

# Prof. SAMİ OĞUZHAN AKBAŞ

## Personal Information

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## International Researcher IDs

ScholarID: nYcdMh0AAAAJ

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ScopusID: 35104310000

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## Education

Doctorate, Cornell University, İnşaat Mühendisliği, United States Of America 2002 - 2007

Postgraduate, Cornell University, United States Of America 1998 - 1999

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1993 - 1997

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Deterministic and probabilistic assessment of settlements of shallow foundations in cohesionless soils, Cornell University, İnşaat Mühendisliği, 2007

## Research Areas

Geotechnical, Foundation Engineering, Soil Mechanics, Underground Construction, Deep Excavation, Ground Improvement, Soil Dynamics

## Academic Positions

Professor, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2018 - Continues

Associate Professor, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2011 - 2018

Assistant Professor, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2009 - 2011

Research Assistant, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2001 - 2009

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 1997 - 1998

## Academic and Administrative Experience

## Supervised Theses

- AKBAŞ S. O., Evaluation Of Spt - Soil Strength And Compressibility Correlations For Cohesive Soil Conditions In Turkey, Postgraduate, E.Tuç(Student), 2019
- AKBAŞ S. O., Application Of Finite Element Method In Geotechnical Risk Analysis: An Application For Supported Deep Excavations, Postgraduate, S.Bozkurt(Student), 2019
- AKBAŞ S. O., Comparative Investigation Of Time Dependent Consolidation Behavior Of The Embankment St:241+200 Of Northern Marmara Highway Project With Land Measurements And Numerical Modeling, Postgraduate, B.KILIÇOĞLU(Student), 2019
- AKBAŞ S. O., Geoteknik risk analizinde sonlu elemanlar teorisinin kullanımı: Destekli derin kazılar için bir uygulama, Postgraduate, S.BOZKURT(Student), 2019
- AKBAŞ S. O., A Comparison Of Instrumental And Classical Pile Load Results: Example From Ankara-Sivas Railway Project, Postgraduate, C.KANDEMİR(Student), 2019
- AKBAŞ S. O., Kohezyonlu zeminler için önerilen SPT ile zemin dayanımı ve sıkışabilirlik özellikleri arasındaki ilişkilerin Türkiye zemin koşulları için irdelenmesi, Postgraduate, E.TUÇ(Student), 2019
- AKBAŞ S. O., Zemin çivileriyle güçlendirilmiş iksa yapılarında sistem performansını ve güvenilirliğini etkileyen faktörlerin vaka analizleri ile araştırılması, Postgraduate, A.SELİN(Student), 2017
- AKBAŞ S. O., Gömülü iletim hattı yapılarında darbe etkilerinin geosentetikler vasıtası ile azaltımı, Doctorate, G.BABAGİRAY(Student), 2017
- AKBAŞ S. O., A Study On The Reduction Of Impact Effects On Buried Lifeline System Components By Geosynthetics, Doctorate, G.Babagiray(Student), 2017
- AKBAŞ S. O., Comparison Of The Instrumentation Results Obtained From Supported Deep Excavation Case Histories With Finite Element Analyses, Postgraduate, C.RUHİ(Student), 2017
- AKBAŞ S. O., Derin karıştırma kolonlarının ölçülen ve hesaplanan kapasitelerinin tam ölçekli yükleme deneyleri ile incelenmesi, Postgraduate, Z.KAYA(Student), 2016
- AKBAŞ S. O., Kırıkkale şehir merkezinin deprem risk analizi ve sismik mikrobölgelemesi, Doctorate, Y.BÜLENT(Student), 2016
- AKBAŞ S. O., A Study On The System Performance And Reliability Of Soil Nail Walls Using Case Histories, Postgraduate, A.Selin(Student), 2016
- AKBAŞ S. O., An Assessment Of Measured And Calculated Capacities Of Deep Mixing Columns Using Full Scale Load Test Results, Postgraduate, Z.Kaya(Student), 2016
- AKBAŞ S. O., Application Of Random Field Finite Element Method In Geotechnical Risk Analysis: An Application For Shallow Foundations, Postgraduate, E.TÜRK(Student), 2014
- AKBAŞ S. O., Assessment of the reinforcing effect of geogrids on eccentrically loaded foundations, Postgraduate, S.FARSHAD(Student), 2013
- AKBAŞ S. O., Experimental and numerical investigation of the behavior of eccentrically loaded shallow foundations on cohesionless soils reinforced with geogrid layers, Doctorate, A.CEM(Student), 2013
- ANIL Ö., AKBAŞ S. O., Investigation of stress distribution and settlement profiles of different shaped foundations with experimental and finite elements analysis method, Postgraduate, S.BABAGİRAY(Student), 2012
- AKBAŞ S. O., The comparison of the calculated and observed behavior of an achoreged retaining wall, Postgraduate, H.KARATAĞ(Student), 2012
- ÜNSAL N., AKBAŞ S. O., Reliability based design optimization of foundations and reliability based design of shallow foundations considering earthquake loading in cohesionless soils, Doctorate, E.TEKİN(Student), 2012
- AKBAŞ S. O., Estimation of vulnerability against snow avalanches for village- type Turkish buildings, Postgraduate, E.DURAK(Student), 2011
- AKBAŞ S. O., Liquefaction analysis of city of Ardebil-Iran, Postgraduate, S.ASIABI(Student), 2010
- AKBAŞ S. O., Investigation of bearing capacity estimation methods and the effect of rigid layer for rigid shallow

foundations on cohesionless soils, Postgraduate, G.BABAGIRAY(Student), 2010

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Teknik Üniversitesi, September, 2022

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **AI-Supported probabilistic steady-state and transient seepage analysis of an embankment dam with clay core: A case study on Büyükçekmece Dam**  
GÜNAY A., AKBAŞ S. O.  
Engineering Geology, vol.351, 2025 (SCI-Expanded)
- II. **Reliability and Validity Analysis of Correlations on Strength and Consolidation Parameters for Ankara Clay and Proposal for a New Correlation**  
Tuç E., Akbaş S. O., Babagiray G.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.2, no.2, pp.20-31, 2024 (SCI-Expanded)
- III. **Unleashing the Potential of a Hybrid 3D Hydrodynamic Monte Carlo Risk Model for Maritime Structures' Design in the Imminent Climate Change Era**  
Uğurlu A., Balas E. A., BALAS C. E., AKBAŞ S. O.  
Journal of Marine Science and Engineering, vol.12, no.6, 2024 (SCI-Expanded)
- IV. **Case study of a foundation failure induced by cyclic softening of clay during the 2023 Kahramanmaraş earthquakes**  
Tonyalı İ., AKBAŞ S. O., Beyaz T., KAYABALI K., GÖKÇEOĞLU C.  
Engineering Geology, vol.332, 2024 (SCI-Expanded)
- V. **Type and Layout Arrangement of Geosynthetics for Enhancing Energy Dissipation on Buried Pipes Under Impact Loads**  
Babagiray G., AKBAŞ S. O., Anil O.  
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.22, no.2, pp.317-331, 2024 (SCI-Expanded)
- VI. **Full-Scale Field Impact Load Experiments on Buried Pipes in Geosynthetic-Reinforced Soils**  
BABAGIRAY G., Oguzhan Akbas S. O., ANIL Ö.  
TRANSPORTATION GEOTECHNICS, vol.38, 2023 (SCI-Expanded)
- VII. **INVESTIGATION OF THE IMPACT BEHAVIOR WHEN USING SINGLE AND DOUBLE LAYERS OF GEOSYNTHETICS ON BURIED PIPE STRUCTURES**  
Babagiray G., Akbaş S. O., Anil Ö.  
ACTA GEOTECHNICA SLOVENICA, vol.2021, no.2, pp.83-104, 2021 (SCI-Expanded)
- VIII. **Expanded Database Assessment of Design Methods for Spread Foundations under Axial Compression and Uplift Loading**  
Tang C., Phoon K., Li D., AKBAŞ S. O.  
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.146, no.11, 2020 (SCI-Expanded)
- IX. **Predicting groutability of granular soils using adaptive neuro-fuzzy inference system**  
TEKİN E., AKBAŞ S. O.  
NEURAL COMPUTING & APPLICATIONS, vol.31, no.4, pp.1091-1101, 2019 (SCI-Expanded)
- X. **Linear and nonlinear site response analyses to determine dynamic soil properties of Kirikkale**  
Sonmezer Y. B., BAŞ S., IŞIK N. S., AKBAŞ S. O.  
GEOMECHANICS AND ENGINEERING, vol.16, no.4, pp.435-448, 2018 (SCI-Expanded)
- XI. **Effects of the use of the surface spectrum of a specific region on seismic performances of R/C structures**  
Sonmezer Y. B., KALKAN İ., BAŞ S., AKBAŞ S. O.

- NATURAL HAZARDS, vol.93, no.3, pp.1203-1229, 2018 (SCI-Expanded)
- XII. **Seismic risk estimation of the Kirikkale province through street survey based rapid assessment method (SSRA)**  
Sonmezer Y. B., BAŞ S., AKBAŞ S. O.  
EARTHQUAKES AND STRUCTURES, vol.14, no.6, pp.615-626, 2018 (SCI-Expanded)
- XIII. **A Numerical Modelling Based Parametric Study on the Bearing Capacity of Shallow Foundations on Cohesionless Soils Underlain by a Shallow Rigid Layer**  
Babagiray G., Akbaş S. O.  
TEKNIK DERGI, vol.29, no.1, pp.8185-8198, 2018 (SCI-Expanded)
- XIV. **Investigation of the impact behavior of steel and composite pipes with protective layer**  
ANIL Ö., AKBAŞ S. O., Gezer O., Yilmaz M. C.  
STRUCTURAL CONCRETE, vol.18, no.3, pp.421-432, 2017 (SCI-Expanded)
- XV. **Experimental and finite element analyses of footings of varying shapes on sand**  
ANIL Ö., AKBAŞ S. O., Babagiray S., Gel A. C., Durucan C.  
GEOMECHANICS AND ENGINEERING, vol.12, no.2, pp.223-238, 2017 (SCI-Expanded)
- XVI. **ASSESSMENT OF THE PEAK ACCELERATION, AMPLIFICATION RATIO AND FUNDAMENTAL PERIOD PROPERTIES FOR THE KIRIKKALE PROVINCE SETTLEMENT AREA**  
Sonmezer Y. B., AKBAŞ S. O., IŞIK N. S.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.4, pp.711-721, 2015 (SCI-Expanded)
- XVII. **ASSESSMENT OF THE SWELLING AND LIME STABILIZATION POTENTIAL OF GOLBASI (ANKARA) RESIDENTIAL AREA CLAYS**  
Ozturk Y. Z., ÜNSAL N., AKBAŞ S. O.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.2, pp.309-318, 2015 (SCI-Expanded)
- XVIII. **Methods for the Characterization of the Vulnerability of Elements at Risk**  
Sterlacchini S., AKBAŞ S. O., Blahut J., Mavrouli O., Garcia C., Luna B. Q., Corominas J.  
MOUNTAIN RISKS: FROM PREDICTION TO MANAGEMENT AND GOVERNANCE, vol.34, pp.233-273, 2014 (SCI-Expanded)
- XIX. **Methods for Debris Flow Hazard and Risk Assessment**  
Luna B. Q., Blahut J., Kappes M., AKBAŞ S. O., Malet J., Remaitre A., van Asch T., Jaboyedoff M.  
MOUNTAIN RISKS: FROM PREDICTION TO MANAGEMENT AND GOVERNANCE, vol.34, pp.133-177, 2014 (SCI-Expanded)
- XX. **Evaluation of blast-induced ground vibration effects in a new residential zone**  
Dogan O., ANIL Ö., AKBAŞ S. O., KANTAR E., Erdem R. T.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.50, pp.168-181, 2013 (SCI-Expanded)
- XXI. **THE EFFECT OF A SHALLOW RIGID LAYER ON THE BEARING CAPACITY OF FOOTINGS ON COHESIONLESS SOILS**  
BABAGIRAY G., AKBAŞ S. O., ANIL Ö.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.28, no.1, pp.187-197, 2013 (SCI-Expanded)
- XXII. **Vibration measurement and vulnerability analysis of a power plant cooling system**  
Anil Ö., AKBAŞ S. O., KANTAR E., Gel A. C.  
Smart Structures and Systems, vol.11, no.2, pp.199-215, 2013 (SCI-Expanded)
- XXIII. **Predicted and Observed Deformation Behavior of Akkopru Dam**  
AKBAŞ S. O., Sak I.  
TEKNIK DERGI, vol.23, no.3, pp.6063-6087, 2012 (SCI-Expanded)
- XXIV. **Closure to "Axial Compression of Footings in Cohesionless Soils. II: Bearing Capacity" by Sami O. Akbas and Fred H. Kulhawy**  
AKBAŞ S. O., Kulhawy F. H.  
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.137, no.9, pp.856-857, 2011 (SCI-

- Expanded)
- XXV. **Artificial neural networks approach for estimating the groutability of granular soils with cement-based grouts**  
Tekin E., AKBAŞ S. O.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.70, no.1, pp.153-161, 2011 (SCI-Expanded)
- XXVI. **The application of numerical debris flow modelling for the generation of physical vulnerability curves**  
Luna B. Q., Blahut J., van Westen C. J., Sterlacchini S., van Asch T. W. J., AKBAŞ S. O.  
NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.11, no.7, pp.2047-2060, 2011 (SCI-Expanded)
- XXVII. **Closure to "Axial Compression of Footings in Cohesionless Soils. I: Load-Settlement Behavior" by Sami O. Akbas and Fred H. Kulhawy**  
AKBAŞ S. O., Kulhawy F. H.  
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.137, no.1, pp.110, 2011 (SCI-Expanded)
- XXVIII. **ESTIMATION OF THE GROUTABILITY OF GRANULAR SOILS WITH CEMENT-BASED GROUTS USING DISCRIMINANT ANALYSIS**  
TEKİN E., AKBAŞ S. O.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.3, pp.625-633, 2010 (SCI-Expanded)
- XXIX. **Reliability-Based Design Approach for Differential Settlement of Footings on Cohesionless Soils**  
AKBAŞ S. O., Kulhawy F. H.  
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.12, pp.1779-1788, 2009 (SCI-Expanded)
- XXX. **Axial Compression of Footings in Cohesionless Soils. II: Bearing Capacity**  
AKBAŞ S. O., Kulhawy F. H.  
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.11, pp.1575-1582, 2009 (SCI-Expanded)
- XXXI. **Axial Compression of Footings in Cohesionless Soils. I: Load-Settlement Behavior**  
AKBAŞ S. O., Kulhawy F. H.  
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.11, pp.1562-1574, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Modelling of Steady-State Seepage of an Embankment Dam Using Teaching-Learning Based Optimization Algorithm**  
GÜNAY A., AKBAŞ S. O.  
Turkish Journal of Civil Engineering, vol.36, no.2, pp.81-95, 2025 (Scopus)
- II. **Probabilistic steady-state seepage analysis of clay core embankment dams**  
GÜNAY A., AKBAŞ S. O.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2024 (ESCI)
- III. **The effect of incorporating vertical spatial variability on the probabilistic analysis of a deep excavation: a case study**  
Korkut D. E., Akbaş S. O.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.26, no.3, pp.1233-1242, 2023 (ESCI)
- IV. **Finite element-based geotechnical risk analysis for anchor-supported deep excavations**  
Bozkurt S., Akbaş S. O.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.16, no.8, pp.470, 2023 (Peer-Reviewed Journal)
- V. **Effect of Wall Stiffness on Excavation-Induced Horizontal Deformations in Stiff-Hard Clays**  
Ucdemir G., Akbas S.

Gazi University Journal of Science Part A: Engineering and Innovation, vol.10, no.2, pp.113-130, 2023 (Peer-Reviewed Journal)

- VI. **Estimation of resistance factors for reliability-based design of shallow foundations in cohesionless soils under earthquake loading**  
AKBAŞ S. O., TEKİN E.  
Geotechnical Special Publication, no.229, pp.555-569, 2013 (Scopus)
- VII. **Characterization and Estimation of Geotechnical Variability in Ankara Clay A Case History**  
AKBAŞ S. O., Kulhawy F.  
Geotechnical and Geological Engineering, vol.28, no.5, pp.619-631, 2010 (Peer-Reviewed Journal)

## Books

- I. **Zeminlerde ve Kayada Su Akımı**  
AKBAŞ S. O.  
in: Geoteknik Mühendisliğine Giriş, Ayfer Erken, Editor, Nobel Akademik Yayıncılık, pp.272-344, 2015
- II. **Methods for the Characterization of the Vulnerability of Elements at Risk**  
sterlacchini s., AKBAŞ S. O., blahut j., mavrouli o., garcia c., Quan Luna b., corominas j.  
in: Mountain Risks: From Prediction to Management and Governance., Van Asch T., Corominas J., Greiving S., Malet JP., Sterlacchini S., Editor, Springer, pp.233-273, 2014
- III. **Methods for Debris Flow Hazard and Risk Assessment**  
Quan Luna B., Blahut J., Kappes M., AKBAŞ S. O., malet J. P., Remaitre A., Van Asch T., Jaboyedoff M.  
in: Mountain Risks: From Prediction to Management and Governance, Van Asch T., Corominas J., Greiving S., Malet JP., Sterlacchini S., Editor, Springer, pp.133-177, 2014

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Characterization and stabilization of a mine waste dump-landslide**  
Türk E., Dumanlılar Ö., AKBAŞ S. O.  
Rocscience International Conference: The Evolution of Geotech, Canada, 20 April 2021, pp.657-663, (Full Text)
- II. **The importance of designer-contractor communication in geotechnical design as exemplified by a cut slope failure**  
Anafarta D., Türk E., AKBAŞ S. O.  
5th International Conference on New Advances in Civil Engineering, 8 - 10 November 2019, (Summary Text)
- III. **Finite Element-Based Geotechnical Risk Analysis For Anchor-Supported Deep Excavations**  
bozkurt s., AKBAŞ S. O.  
1st Mediterranean Young Geotechnical Engineers Conference, Muğla, Turkey, 23 - 24 September 2019, pp.159-166, (Full Text)
- IV. **Geoteknik risk analizinde sonlu elemanlar teorisinin kullanımı: Ankraj destekli derin kazılar için bir uygulama**  
bozkurt s., AKBAŞ S. O.  
International Congress on Engineering and Architecture (ENAR-2018), 14 - 16 November 2018, (Full Text)
- V. **Results of full-scale field impact load tests on HDPE pipes with geogrid protective layer**  
BABAGİRAY G., AKBAŞ S. O., ANIL Ö.  
11th International Conference on Geosynthetics, Seoul, South Korea, 16 - 21 September 2018, (Full Text)
- VI. **Evaluation and Consideration of Model Uncertainties in Reliability Based Design**  
Lesny K., AKBAŞ S. O., Bogusz W., Burlon S., Vessia G., Zhang L.  
Geo-Risk 2017: Reliability-based Design and Code Developments, Denver, United States Of America, 4 - 07 June 2017, vol.283, pp.435-444, (Full Text)
- VII. **Evaluation of the Uncertainties Related to the Geotechnical Design Method and Its Consideration in**

## **Reliability Based Design**

Lesny K., AKBAŞ S. O., Bogusz W., Burlon S., Vessia G., Zhang L.

Geo-Risk Conference, Colorado, United States Of America, 4 - 07 June 2017, pp.435-444, (Full Text)

- VIII. **Model Uncertainties for the Static Design of Square Foundations on Sand under Axial Compression**  
Tang C., Phoon K., AKBAŞ S. O.  
Geo-Risk Conference, Colorado, United States Of America, 4 - 07 June 2017, pp.151-160, (Full Text)
- IX. **Investigation of Impact Behaviour of HDPE Pipes with Geocell Protective Layer**  
BABAGIRAY G., AKBAŞ S. O., ANIL Ö.  
6th European Geosynthetics Congress, 25 - 28 September 2016, (Full Text)
- X. **Investigation of impact behavior of HDPE pipes with geocell protective layer**  
Babagiray G., Akbaş S. O., Anil Ö.  
6th European Geosynthetics Congress, Ljubljana, Slovenia, 25 - 28 September 2016, pp.762-773, (Full Text)
- XI. **Local Spectrum Investigation and Its Effects on Earthquake Behavior of Existing RC Structures**  
SÖNMEZER Y. B., AKBAŞ S. O., BAŞ S., KALKAN İ.  
12th International Congress on Advances in Civil Engineering, 21 - 23 September 2016, (Full Text)
- XII. **Importance of Instrumental Observations and Local Correlations in Terms of Sustainability of Solider Pile Structures**  
Karatag H., AKBAŞ S. O.  
2nd International Sustainable Buildings Symposium, Ankara, Turkey, 28 - 30 May 2015, (Full Text)
- XIII. **Reliability Analysis of an Anchored Contiguous Pile Wall in Ankara Clay with the Random Set Finite Element Method**  
AKBAŞ S. O., Kokten O.  
5th International Symposium on Geotechnical Safety and Risk (ISGSR), Rotterdam, Netherlands, 13 - 16 October 2015, pp.639-644, (Full Text)
- XIV. **Influence of Strengthening with Perforated Steel Plates on the Behavior of Infill Walls and RC Frame**  
Özbek E., Kalkan İ., Akbaş S. O., Aykaç S.  
ICCIE 2014 : International Conference on Civil and Infrastructure Engineering, Berlin, Germany, 22 - 23 May 2014, pp.511-516, (Full Text)
- XV. **An inter disciplinary approach for earthquake vulnerability assessment in urban areas A case study of Central District Yalova**  
AKBAŞ S. O., GÜZEY Ö., AKSOY E., ANIL Ö., GÜLTEKİN N.  
Regional Studies Association, Shape and be Shaped: The Future Dynamics of Regional Development Annual European Conference, Tampere, Finland, 5 - 08 May 2013, (Summary Text)
- XVI. **An investigation of the accuracy and the reliability of bearing capacity estimation methods for shallow foundations on cohesionless soils**  
Babagiray G., Akbaş S. O.  
4. GEOTEKNİK SEMPOZYUMU, Adana, Turkey, 1 - 02 December 2011, pp.271-282, (Full Text)
- XVII. **Reliability-based design of shallow foundations in cohesionless soils under compression loading: Ultimate limit state**  
AKBAŞ S. O., Kulhawy F. H.  
11th International Conference on Applications of Statistics and Probability in Civil Engineering (IC ASP), Zürich, Switzerland, 1 - 04 August 2011, pp.1659-1665, (Full Text)
- XVIII. **Model Uncertainties in "Terzaghi and Peck" Methods for Estimating Settlement of Footings on Sand**  
AKBAŞ S. O., kulhawy F. H.  
GeoFlorida 2010, 20 - 24 February 2010, (Full Text)
- XIX. **Critical assessment of existing physical vulnerability estimation approaches for debris flows**  
AKBAŞ S. O., Blahut J., Sterlacchini S.  
Proceedings of landslide processes: from geomorphologic mapping to dynamic modeling, Strasbourg, 2 - 03 June 2009, vol.1, pp.6-7, (Full Text)
- XX. **Evaluation of Capacity of Rock Foundation Sockets**  
kulhawy f., prakoso w., AKBAŞ S. O.

Alaska Rocks 2005, The 40th U.S. Symposium on Rock Mechanics, Anchorage, United States Of America, 25 - 29 June 2005, (Full Text)

## **Funded Projects**

AKBAŞ S. O., Project Supported by Higher Education Institutions, Sismik Yükler Altında Bulunan Sığ Temellerin Tasarımında Belirsizliklerin ve Güvenilirlik Seviyesinin Gerçekçi Olarak Belirlenmesi, 2011 - 2013

AKBAŞ S. O., Project Supported by Higher Education Institutions, RİJİT TABAKA ÜZERİNDE YER ALAN SONLU KALINLIKTA GRANÜLER ZEMİNLERDE İNŞAAT EDİLEN SİĞ TEMELLERİN TAŞIMA KAPASİTESİ, 2011 - 2013

AKBAŞ S. O., Project Supported by Higher Education Institutions, Kohezyonsuz Zeminlere Oturan Sığ Temellerin Göçme Kapasitelerinin Deneysel Olarak İncelenmesi, 2008 - 2009

## **Scientific Consultations**

TCDD Teknik, Scientific Consultancy, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey, 2021 - Continues

İlbank, Scientific Consultancy, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey, 2019 - Continues

TEİAŞ, Scientific Consultancy, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey, 2021 - 2022

## **Metrics**

Publication: 74

Citation (WoS): 401

Citation (Scopus): 494

H-Index (WoS): 10

H-Index (Scopus): 11

## **Non Academic Experience**

Devlet Su İşleri Genel Müdürlüğü, İnşaat Yüksek Mühendisi