

## Prof. BAHTİYAR ÜNVER

### Personal Information

**Email:** unver@hacettepe.edu.tr

**Web:** <https://avesis.hacettepe.edu.tr/unver>

### International Researcher IDs

ORCID: 0000-0003-3366-800X

Yoksis Researcher ID: 8337

### Education Information

Doctorate, University of Nottingham, Mühendislik Fakültesi, Maden, United Kingdom 1985 - 1988

Undergraduate, Middle East Technical University, Faculty Of Engineering, Maden, Turkey 1979 - 1984

### Research Areas

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

### Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2002 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1995 - 2002

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1993 - 1995

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Mining Engineering, 1984 - 1985

### Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2008 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, 2016 - 2016

Hacettepe Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2005 - 2008

Hacettepe Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2002 - 2005

### Courses

TÜNELCİLİK, Undergraduate, 2017 - 2018

KAYA MEKANİĞİ, Undergraduate, 2017 - 2018

YERALTI KÖMÜR MADENCİLİĞİNDE TASARIMVE VERİMLİLİK, Postgraduate, 2016 - 2017

MADEN TASARIMI, Undergraduate, 2016 - 2017

### Advising Theses

ÜNVER B., Evaluation of applicability of double shield tunnel boring machines (DS-TBM) in potentially squeezing grounds, Doctorate, R.HASANPOUR(Student), 2013

ÜNVER B., Sanal gerçekliğin Türkiye madencilik endüstrisinde kullanılabilirliği, Postgraduate, S.YASİN(Student), 2013

ÜNVER B., Investigation of face stability and surface settlement at earth pressure balance (EPB) tunneling method, Doctorate, H.CHAKERİ(Student), 2012

ÜNVER B., Türkiye'de ve Dünyada uygulanmakta olan Maden Kanunu ve Uygulama Yönetmeliklerinin karşılaştırmalı analizi, Postgraduate, A.PINAR(Student), 2011

ÜNVER B., Çimento fabrikalarında solunabilir tozdaki serbest kristalin silika - kuvars içeriklerinin değerlendirilmesi, Postgraduate, B.YASUN(Student), 2011

ÜNVER B., Soma linyitinin yer altında gazlaştırılabilme açısından incelenmesi, Postgraduate, A.ÖZER(Student), 2011

ÜNVER B., Fay zonlarının sondaj verileri kullanılarak bilgisayar yardımıyla belirlenmesi, Postgraduate, M.SUPHİ(Student), 2011

ÜNVER B., Dairesel testereli kesme mekanizmasının sayısal modellemesi, Doctorate, N.ERHAN(Student), 2008

ÜNVER B., Numerical analyses of rock fracturing by various indenters, Postgraduate, N.TİRYAKİ(Student), 2008

ÜNVER B., Çekerek (Süreyyabey) barajı perde aksında bulunan grafit şistlere uygun enjeksiyon karışımının bulunması, Postgraduate, E.ERDEM(Student), 2008

ÜNVER B., Kavak Merzifon yolu T4 (Küçükbelvar) tüneli duraylılık analizi, Postgraduate, Ö.SATICI(Student), 2007

ÜNVER B., Kalın kömür damarlarında şevaltı üretim yönteminin sayısal modelleme tekniğiyle incelenmesi, Postgraduate, M.MURAT(Student), 2004

ÜNVER B., Tavan kömürü göçertmeli uzunayak yönteminin sayısal modellenmesi, Postgraduate, N.ERHAN(Student), 2002

ÜNVER B., Süreksizlik yüzey pürüzlülüğünün modellenmesi ve makaslama dayanımı üzerindeki etkilerinin incelenmesi, Doctorate, M.ÜNAL(Student), 2000

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

- I. **Evaluation of rock stability challenges affecting the formation of sustainable pit lake towards mine closure following crown pillar extraction in open pit-underground mines**  
Massawe V. A., ÜNVER B.  
Journal of Environmental Management, vol.356, 2024 (SCI-Expanded)
- II. **Uncertainty-Based Analysis for Agreement of Tensile-Strength Measurement Procedures**  
TÜTMEZ B., Unver B.  
GEOTECHNICAL TESTING JOURNAL, vol.40, no.3, 2017 (SCI-Expanded)
- III. **Geostatistical coal quality control in longwall mining**  
HİNDİSTAN M. A., TERCAN A. E., Unver B.  
INTERNATIONAL JOURNAL OF COAL GEOLOGY, vol.81, no.3, pp.139-150, 2010 (SCI-Expanded)
- IV. **Modelling of strata movement with a special reference to caving mechanism in thick seam coal mining**  
Unver B., Yasitli N.  
INTERNATIONAL JOURNAL OF COAL GEOLOGY, vol.66, no.4, pp.227-252, 2006 (SCI-Expanded)
- V. **3-D numerical modelling of stresses around a longwall panel with top coal caving**  
Yasitli N., Unver B.  
JOURNAL OF THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.105, no.5, pp.287-300, 2005 (SCI-Expanded)
- VI. **3D numerical modeling of longwall mining with top-coal caving**  
Yasitli N., Unver B.  
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.42, no.2, pp.219-235, 2005 (SCI-Expanded)
- VII. **Application of heat transfer analysis for frozen food storage caverns**  
Unver B., Agan C.

- TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY, vol.18, no.1, pp.7-17, 2003 (SCI-Expanded)
- VIII. **Effect of residual tectonic stresses on roadway stability in an underground coal mine**  
Unver B.  
JOURNAL OF THE SOUTH AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.99, no.3, pp.167-172, 1999 (SCI-Expanded)
- IX. **Assessment of the use of plastic water stemming cartridges in underground blasting operations**  
Unver B., Ozozen A.  
TRANSACTIONS OF THE INSTITUTION OF MINING AND METALLURGY SECTION A-MINING INDUSTRY, vol.107, 1998 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Analysis of a possible root cause and mechanism for Soma mine disaster**  
Unver B., Unal M. S.  
JOURNAL OF MINING AND ENVIRONMENT, vol.10, no.1, pp.1-26, 2019 (ESCI)
- II. **Fundamentals of 3D modelling and resource estimation in coal mining**  
Unver B.  
JOURNAL OF MINING AND ENVIRONMENT, vol.9, no.3, pp.623-639, 2018 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Relationship between two consecutive slope failures at elbistan open cast mine and a new production method proposal**  
ÜNVER B., HİNDİSTAN M. A.  
IMCET 2019 - Proceedings of the 26th International Mining Congress and Exhibition of Turkey, 16 - 19 April 2019, pp.1208
- II. **Madencilik Faaliyetleri İzleme ve Otomasyon Sistemi**  
TERCAN A. E., ÜNVER B., HİNDİSTAN M. A., URAL S., GAZEL S., HADİMOĞULLARI A.  
Türkiye 25. Uluslararası Madencilik Kongresi ve Sergisi (IMCET 2017), 11 - 14 April 2017, pp.325-330
- III. **Eynez Kömür Sahası Koşulları ve Gelecekte Güvenli Madencilik İçin Yapılması Gerekenler**  
ÜNVER B., HİNDİSTAN M. A.  
Türkiye 25. Uluslararası Madencilik Kongresi ve Sergisi (IMCET 2017), 11 - 14 April 2017, pp.408-416
- IV. **Relationship between Two Consecutive Slope Failures at Elbistan Open Cast Mine**  
Unver B., Hindistan M. A.  
16th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production (SWEMP) / International Symposium on Computer Applications (CAMI), İstanbul, Turkey, 5 - 07 October 2016
- V. **Soma eynez kömür sahası için alternatif bir üretim yöntemi önerisi**  
ÜNVER B., HİNDİSTAN M. A., TERCAN A. E., ERTUNÇ G., ÜNAL M. S., KILLIOĞLU S. Y., ATALAY F.  
Türkiye 24. uluslararası madencilik kongresi, 14 - 17 April 2015
- VI. **A New Production Method Proposal for Soma Eynez Coal Field**  
ÜNVER B., HİNDİSTAN M. A., TERCAN A. E., ERTUNÇ G., ÜNAL M. S., KILLIOĞLU S. Y., ATALAY F.  
24th International Mining Congress and Exhibition of Turkey, 14 - 17 April 2015
- VII. **A Geostatistical Study of Tertiary Coal Fields in Turkey**  
ATALAY F., TERCAN A. E., ÜNVER B., HİNDİSTAN M. A., ERTUNÇ G.  
15th Annual Conference of the International-Association-for-Mathematical-Geosciences (IAMG), Madrid, Spain, 2 - 06 September 2013, pp.723-726
- VIII. **Estimation of coal quality variables by covariance matching constrained kriging Kömür kalite değişkenlerinin kovaryans eşlemeli krigleme yöntemi ile kestirimi**  
ERTUNÇ G., HİNDİSTAN M. A., TERCAN A. E., ÜNVER B.

23rd International Mining Congress and Exhibition of Turkey, IMCET 2013, Antalya, Turkey, 16 - 19 April 2013, vol.3, pp.1785-1792

- IX. Preliminary 3D numerical modeling of a hypothetical LNG storage cavern having an irregular geometry**  
Unver B., Hasanpour R., Chakeri H., HİNDİSTAN M. A.  
European Rock Mechanics Symposium (EUROCK 2010), Lausanne, Switzerland, 15 - 18 June 2010, pp.721-722
- X. Numerical study of dimensions effects on measurement of rock fracture characterizations by using the modified Arcan test specimen**  
Hasanpour R., Choupani N., HİNDİSTAN M. A., Unver B.  
European Rock Mechanics Symposium (EUROCK 2010), Lausanne, Switzerland, 15 - 18 June 2010, pp.259-262
- XI. Numerical modelling of indenter/rock interaction under various indenter profiles**  
Tiryaki N., Williams D. J., Alehossein H., Unver B.  
European Rock Mechanics Symposium (EUROCK 2010), Lausanne, Switzerland, 15 - 18 June 2010, pp.413-416
- XII. An analysis of the effect of discontinuity surface matching on shear strength by image processing**  
Unal M., Unver B.  
17th International Mining Congress and Exhibition of Turkey (IMCET 2001), Ankara, Turkey, 19 - 22 June 2001, pp.425-430
- XIII. A critical assessment of an exploration pilot tunnel in adverse geological conditions: A case study**  
Unver B., Aygar E.  
9th International Symposium on Mine Planning and Equipment Selection, Athens, Greece, 6 - 09 November 2000, pp.397-402
- XIV. Modelling of discontinuity surface roughness by digital photogrammetry and geostatistical methods**  
Unal M., Unver B., Tercan E.  
9th International Symposium on Mine Planning and Equipment Selection, Athens, Greece, 6 - 09 November 2000, pp.391-396
- XV. A statistical method for practical assessment of sawability of rocks**  
Unver B.  
ISRM International Symposium on Prediction and Performance in Rock Mechanics and Rock Engineering (EUROCK 96), Turin, Italy, 2 - 05 September 1996, pp.59-65

## Supported Projects

ÜNVER B., Project Supported by Higher Education Institutions, Avrupa Kaya Mekaniği Sempozyumu (EUROCK 2016) Katılımı, 2016 - 2017

ÜNVER B., Project Supported by Other Private Institutions, M1 ve M5 Panolarında Yaşanan Gaz Sorunu ve Alınması Gereken Önlemlere İlişkin Değerlendirmeler, 2016 - 2016

KILLIOĞLU S. Y., ERTUNÇ G., ÜNAL M. S., HİNDİSTAN M. A., ÜNVER B., TUBITAK Project, EÜAŞ A Ait Arama Ruhsatlı Trakya Konya Sahalarında Linyit Rezervinin İşletilebilirliğinin Belirlenmesi, 2013 - 2014

## Metrics

Publication: 48

Citation (WoS): 699

Citation (Scopus): 671

H-Index (WoS): 14

H-Index (Scopus): 13

## Non Academic Experience

Hacettepe Üniversitesi  
Türkiye Kömür İşletmeleri (TKİ)  
ODTÜ