

Asst. Prof. ONUR GÖLBAŞI

Personal Information

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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Maden Mühendisliği, Turkey 2011 - 2015

Post Graduate, Middle East Technical University, Faculty of Engineering, Maden Mühendisliği, Turkey 2008 - 2011

Under Graduate, Middle East Technical University, Faculty of Engineering, Maden Mühendisliği, Turkey 2002 - 2007

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, RELIABILITY-BASED MAINTENANCE OPTIMIZATION OF WALKING DRAGLINES, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2015

Post Graduate, INVESTIGATION OF STRESS DISTRIBUTION IN A DRAGLINE BUCKET USING FINITE ELEMENT ANALYSIS, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2011

Research Areas

Mining Engineering and Technology, Mining Operations, Production Methods (open-pit and underground), Mine Transport Systems, Mineral Economics, Open pit and underground production planning, Workers' Health and Safety at Mine Operations and Facilities, Mining Methods and Mining System Analysis, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Maden Mühendisliği, 2018 - Continues

Researcher, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2017 - 2018

Researcher, Colorado School of Mines, Mühendislik Fakültesi, Maden Mühendisliği, 2016 - 2017

Research Assistant, Middle East Technical University, Faculty of Engineering, Maden Mühendisliği, 2009 - 2015

Professional Experience

Program Koordinatörü, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2020 - Continues

Staj Koordinatörü, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2020 -

Continues

Courses

Mine Design, Under Graduate, 2018 - 2019
Mine Systems Simulation, Post Graduate, 2018 - 2019
Mine Power and Machinery, Under Graduate, 2018 - 2019
Mine Valuation, Under Graduate, 2018 - 2019
Project Management in Mining, Under Graduate, 2018 - 2019

Advising Theses

Gölbaşı O., DEVELOPMENT OF A DYNAMIC MAINTENANCE ALGORITHM WITH MULTIPLE SCENARIOS: A CASE STUDY FOR SURFACE MINING, Post Graduate, M.ÖLMEZ(Student), 2019

Jury Memberships

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2019
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2019
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, July, 2019
Post Graduate, Post Graduate, Hacettepe Üniversitesi, June, 2019

Taught Courses And Trainings

Gölbaşı O., Risk Management, 2020 - 2020

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Optimization of the lubricating oil inventory policy applied in a mining company**
ŞENSES S., GÖLBAŞI O., S. Bakal I.
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, 2021 (Journal Indexed in SCI)
- II. **A discrete-event simulation algorithm for the optimization of multi-scenario maintenance policies**
GÖLBAŞI O., Turan M. O.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.145, 2020 (Journal Indexed in SCI)
- III. **A cost-effective simulation algorithm for inspection interval optimization: An application to mining equipment**
GÖLBAŞI O., DEMİREL N.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.113, pp.525-540, 2017 (Journal Indexed in SCI)
- IV. **Optimisation of dragline inspection intervals with time-counter algorithm**
Golbasi O., DEMİREL N.
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.31, no.6, pp.412-425, 2017
(Journal Indexed in SCI)
- V. **RISK-BASED RELIABILITY ALLOCATION METHODOLOGY TO SET A MAINTENANCE PRIORITY AMONG SYSTEM COMPONENTS: A CASE STUDY IN MINING**
GÖLBAŞI O., DEMİREL N.
EKSPLOATACJA I NIEZAWODNOSC-MAINTENANCE AND RELIABILITY, vol.19, no.2, pp.191-202, 2017 (Journal Indexed in SCI)

- VI. **Preventive Replacement Decisions for Dragline Components Using Reliability Analysis**
DEMİREL N., GÖLBAŞI O.
MINERALS, vol.6, no.2, 2016 (Journal Indexed in SCI)
- VII. **Investigation of stress in an earthmover bucket using finite element analysis: A generic model for draglines**
GÖLBAŞI O., DEMİREL N.
Journal of the Southern African Institute of Mining and Metallurgy, vol.115, no.7, pp.623-628, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Yedek Parça Envanter Politikasının Makina Kullanılabilirliğine Etkisini Değerlendirmeye Yönelik Bir Simülasyon Algoritması**
Gölbaşı O.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.35, no.2, pp.455-468, 2020 (National Refreed University Journal)
- II. **Simulation of an Active Maintenance Policy: A Preliminary Study in Dragline Maintenance Optimization**
GÖLBAŞI O., DEMİREL N.
Lecture Notes in Mechanical Engineering, pp.669-679, 2016 (Refereed Journals of Other Institutions)
- III. **Sonlu Elemanlar Analizi ile Çekme Kepçeli Yerkazarın Kepçesi Üzerindeki Gerilmelerin İncelenmesi**
DEMİREL N., GÖLBAŞI O.
TMMOB Madencilik Dergisi, vol.50, pp.3-9, 2011 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Discrete-event simulation of a maintenance policy with multiple scenarios**
Turan M. O. , GÖLBAŞI O.
28th International Symposium on Mine Planning and Equipment Selection, MPES 2019, Perth, Australia, 2 - 04 December 2019, pp.296-303
- II. **An integrated simulation model for opportunistic maintenance**
GÖLBAŞI O., Turan M. O. , Karpuz C.
39th International symposium on Application of Computers and Operations Research in the Mineral Industry, APCOM 2019, Wroclaw, Poland, 4 - 06 June 2019, pp.534-541
- III. **Effect of Spare Parts Policy on Equipment ProductionLoss in Mining**
GÖLBAŞI O.
International Symposium on Mine Planning and Equipment Selection, Santiago, Chile, 19 - 22 November 2018
- IV. **Equipment Replacement Analysis of Manual Trucks with Autonomous Truck Technology in Open Pit Mines**
GÖLBAŞI O.
International Symposium on the Application of Computers and Operations Research in the Mineral Industry, 9 - 11 August 2017
- V. **Optimization of Dragline Inspection Intervals with Time Counter Algorithm**
GÖLBAŞI O., DEMİREL N.
6th International Conference on Computer Applications in the Minerals Industries, İstanbul, Turkey, 5 - 07 October 2016, pp.1-9
- VI. **Simulation of an Active Maintenance Policy A Preliminary Study in Dragline Maintenance Optimization**
GÖLBAŞI O., DEMİREL N.

- ICRESH-ARMS, Lulea, Sweden, 1 - 04 June 2015, pp.669-679
- VII. **Review of Trend Tests for Detection of Wear Out Period for Mining Machineries**
GÖLBAŞI O., DEMİREL N.
Uluslararası Madencilik Kongresi ve Sergisi, Antalya, Turkey, 14 - 17 April 2015, pp.933-939
- VIII. **System Reliability Investigation of Draglines Using Fault Tree Analysis**
DEMİREL N., Gölbaşı O., KESTEL A. S. , DÜZGÜN H. Ş.
Mine Planning and Equipment Selection, Delhi, India, 29 September - 01 October 2014, pp.1151-1158
- IX. **Stochastic models in preventive maintenance policies**
Gölbaşı O., Demirel N.
5th International Conference on Mechanical and Aerospace Engineering, ICMAE 2014, Madrid, Spain, 18 - 19 July 2014, vol.1016, pp.802-806
- X. **Determination of Optimal Time Intervals for the Dragline Maintenance Using Probabilistic Approaches**
GÖLBAŞI O., DEMİREL N.
22nd International Symposium on Mine Planning and Equipment Selection, Dresden, Germany, 14 - 19 October 2013, vol.1, pp.1195-1203
- XI. **Çekme Keççeli Yerkazarların Arıza Türleri ve Sınıflandırılması**
GÖLBAŞI O., DEMİREL N.
4. MADEN MAKİNALARI SEMPOZYUMU, İzmir, Turkey, 23 - 25 May 2013, pp.47-55
- XII. **Failure Types of Draglines and Their Classification**
GÖLBAŞI O., DEMİREL N.
Maden Makinaları Sempozyumu, Turkey, 23 - 24 May 2013
- XIII. **Reliability of Dragline's Subsystems**
GÖLBAŞI O., DEMİREL N.
International Mining Congress of Turkey, Turkey, 16 - 19 April 2013
- XIV. **Stress and Deformation Distribution in a Dragline Bucket Using Finite Element Analysis**
GÖLBAŞI O., DEMİREL N.
IV. Balkan Mining Congress, Ljubljana, Slovenia, 18 - 21 October 2011, pp.431-438

Supported Projects

- GÖLBAŞI O., SARIGÜL M., ŞAHİNER Ş. F. , ŞENSES S., Project Supported by Higher Education Institutions, Açık İşletmelerdeki Maden Kamyonları için Bir Eko-Sürüş Modeli Geliştirilmesi, 2019 - Continues
- Gölbaşı O., Project Supported by Other Private Institutions, Anagold Çöpler Sahası Madencilik Operasyonları için Standart Çalışma Prosedürlerinin Oluşturulması, 2021 - 2022
- Gölbaşı O., Company, Beypazarı Trona Yatakları Kaya Kütle Karakterizasyonu ve Üretim Açıklıklarının Nümerik Simülasyonlarla İncelenmesi, 2020 - 2021
- Demirel N., Kestel S. A. , TUBITAK Project, Yürüyen Çekme-Keççeli Yerkazarların Optimum Verimliliği ve Bakım-Onarımı İçin Sistem Güvenilirliği Modeli Geliştirilmesi, 2011 - 2013

Scientific Refereeing

- COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, August 2020
- COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, February 2020
- Computers & Industrial Engineering, SCI Journal, January 2020
- COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, December 2019
- COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, September 2019
- COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, August 2019
- ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, May 2019

INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE, SCI Journal, December 2018
APPLIED SOFT COMPUTING, SCI Journal, December 2018
COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, November 2018
ARABIAN JOURNAL OF GEOSCIENCES, Journal Indexed in SCI-E, November 2018
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, Journal Indexed in SCI-E, August 2018
ARABIAN JOURNAL OF GEOSCIENCES, Journal Indexed in SCI-E, May 2018
ARABIAN JOURNAL OF GEOSCIENCES, Journal Indexed in SCI-E, April 2018
ARABIAN JOURNAL OF GEOSCIENCES, Journal Indexed in SCI-E, March 2018
RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, March 2018

Citations

Total Citations (WOS):31

h-index (WOS):4