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### Personal Information

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### Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Zemin Mekaniđi Ve Geoteknik Mühendisliđi (Dr), Turkey 2007 - 2015

Postgraduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Zemin Mekaniđi Ve Geoteknik Mühendisliđi (YI), Turkey 2004 - 2007

Undergraduate, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliđi Bölümü, Turkey 2000 - 2004

### Foreign Languages

English

### Dissertations

Doctorate, The use of geothermal heat exchanger piles for sustainable design, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Zemin Mekaniđi Ve Geoteknik Mühendisliđi (Dr), 2015

Postgraduate, Determination of pile quality using low strain integrity testing and automatic signal matching, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Zemin Mekaniđi Ve Geoteknik Mühendisliđi (YI), 2007

### Research Areas

Civil Engineering, Geotechnical, Foundation Engineering, Soil Mechanics, Underground Construction, Deep Excavation, Engineering and Technology

### Academic Titles / Tasks

Research Assistant PhD, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliđi Bölümü, 2015 - Continues

Research Assistant, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliđi Bölümü, 2005 - 2015

Research Assistant, Virginia Polytechnic Institute And State University, Charles E. Via, Jr. Department Of Civil & Environmental Engineering, Department Of Civil & Environmental Engineering, 2011 - 2014

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. Selection of the design temperature change for energy piles

- Abdelaziz S. L. , Özüdoğru T. Y.  
APPLIED THERMAL ENGINEERING, vol.107, pp.1036-1045, 2016 (Journal Indexed in SCI)
- II. **Non-uniform thermal strains and stresses in energy piles**  
Abdelaziz S., Özüdoğru T. Y.  
ENVIRONMENTAL GEOTECHNICS, vol.3, pp.237-252, 2016 (Journal Indexed in SCI)
- III. **Long-term performance of heat exchanger piles**  
Olgun C. G. , Ozudogru T. Y. , Abdelaziz S. L. , Şenol A.  
ACTA GEOTECHNICA, vol.10, no.5, pp.553-569, 2015 (Journal Indexed in SCI)
- IV. **Thermo-mechanical radial expansion of heat exchanger piles and possible effects on contact pressures at pile-soil interface**  
Olgun C. G. , Ozudogru T. Y. , Arson C. F.  
GEOTECHNIQUE LETTERS, vol.4, pp.170-178, 2014 (Journal Indexed in SCI)
- V. **3D numerical modeling of vertical geothermal heat exchangers**  
Özüdoğru T. Y. , Olgun C. G. , Şenol A.  
GEOTHERMICS, vol.51, pp.312-324, 2014 (Journal Indexed in SCI)
- VI. **Multilayer finite line source model for vertical heat exchangers**  
Abdelaziz S. L. , Ozudogru T. Y. , Olgun C. G. , Martin J. R.  
GEOTHERMICS, vol.51, pp.406-416, 2014 (Journal Indexed in SCI)
- VII. **Pile Integrity Testing and Drivability Analysis**  
Özüdoğru T. Y. , Şenol A., TAYLAN Z. N.  
TEKNIK DERGI, vol.20, no.3, pp.4793-4810, 2009 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Analysis of Friction Induced Thermo-Mechanical Stresses on a Heat Exchanger Pile in Isothermal Soil**  
Özüdoğru T. Y. , Olgun C. G. , Arson C. F.  
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, vol.33, no.2, pp.357-371, 2015 (Journal Indexed in ESCI)
- II. **Numerical Modeling of Vertical Geothermal Heat Exchangers Using Finite Difference and Finite Element Techniques**  
Özüdoğru T. Y. , Ghasemi-Fare O., Olgun C. G. , Basu P.  
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, vol.33, no.2, pp.291-306, 2015 (Journal Indexed in ESCI)

## Books & Book Chapters

- I. **Pile Integrity Testing: Determination of Pile Quality Using Low Strain Integrity Testing and Automatic Signal Matching**  
Özüdoğru T. Y.  
Lap Lambert Academic Publishing, A.B.D., 2011

## Refereed Congress / Symposium Publications in Proceedings

- I. **Long-term performance of heat exchanger boreholes at different climatic conditions**  
Olgun C. G. , Geyin M., Özüdoğru T. Y.  
Geotechnical Frontiers 2017, Florida, United States Of America, 12 - 15 March 2017, pp.153-164
- II. **Kayma Dalgası Hızının PS Logging Yöntemi ile Belirlenmesi**  
İyisan R., Çevikbilen G., Hatipoğlu M., Özüdoğru T. Y.  
Zemin Mekaniği ve Geoteknik Mühendisliği 16. Ulusal Kongresi, Erzurum, Turkey, 13 - 14 October 2016, vol.1,

pp.301-310

- III. **Thermal conductivity testing of energy piles: Field testing and numerical modeling**  
Ozudogru T. Y. , Brettmann T., Guney Olgun C., Martin J. R. , Şenol A.  
GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering, Oakland, CA, United States Of America, 25 - 29 March 2012, pp.4436-4445
- IV. **STABILIZATION OF A LOW PLASTICITY CLAY SOIL BY ALTERNATIVE MATERIALS**  
Şenol A., Etminkan E., Özüdoğru T. Y. , Yıldırım H.  
Symposium on Advances in Grounded Technology and Geo-Information / Annual General Meeting of the Geotechnical-Society-of-Singapore, Singapore, Singapore, 1 - 02 December 2011, pp.271-277
- V. **A Case Study on the Determination of Pile Discontinuities by Using the Low Strain Pile Integrity Testing and Signal Matching**  
Özüdoğru T. Y. , Şenol A.  
19th EYGEC Conference, Győr, Hungary, 3 - 06 September 2008, pp.233-241
- VI. **Determination of Pile Discontinuities by Using The Low Strain Pile Integrity Testing and Signal Matching**  
Özüdoğru T. Y. , Şenol A., Deneç G.  
1st International Conference on Soil and Rock Engineering, Colombo, Sri Lanka, 6 - 11 August 2007, pp.1-5
- VII. **Düşük Plastisiteli Killerin Önkonsolidasyon Basıncının Çeşitli Yöntemlerle Belirlenmesi**  
Şenol A., Hatipoğlu M., Özüdoğru T. Y. , Taylan Z. N.  
Zemin Mekaniği ve Temel Mühendisliği Onbirinci Ulusal Kongresi, Trabzon, Turkey, 7 - 08 September 2006, pp.476-481
- VIII. **Effect of sample size on pre-consolidation pressure determined in laboratory tests**  
Şenol A., Taylan Z., Özüdoğru T. Y. , Hatipoğlu M.  
6th International Conference on Physical Modelling in Geotechnics - Physical Modelling in Geotechnics - 6th ICPMG '06, Hong Kong, China, 4 - 06 August 2006, vol.2, pp.1367-1370
- IX. **The evaluation of pre-consolidation pressure in terms of various determination methods for different clay subgrades**  
Şenol A., Özüdoğru T. Y. , Hatipoğlu M.  
Soil and Rock Behavior and Modeling, Shanghai, China, 6 - 08 June 2006, pp.70-75
- X. **The Evaluation of Pre-consolidation Pressure Results of "CL" Subgrades**  
Şenol A., Hatipoğlu M., Özüdoğru T. Y.  
Geoprob 2005: International Conference on Problematic Soils, Gazimagusa, Cyprus (Kktc), 25 - 27 May 2005, no.3, pp.1269-1274

## Other Publications

- I. **A Feasibility Study of Bridge Deck Deicing using Geothermal Energy**  
Ghasemi-Fare O., Bowers G. A. , Kramer C. A. , Özüdoğru T. Y. , Basu P., Olgun C. G. , Bülbül T., Sütman M.  
Technical Report, pp.111, 2015

## Scientific Refereeing

MEASUREMENT, Journal Indexed in SCI-E, January 2020

APPLIED THERMAL ENGINEERING, Journal Indexed in SCI-E, October 2019

COMPUTERS AND GEOTECHNICS, Journal Indexed in SCI-E, June 2019

COLD REGIONS SCIENCE AND TECHNOLOGY, SCI Journal, June 2019

SOILS AND FOUNDATIONS, Journal Indexed in SCI-E, March 2019

SOILS AND FOUNDATIONS, Journal Indexed in SCI-E, January 2019

GEOTHERMICS, Journal Indexed in SCI-E, November 2018

SOILS AND FOUNDATIONS, Journal Indexed in SCI-E, October 2018  
GEOTHERMICS, Journal Indexed in SCI-E, June 2018  
GEOMECHANICS FOR ENERGY AND THE ENVIRONMENT, Journal Indexed in ESCI, January 2018  
GEOTHERMICS, Journal Indexed in SCI-E, December 2017  
SOILS AND FOUNDATIONS, Journal Indexed in SCI-E, September 2017  
SOILS AND FOUNDATIONS, Journal Indexed in SCI-E, March 2017  
SOILS AND FOUNDATIONS, Journal Indexed in SCI-E, July 2016  
SOILS AND FOUNDATIONS, Journal Indexed in SCI-E, January 2016  
SOILS AND FOUNDATIONS, Journal Indexed in SCI-E, May 2015  
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, Journal Indexed in ESCI, January 2015  
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, Journal Indexed in ESCI, April 2014  
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, Journal Indexed in ESCI, April 2014  
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, Journal Indexed in ESCI, February 2014  
ACTA GEOTECHNICA, SCI Journal, December 2013  
ACTA GEOTECHNICA, SCI Journal, December 2013

## **Citations**

Total Citations (WOS):252  
h-index (WOS):8

## **Scholarships**

Araştırma Görevlileri için Yurtdışı Doktora Araştırma Bursu, YOK, 2011 - 2012  
Uzun Süreli Yurtdışı Araştırma Etkinliklerine Katılımı Destekleme Programı, University, 2011 - 2012