocks in Turkey*, Doctor of Philosophy Thesis, Middle East Technical University, Ankara
2. Satici O., 2007, *Stability Analysis of T4 (Küçükbelvar) Tunnel on Kavak-Merzifon Road*, Master of Science Thesis, Hacettepe University, Ankara
3. Satici O., 2002, *The Effect of Culture on The Performance of Turkish Public Employees and The Operation of Public Organizations*, Master of Science Thesis, Ankara University, Ankara

International peer-reviewed journals

1. Satici O., Satici E., 2024, *Theoretical semi-quantitative risk assessment methodology for tunnel design and construction processes*, International Journal of System Assurance Engineering and Management, <https://doi.org/10.1007/s13198-024-02348-1> (**Q2 index**)
2. Satici O., Topal, T., 2021, *Assessment of Damage Zone Thickness and Wall Convergence for Tunnels Excavated in Strain-Softening Rock Masses*, Tunneling and Underground Space Technology, v108, 103722, <https://doi.org/10.1016/j.tust.2020.103722> (**Q1 index**)
3. Satici O., Topal, T., 2020, *Prediction of tunnel wall convergences for NATM tunnels which are excavated in weak-to-fair-quality rock masses using decision-tree technique and rock mass strength parameters*, Springer, SN Applied Sciences, 2:546, <https://doi.org/10.1007/s42452-020-2311-5> (**Q2 index**)
4. Satici O., Unver, B., 2015, *Assessment of Tunnel Portal Stability at Jointed Rock Mass: A Comparative Case Study*, Computers and Geotechnics, v64, p.72–82, <https://doi.org/10.1016/j.compgeo.2014.11.002> (**Q1 index**)

National peer-reviewed journals

1. Satici O., 2024, *Limitations in Tunnel Portal Design: An Evaluation Using Numerical Models and Line Surveys*, Journal of Geological Engineering, v48, p1-18, <https://doi.org/10.24232/jmd.1385219> (Scopus, Google Scholar, TUBITAK-ULAKBIM, TR index)
2. Satici O., 2024, *Risk Assessment Based Application Model for Design, Construction and Operational Stages for Conventionally Excavated Railway Tunnels*, Journal of Railway Engineering, <https://doi.org/10.47072/demiryolu.1384548> (TR index, ULAKBIM, SOBIAD)
3. Akis E., Satici O., 2017, *Underground Structures, Rock Structures and Rock Mechanics from Ancient Era to the Modern Age*, Journal of Geological Engineering, v41, p.155-172, <https://doi.org/10.24232/jmd.344499> (Scopus, Google Scholar, TUBITAK-ULAKBIM, TR index)
4. Satici O., Topal, T., 2015, *Evaluation of Tunnel Excavation Methods in Accordance with Engineering Geology and Rock Mass Classification Systems*, Journal of Geological Engineering, v39, p.45-57, <https://doi.org/10.24232/jeoloji-muhendisligi-dergisi.295353> (Scopus, Google Scholar, TUBITAK-ULAKBIM, TR index)

Books

- Satıcı O., 2021, *Projeler Nasıl Başarılı Olur, Mühendisler İçin Risk Yönetim Rehberi (How the Projects Get Success, Risk Management Guide for Engineers)*, Seçkin Yayıncılık (International Publishing Company), Ankara, p154, ISBN: 978 975 02 6843 4

Book chapters

- Editor: Karabacak, H., 2021, *Uzmanların Kaleminden Farklı Boyutlarıyla Risk ve Risk Yönetimi (Risk and Risk Management in Different Dimensions, From the Perspective of Experts)*, Gazi Kitabevi, Ankara, p358, ISBN: 978 625 7588 93 5

International symposium and congress

1. Satıcı O., 2024, *Risk Assessment-Based Novel Tunnel Construction Methodology Integrating Geotechnical Parameters and Field Measurements in Conventional Tunnel Excavations*, International Road Federation, IRF World Congress 2024, 15-18 October, Istanbul, TURKIYE
2. Satıcı O., 2015, *Effects of Paleo-Rock Landslide and Heavy Rainfalls to Tunnel Excavation*, SEE Tunnel: Promoting Tunneling in SEE Region ITA WTC 2015 Congress and 41st General Assembly May 22-28, Lacroma Valamar Congress Center, Dubrovnik, Croatia
3. Altuntas H.D., Bayram A., Tunay I.G., Gencoglu C., Satıcı O., 2015, *Planning and Designing the Izmir Bay Crossing and Connections*, SEE Tunnel: Promoting Tunneling in SEE Region ITA WTC 2015 Congress and 41st General Assembly May 22-28, Lacroma Valamar Congress Center, Dubrovnik, Croatia

National symposium and congress

1. Sirin A., Satıcı O., Akman, M.K., Tunay, I.G., 2015, *Geological-Geotechnical Investigation Studies and Preliminary Design of Izmir Bay Crossing Project*, 68th Geological Congress of Turkey, April 6-10, Ankara
2. Sirin A., Satıcı O., 2014, *Geological and Geotechnical Ground Studies For 3rd Bosphorus Bridge*, ROCKMEC'2014-XIth, Regional Rock Mechanics Symposium, Afyonkarahisar, Turkey

Examined thesis and reviewed articles

1. Geotechnical and Geological Engineering, *Evaluation of Errors and Uncertainties in Debris Flow Modeling with RAMMS*, 2024
2. Bulletin of Engineering Geology and the Environment, *Study on Mechanism and Prevention for Instability of Shallow-buried and Bedding-biased-pressure Tunnel Portal Slope*, 2024
3. Journal of Underground Space, *Deformation Control Method for Large-Section Tunnel Construction in Fractured Carbonaceous Slate – A Case Study*, 2021
4. Journal of Geotechnical and Geological Engineering, *Rock Mass Characterization using Polynomial Functions*, 2020
5. Arabian Journal of Geosciences, *Analytical Model of Borehole Breakout Damage Zone Using Hoek-Brown and Fairhurst Failure Criteria*, 2020
6. Journal of Geological Engineering, *Geotechnical Evaluation and Support System of Portal Regions of Right Tube of the Guneyce Highway Tunnel*, 2019
7. Environmental Engineering and Management Journal, *Environmental Load Estimating Model for NATM Tunnel Using Case Based Reasoning*, 2016
8. Arabian Journal of Geosciences, *Quantitative Risk Geological Assessment for the Shallow NATM Tunnel Excavation Based on the On-Site Surface Site Investigation Data*, 2015
9. METU, Master of Science Thesis, *Verification of Empirically Determined Support Systems of the Kiliclar Highway Tunnel by Numerical Modeling*, 2011

AWARDS

- Turkish Road Association, 2021 Article Award, "Assessment of Damage Zone Thickness and Wall Convergence for Tunnels Excavated in Strain-Softening Rock Masses"