

Prof. BAHTİYAR ÜNVER

Personal Information

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International Researcher IDs

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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 MEKANIĞI, 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., Kavaklı Merzifon yol 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 göçetmeli uzunayak yönteminin sayısal modellenmesi, Postgraduate, N.ERHAN(Student), 2002
- ÜNVER B., Süreksizlik yüzey pürüzlüğünün 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., Uenver 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., Ozoren 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., HADIMOĞULLARI 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
- KILLİOĞLU S. Y., ERTUNÇ G., ÜNAL M. S., HİNDİSTAN M. A., ÜNVER B., TUBITAK Project, EÜAŞ A Ait Arama Ruhsatlı Trakya Konya Sahalarda 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