

Assoc. Prof. ONUR GÖLBAŞI

Personal Information

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International Researcher IDs

ScholarID: w5_57WoAAAAJ

ORCID: 0000-0003-1544-1143

Publons / Web Of Science ResearcherID: P-9289-2015

ScopusID: 55194370200

Yoksis Researcher ID: 183023

Education Information

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

Postgraduate, Middle East Technical University, Faculty Of Engineering, Maden Mühendisliği, Turkey 2008 - 2011

Undergraduate, 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

Postgraduate, 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

Associate Professor, Middle East Technical University, Faculty Of Engineering, Department Of Mining Engineering, 2022 - Continues

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Mining Engineering, 2018 - 2022

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, Department Of Mining Engineering, 2009 - 2015

Academic and Administrative Experience

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

Courses

Mine Design, Undergraduate, 2021 - 2022
Mine Systems Simulation, Postgraduate, 2020 - 2021
Mine Power and Machinery, Undergraduate, 2020 - 2021
Mine Valuation, Undergraduate, 2020 - 2021
Project Management in Mining, Undergraduate, 2020 - 2021

Advising Theses

Gölbaşı O., SIMULATION-BASED OPTIMIZATION OF MAINTENANCE CREW CONFIGURATION IN MINING OPERATIONS, Postgraduate, Ş.FURKAN(Student), 2022
Gölbaşı O., LONG-TERM PRODUCTION SCHEDULING OPTIMIZATION FOR A POLYMETALLIC OPEN PIT MINE, Postgraduate, H.ESİN(Student), 2022
Gölbaşı O., MICROSCOPIC FUEL CONSUMPTION MODELLING FOR HAULAGE TRUCKS USING DISCRETE-EVENT SIMULATION, Postgraduate, E.KINA(Student), 2021
Gölbaşı O., DEVELOPMENT OF A MULTI-SCENARIO SIMULATION MODEL FOR SPARE PARTS INVENTORY OPTIMIZATION IN MINING OPERATIONS, Postgraduate, S.ŞENSES(Student), 2021
Gölbaşı O., UNCERTAINTY ASSESSMENT FOR THE SUPPLY CHAIN SYSTEM OF A CONCRETE COMPANY USING MONTE CARLO SIMULATION, Postgraduate, İ.TAHA(Student), 2021
Gölbaşı O., DEVELOPMENT OF A DYNAMIC MAINTENANCE ALGORITHM WITH MULTIPLE SCENARIOS: A CASE STUDY FOR SURFACE MINING, Postgraduate, M.ÖLMEZ(Student), 2019

Jury Memberships

Doctoral Examination, Doctoral Examination, Eskişehir Osmangazi University, August, 2021
Post Graduate, Post Graduate, Middle East Technical University, August, 2021
Doctoral Examination, Doctoral Examination, Middle East Technical University, May, 2020
Post Graduate, Post Graduate, McGill University, May, 2020
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

Altun N. E. , Erkayaoğlu M., Gölbaşı O., Madencilikte Süreç Farkındalığı ve Yönetimi Sertifika Programı, 2021 - 2021

Designed Courses And Trainings

Gölbaşı O., Altun N. E. , Erkayaoğlu M., Madencilikte Süreç Farkındalığı ve Yönetimi, May 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Generic creep behavior and creep modeling of an aged surface support liner under tension**
Guner D., Gölbaşı O., Öztürk H.
Journal of Rock Mechanics and Geotechnical Engineering, vol.14, no.2, pp.377-384, 2022 (Peer-Reviewed Journal)
- II. **Haul truck fuel consumption modeling under random operating conditions: A case study**
GÖLBAŞI O., Kina E.
TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT, vol.102, 2022 (Peer-Reviewed Journal)
- III. **Optimization of the lubricating oil inventory policy applied in a mining company**
Şenses S., Gölbaşı O., S. Bakal I.
International Journal of Mining, Reclamation and Environment, vol.35, no.6, pp.451-470, 2021 (Peer-Reviewed Journal)
- IV. **A discrete-event simulation algorithm for the optimization of multi-scenario maintenance policies**
GÖLBAŞI O., Turan M. O.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.145, 2020 (Peer-Reviewed Journal)
- V. **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 (Peer-Reviewed Journal)
- VI. **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 (Peer-Reviewed Journal)
- VII. **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 (Peer-Reviewed Journal)
- VIII. **Preventive Replacement Decisions for Dragline Components Using Reliability Analysis**
DEMİREL N., GÖLBAŞI O.
MINERALS, vol.6, no.2, 2016 (Peer-Reviewed Journal)
- IX. **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 (Peer-Reviewed Journal)

Articles Published in Other Journals

- I. **Madencilikte bir yedek parça envanter optimizasyonu çalışması**
Şenses S., Gölbaşı O., Bakal I. S.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.0, no.0, pp.1-11, 2021 (Peer-Reviewed Journal)

- II. **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 (Peer-Reviewed Journal)
- III. **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 (Peer-Reviewed Journal)
- IV. **Sonlu Elemanlar Analizi ile Çekme Kepçeli Yerkazarın Kepçesi Üzerindeki Gerilmelerin İncelenmesi**
DEMİREL N., GÖLBAŞI O.
TMMOB Madencilik Dergisi, vol.50, pp.3-9, 2011 (Peer-Reviewed Journal)

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 Production Loss 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 Kepçeli 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., ŞENSES S., Project Supported by Higher Education Institutions, Bakım-Onarım Politikası Entegre Edilmiş ve Çoklu Senaryoya Sahip Bir Yedek Parça Envanter Simülasyon Geliştirilmesi, 2021 - Continues

Gölbaşı O., Öztürk H., Project Supported by Other Private Institutions, 72487 No'lu Maden İşletme Ruhsat Sahası Çakışma Alanındaki Rezerv Miktarının ve Devlet Hakkı Hesaplarının Değerlendirilmesi, 2022 - 2022

Gölbaşı O., Erkayaoğlu M., Project Supported by Other Private Institutions, Çöpler Sahası Madencilik Operasyonları için Standart Çalışma Prosedürlerinin Oluşturulması, 2021 - 2022

Erkayaoğlu M., Gölbaşı O., Süreç E., Demirel N., EU Supported Other Project, Mixed Reality Application for Improving Mine Safety Culture in Underground Mining (MR4MS), 2021 - 2022

GÖLBAŞI O., SARIGÜL M., TOKAÇ B., ŞAHİNER Ş. F. , ŞENSES S., Project Supported by Higher Education Institutions, Açık İşletmelerdeki Maden Kamyonları için Bir Eko-Sürüş Modeli Geliştirilmesi, 2019 - 2022

Gölbaşı O., Company, Beypazarı Trona Yatakları Kaya Kütle Karakterizasyonu ve Üretim Açıklıklarının Nümerik Simülasyonlarla İncelenmesi, 2020 - 2021

Scientific Refereeing

RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, August 2021

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, August 2021

RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, June 2021

INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, SCI Journal, April 2021

ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, April 2021

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, March 2021

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, March 2021

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, December 2020

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, November 2020

INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, SCI Journal, November 2020

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, August 2020

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, August 2020

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, July 2020

APPLIED SOFT COMPUTING, SCI Journal, May 2020

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, April 2020

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, January 2020
COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, December 2019
RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, November 2019
COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, September 2019
ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, August 2019
INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE, SCI Journal, December 2018
ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, November 2018
RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, August 2018
ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, July 2018
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, SCI Journal, April 2018
ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, April 2018
Arabian Journal Of Geosciences, SCI Journal, March 2018

Metrics

Publication: 27
Citation (WoS): 51
Citation (Scopus): 67
H-Index (WoS): 4
H-Index (Scopus): 5

Congress and Symposium Activities

28th International Symposium on Mine Planning and Equipment Selection, Session Moderator, Perth, Australia, 2019

Non Academic Experience

Company, MechSoft Yazılım Ltd. Şti., Katı Modelleme ve Satış
Company, Gürsan İnşaat Makinaları Ltd. Şti., Fiyat Analizi