

Assoc. Prof. HASAN AYDIN BİLGİN

Personal Information

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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, Turkey 1979 - 1989

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, Turkey 1975 - 1977

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, Turkey 1969 - 1974

Dissertations

Doctorate, Shear behaviour of joints under heat in direct shear, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 1989

Postgraduate, Investigation of Applicability of the Finite Element Method to Mining Engineering Problems, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 1977

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 1992 - Continues

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2015 - Continues

Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2015 - Continues

Advising Theses

BİLGİN H. A., Investigation of blast induced ground vibration and air blast around uşak kışladağ gold mine, Doctorate, E.NUR(Student), 2018

BİLGİN H. A., Stability analysis of a coupled structure: A railway tunnel and a road cut slope, Postgraduate, B.ÜNLÜTÜRK(Student), 2018

BİLGİN H. A., Investigation of the effect of bit grinding on the cost effective down the hole drilling in open pit mines, Postgraduate, T.GÜRKAN(Student), 2018

BİLGİN H. A., Cautious blast design and monitoring nearby a buried high pressure gas pipeline, Postgraduate, Y.DAĞAŞAN(Student), 2014

BİLGİN H. A., Stability investigation of eti copper mine tailings dam using finite element analysis, Postgraduate,

E.NUR(Student), 2012

BİLGİN H. A., Assessment of velocity of detonation at kumtor open pit gold mine, Postgraduate, Ö.Düzgün(Student), 2011

BİLGİN H. A., Çubukbeli Tunnel, classification systems, rock mass strength parameters, excavation and support systems, finite element analysis, Postgraduate, E.Karahan(Student), 2010

PARLAKTUNA M., BİLGİN H. A., Resource assessment in Aydın-Pamukören geothermal field, Postgraduate, İ.ATMACA(Student), 2010

BİLGİN H. A., Design of excavation and support systems for the Çubukbeli tunnel in Antalya, Postgraduate, E.KARAHAN(Student), 2010

BİLGİN H. A., Investigation of ground vibrations induced by production blasting at Uşak Kışladağ gold mine, Postgraduate, B.BARIŞ(Student), 2007

BİLGİN H. A., Presplit blast induced air overpressure investigation at Uşak Kışladağ gold mine, Postgraduate, O.BİGİKOÇIN(Student), 2007

BİLGİN H. A., Discussion and evaluation of mining and environment laws of Turkey with regard to eu legislation, Postgraduate, Ş.Şafak(Student), 2006

BİLGİN H. A., Ground vibration assessment at y-3 panel of Tunçbilek open pit lignite mine, Postgraduate, K.Büyükyıldırım(Student), 2005

BİLGİN H. A., Investigation into the effect of meteorological parameters on the airborne dust concentration at Ovacık open pit gold mine, Postgraduate, E.Esenkaya(Student), 2004

BİLGİN H. A., Comparative study on ground vibrations prediction by statistical and neural networks approaches at Tunçbilek coal mine, panel byh, Postgraduate, S.Akeil(Student), 2004

BİLGİN H. A., Electrical potential response of the quartz bearing rocks under uniaxial loading, Postgraduate, H.Sinan(Student), 2004

BİLGİN H. A., Electric potential response of the quartz bearing rocks under uniaxial loading, Postgraduate, H.ŞİNAN(Student), 2004

BİLGİN H. A., Blast optimization for the assessment of ground vibrations at Demirbilek panel of Tunçbilek mine, Postgraduate, B.Arseven(Student), 2003

BİLGİN H. A., Effect of some rock mass properties on blasting induced ground vibration wave characteristics at Orhaneli surface coal mine, Doctorate, G.Gülsev(Student), 2002

BİLGİN H. A., Investigation of the blasting parameters on blasting efficiency through monitoring of model scale blast tests, Postgraduate, M.KILIÇ(Student), 1999

BİLGİN H. A., Critical evaluation of blast design parameters for discontinuous rocks by slab blasting, Doctorate, H.Tarık(Student), 1994

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of some rock mass properties on blasting-induced ground vibration wave characteristics**
Aldas G., Bilgin H.
CIM BULLETIN, vol.97, no.1079, pp.52-59, 2004 (SCI-Expanded)
- II. **The effects of containment on detonation velocity**
Souers P., Vitello P., Esen S., Kruttschnitt J., Bilgin H.
PROPELLANTS EXPLOSIVES PYROTECHNICS, vol.29, no.1, pp.19-26, 2004 (SCI-Expanded)
- III. **An interpretation of the effects of using different delay intervals in blasting at an open-cast mine in Turkey**
Aldas G., Bilgin H.
ROCK MECHANICS AND ROCK ENGINEERING, vol.36, no.5, pp.409-421, 2003 (SCI-Expanded)
- IV. **Modelling the size of the crushed zone around a blasthole**
Esen S., Onederra I., Bilgin H.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.40, no.4, pp.485-495, 2003 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **Modulus of Elasticity Estimation with One Dimensional Consolidation Test**
Tanriseven E. N., BİLGİN H. A., Duzgun S. H.
15th Pan-American Conference on Soil Mechanics and Geotechnical Engineering (PCSMGE) / 8th South American Congress on Rock Mechanics (SCRM), Buenos Aires, Argentina, 15 - 18 November 2015, pp.2426-2433
- III. **Assessment of ideality of some commercial explosives**
Bilgin H., Esen S.
25th Annual Conference on Explosives and Blasting Technique, Tennessee, United States Of America, 7 - 10 February 1999, pp.35-44
- IV. **EFFECT OF DOMINANT DISCONTINUITY ORIENTATION ON BLASTING - A CASE-STUDY**
BİLGİN H., PASAMEHMETOĞLU A., OZKAHRAMAN H.
3rd International Symposium on Mine Planning and Equipment Selection, İstanbul, Turkey, 18 - 20 October 1994, pp.663-668

Supported Projects

BİLGİN H. A., Ünal C., Project Supported by Higher Education Institutions, MADEN PATLATMALARI KAYNAKLI HAVAŞOKU SONUCU OLUŞAN İŞİTİLEBİLİR VE İŞİTİLEMEZ SESLERİN İNCELENMESİ, 2013 - 2018

Metrics

Publication: 9

Citation (WoS): 96

Citation (Scopus): 99

H-Index (WoS): 3

H-Index (Scopus): 2