

## **Prof. LEVEND TUTLUOĞLU**

### **Personal Information**

**Office Phone:** [+90 312 210 5815](tel:+903122105815)

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

**Web:** <https://avesis.metu.edu.tr/leventt>

**Address:** ODTÜ Maden Mühendisliği Bölümü ANKARA 06800

### **International Researcher IDs**

ScholarID: fCXSR0oAAAAJ

ORCID: 0000-0002-3312-3184

Publons / Web Of Science ResearcherID: AAI-8962-2020

ScopusID: 23468214300

Yoksis Researcher ID: 182038

### **Education Information**

Doctorate, University of California, Berkeley, Engineering, Materials Science And Mineral Engineering, United States Of America 1982 - 1984

Postgraduate, University of California, Berkeley, Engineering, Materials Science And Mineral Engineering, United States Of America 1980 - 1981

Undergraduate, Middle East Technical University, Faculty of Engineering, Maden Mühendisliği, Turkey 1972 - 1978

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, mechanical rockcutting with and without high pressure water jets, University Of California, Berkeley, 1984

### **Research Areas**

Mining Engineering and Technology, Mining Operations, Rock Mechanics, Engineering and Technology

### **Academic Titles / Tasks**

Professor, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 1985 - Continues

### **Advising Theses**

TUTLUOĞLU L., Effect of loading span on tensile mode fracture toughness for three-point bend specimen geometries, Postgraduate, C.Karataş(Student), 2020

TUTLUOĞLU L., Tensile opening mode fracture toughness measurements and size effect investigations with Brazilian disc type rock specimens, Postgraduate, E.(Student), 2020

TUTLUOĞLU L., Investigation of fracture toughness on flattened Brazilian disc type molded shotcrete specimens, Doctorate, S.Yoncaci(Student), 2019

TUTLUOĞLU L., Mode I fracture toughness and tensile strength investigation on molded shotcrete brazilian specimen, Postgraduate, T.Tayfuner(Student), 2019

TUTLUOĞLU L., Pure tensile fracture modelling and toughness measurements on brazilian discs of andesite and marble, Postgraduate, C.ÖZDOĞAN(Student), 2017

TUTLUOĞLU L., Investigation of fracture toughness with four point asymmetric bending on rectangular rock specimens, Postgraduate, U.ALKAN(Student), 2015

TUTLUOĞLU L., Investigation of fracture toughness with four point bending loading on rectangular rock specimens, Postgraduate, U.Alkan(Student), 2015

TUTLUOĞLU L., Shear mode fracture toughness of rock with different core-based specimen geometries, Doctorate, K.HET(Student), 2014

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

- I. **Relationship Between Pre-failure and Post-failure Mechanical Properties of Rock Material of Different Origin**  
Tutluoglu L., ÖGE I. F., KARPUZ C.  
ROCK MECHANICS AND ROCK ENGINEERING, vol.48, no.1, pp.121-141, 2015 (SCI-Expanded)
- II. **Penetration rate prediction for diamond bit drilling by adaptive neuro-fuzzy inference system and multiple regressions**  
BASARIR H., TUTLUOĞLU L., KARPUZ C.  
ENGINEERING GEOLOGY, vol.173, pp.1-9, 2014 (SCI-Expanded)
- III. **Effects of geometric factors on mode I fracture toughness for modified ring tests**  
Tutluoglu L., KELES C.  
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.51, pp.149-161, 2012 (SCI-Expanded)
- IV. **Mode I fracture toughness determination with straight notched disk bending method**  
Tutluoglu L., KELES C.  
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.48, no.8, pp.1248-1261, 2011 (SCI-Expanded)
- V. **Investigation of proper specimen geometry for mode I fracture toughness testing with flattened Brazilian disc method**  
KELES C., Tutluoglu L.  
INTERNATIONAL JOURNAL OF FRACTURE, vol.169, no.1, pp.61-75, 2011 (SCI-Expanded)
- VI. **Two and three dimensional analysis of a slope failure in a lignite mine**  
Tutluoglu L., Oge I. F., Karpuz C.  
COMPUTERS & GEOSCIENCES, vol.37, pp.232-240, 2011 (SCI-Expanded)
- VII. **Geostatistical modeling of spatial variability of SPT data for a borax stockpile site**  
Basarir H., Kumral M., Karpuz C., Tutluoglu L.  
ENGINEERING GEOLOGY, vol.114, pp.154-163, 2010 (SCI-Expanded)
- VIII. **Stability Charts for the Collapse of Residual Soil in Karst**  
DRUMM E. C., Akturk O., Akgun H., Tutluoglu L.  
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.7, pp.925-931, 2009 (SCI-Expanded)
- IX. **Specific energy based rippability classification system for coal measure rock**  
Basarir H., KARPUZ C., TUTLUOĞLU L.  
JOURNAL OF TERRAMECHANICS, vol.45, pp.51-62, 2008 (SCI-Expanded)

**X. A fuzzy logic based rippability classification system**

Basarir H., KARPUZ C., TUTLUOĞLU L.

JOURNAL OF THE SOUTH AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.107, no.12, pp.817-831, 2007  
(SCI-Expanded)

## Articles Published in Other Journals

**I. Slope stability analysis of a borax stockpile site**

Karpuz C., Tutluoğlu L.

INTERNATIONAL JOURNAL OF MINING AND MINERAL ENGINEERING, vol.1, pp.147-171, 2009 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

**I. Quality Assessment of Backfill Performance for an Underground Iron Mine in Turkey**

Yardimci A. G., Tutluoğlu L., Karpuz C., Ozturk H., Güner D.

Ground Support 2016, Lulea, Sweden, 12 - 14 September 2016

**II. Quality Assessment of Backfill Performance for an Underground Iron Mine in Turkey**

YARDIMCI A. G., TUTLUOĞLU L., KARPUZ C., ÖZTÜRK H., GÜNER D.

Ground Support 2016, 12 - 14 September 2016

**III. Coupled stability analyses of a road cut sloped and a railway tunnel in use**

TANRISEVEN E. N., BİLGİN H. A., TUTLUOĞLU L., Ünlütürk B.

EUROCK 2016 Rock Mechanics and Rock Engineering: From the Past to the Future, Cappadocia, Nevşehir, Turkey, 29 - 31 August 2016, vol.1, pp.677-682

**IV. Crown Pillar Optimization for Surface to Underground Mine Transition in Erzincan Bizmisen Iron Mine**

YARDIMCI A. G., TUTLUOĞLU L., KARPUZ C.

50th US Rock Mechanics / Geomechanics Symposium (ARMA 2016), Houston, United States Of America, 26 - 29 June 2016

**V. Investigation of Beam Specimen Geometries under Four Point Asymmetric Bending for Shear Mode Fracture Toughness Measurements of Rocks**

ALKAN U., TUTLUOĞLU L.

50th U.S. Rock Mechanics/Geomechanics Symposium, 26-29 June, Houston, Texas, Houston, Texas, United States Of America, 26 - 29 June 2016

**VI. Investigation of Large Scale Slope Failure Mechanisms and Numerical Modeling for the Safe Design of Slopes in a Lignite Mine**

Tutluoglu L., KARPUZ C.

WSEAS International Conference on Engineering Mechanics, Structures, and Engineering Geology, Heraklion, Greece, 22 - 24 July 2008, pp.292-293

## Supported Projects

TUTLUOĞLU L., ALKAN U., ÖZDOĞAN C., Project Supported by Higher Education Institutions, DÖRTGEN KESİTLİ KAYA NUMUNELERİNİN ÇATLAK TOKLUĞU DAVRANIŞININ EĞİLME YÜKLERİ ALTINDA ARAŞTIRILMASI, 2016 - 2016

TUTLUOĞLU L., Project Supported by Other Private Institutions, Çan Yayaköy Kömür Sahası Açık İşletme ve Açık Ocak Yer Altı Ocağı Arasında Bırakılacak Emniyet Topuğu Tasarım Projesi Sonuç Raporu Çan Kömür ve İnşaat A Ş, 2015 - 2015

TUTLUOĞLU L., Project Supported by Other Private Institutions, Zonguldak Amasra Kurucasıle yolu üzeri 50 nolu TCDD tüneli duraylılık etüdü ve test patlatmalarında ölçülen titreşimlerin analizine dayalı kontrollü palye patlatmaları tasarımı ve patlatmaların tünele etkisi hakkında teknik sonuç raporu, 2015 - 2015

## **Contractual Researches**

TUTLUOĞLU L., Erzincan Bizmişen Demir Cevheri Maden İşletme Projesi, 2014 - Continues

TUTLUOĞLU L., Slope stability analysis for Tufanbeyli Coal Mine, 2014 - Continues

## **Metrics**

Publication: 17

Citation (WoS): 338

Citation (Scopus): 278

H-Index (WoS): 10

H-Index (Scopus): 9