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Education Information

Doctorate, Istanbul Technical University, Maden, Maden Mühendisliği, Turkey 2011 - 2018

Postgraduate, Istanbul Technical University, Maden Fakültesi, Maden Mühendisliği Bölümü, Turkey 2009 - 2011

Postgraduate, Politecnico di Torino, Italy 2009 - 2010

Undergraduate, Istanbul University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, Turkey 2004 - 2008

Foreign Languages

English

Dissertations

Postgraduate, Performance analysis of EPB-TBM in difficult geological conditions for Kadikoy-Kartal metro project, İstanbul Teknik Üniversitesi, Maden Fakültesi, Maden Mühendisliği Bölümü, 2011

Postgraduate, Implementing Observational Method and Remodelling of Libia Gondar Metro Station-Rome B 1 Metro Line, Politecnico Di Torino, 2010

Academic Titles / Tasks

Engineer, Istanbul Technical University, Maden, Maden Mühendisliği, 2009 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Possibility of using torvane shear testing device for soil conditioning optimization**
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- ROCK MECHANICS AND ROCK ENGINEERING, vol.50, no.6, pp.1585-1609, 2017 (SCI-Expanded)
- V. **Predicting Performance of Raise Boring Machines Using Empirical Models**
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- VIII. **Cuttability of coal from the Soma coalfield in Turkey**
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- IX. **Prediction of roadheader performance by artificial neural network**
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Articles Published in Other Journals

- I. **Effect of Clogging on EPB TBM Performance: A Case Study in Akfirat Waste Water Tunnel, Turkey**
Avunduk E., Copur H.
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, vol.37, no.6, pp.4789-4801, 2019 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental investigation of double scroll cutting pattern by using button cutting tool of raise boring machines**
Çopur H., Shaterpour-Mamaghani A., Gümüş A., Tumaç D., Balcı C., Kocbay A., Erdogan T., Avunduk E.
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- II. **Possibility of using vane shear testing device for optimizing soil conditioning**
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- XII. **Effect of Difficult Ground Conditions on Double Shield TBM Performance**
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- XIII. **Determining the effect of texture coefficient on performance wire machines of diamond**
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- XXI. **The Effect of Mechanical Properties on Performance of Diamond Wire Machines**
Tumaç D., Avunduk E., BASYIGIT M., Çopur H., Balcı C., ER S.
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- XXII. **Physico-Mechanical Property Tests Towards Performance Prediction of Chain Saw Machines**
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- XXIII. **Cutter Forces Measurement with PLCM Using Mini Conical Pick: Comparison with the Theoretical and Empirical Models**
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- XXIV. **A New Generation of Portable Linear Rock Cutting Machine (PLCM) and Comparison with Full Scale Linear Rock Cutting Tests**
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- XXV. **Cutter Forces Measurement with (PLCM©) Using Mini Disc Cutters: Comparison with the Theoretical Models**
COMAKLI R., Balcı C., BILGIN N., Çopur H., Tumaç D., POLAT C., Avunduk E.
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- XXVI. **Cutting performance of chain saw and diamond wire machines in beige marble quarry**
AVUNDUK E., Tumaç D., BASYIGIT M., ER S., Çopur H., Balcı C.
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- XXVII. **Pre-investigation to determine the effects of rock properties on performance of chain saw and diamond wire machines**
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- XXVIII. **Amasya-Suluova Bölgesinde Bir Kömür Ocağının Galeri Kazıları İçin Kollu Galeri Açma Makinesi Seçimi ve Performans Tahmini**
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- XXIX. **Comparison of the Empirical and Artificial Neural Network Models to Estimate Performance of Roadheaders**
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3rd International Symposium on Underground Excavations for Transportation, UYAK 2013, İstanbul, Turkey, 29 - 30 November 2013, pp.91-98
- XXX. **Experimental comparison of single and double scroll cutting patterns by using chisel cutting tools of chain saw machines**
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3rd ISRM Symposium on Rock Characterisation, Modelling and Engineering Design Methods, SINOROCK 2013, Shanghai, China, 18 - 20 June 2013, pp.729-734
- XXXI. **Estimation of the performance of chain saw machines from shore hardness and the other mechanical properties**
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- XXXII. **Rock Mechanics Aspects Related to Cutting Efficiency of Mechanical Excavators in Complex Geology**
BILGIN N., Balcı C., Çopur H., Tumaç D., Avunduk E.

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XXXIII. Effect of some Geotechnical Properties on TBM Performance

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European Rock Mechanics Symposium (EUROCK 2012, ISRM International Symposium), Stockholm, Sweden, 1 - 04 May 2012, pp.9-0

XXXIV. Sürekli Yüzey Kazıcıların Seçim Kriterleri, Yenice-Sivas Barit Madeni

BILGIN N., Çopur H., Balcı C., Tumaç D., Avunduk E., Ergunalp D.

Türkiye 3. Maden Makinaları Sempozyumu, İzmir, Turkey, 5 - 06 May 2011, pp.1-10

XXXV. Zincirli Kesme Makinelerinin Performans Tahmini İçin Görgül Bir Model

Çopur H., Balcı C., BILGIN N., Tumaç D., Avunduk E., Demirel Ş., Şimşek A.

Türkiye 3. Maden Makinaları Sempozyumu, İzmir, Turkey, 5 - 06 May 2011, pp.55-65

XXXVI. A Deterministic Model for Predicting and Optimizing Performance of Chain Saw Machines

Çopur H., Balcı C., BILGIN N., Tumaç D., Avunduk E., Saracoglu M., Serter A.

The 22nd World Mining Congress and Expo, İstanbul, Turkey, 1 - 04 May 2011, pp.175-181

XXXVII. Experience Gained on Mechanized Tunnelling in Istanbul and Some Recommendations for Mining Industry

BILGIN N., Çopur H., Balcı C., Tumaç D., Avunduk E.

The 22nd World Mining Congress and Expo, İstanbul, Turkey, 1 - 04 May 2011, pp.155-159

XXXVIII. Field and laboratory studies on performance of chain saw machines

Çopur H., Balcı C., Tumaç D., BILGIN N., AVUNDUK E.

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Metrics

Publication: 48

Citation (WoS): 78

Citation (Scopus): 233

H-Index (WoS): 5

H-Index (Scopus): 8