Assoc. Prof. ONUR GÖLBAŞI

Personal Information

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Address: ODTÜ Maden Mühendisliği 06800 Çankaya/Ankara

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

Post Doctorate, Colorado School of Mines, Mining Engineering, United States Of America 2016 - 2017

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 -

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

Fakülte Kurulu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2024 - Continues

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

Gölbaşi O., AN UNCERTAINTY ASSESSMENT MODELING FOR DEVIATIONS BETWEEN LONG- AND SHORT-RANGE PRODUCTION PLANS AT SURFACE METAL MINES, Postgraduate, T.BATUHAN(Student), 2023

Gölbaşı O., Simulation-based evaluation of blasthole drilling key performance metrics in surface mining, Postgraduate, K.KAYA(Student), 2023

Gölbaşı O., DEVELOPMENT OF RELIABILITY-BASED MAINTENANCE POLICIESFOR HAUL TRUCKS IN A SURFACE MINE, Postgraduate, M.SARIGÜL(Student), 2022

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., UNCERTAINTY ASSESSMENT FOR THE SUPPLY CHAIN SYSTEM OF A CONCRETE COMPANY USING MONTE CARLO SIMULATION, Postgraduate, İ.TAHA(Student), 2021

Gölbaşı O., MICROSCOPIC FUEL CONSUMPTION MODELLING FOR HAULAGE TRUCKS USING DISCRETE-EVENT SIMULATION, Postgraduate, E.KINA(Student), 2021

Gölbaşi O., DEVELOPMENT OF A MULTI-SCENARIO SIMULATION MODEL FOR SPARE PARTS INVENTORY OPTIMIZATION IN MINING OPERATIONS, Postgraduate, S.ŞENSES(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

Doctorate, Doctorate, Eskişehir Osmangazi Üniversitesi, 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

Gölbaşı O., Altun N. E., Erkayaoğlu M., Madencilikte Süreç Farkındalığı ve Yönetimi Sertifika Programı (Yerel İstihdam 1. ve 2. Grup), 2022 - 2022

Gölbaşı O., Altun N. E., Erkayaoğlu M., Madencilikte Süreç Farkındalığı ve Yönetimi Sertifika Programı (Liderlik-1. Grup), 2021 - 2021

Gölbaşı O., Risk Management, 2020 - 2020

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. Simulation-based optimization of workforce configuration for multi-division maintenance departments

Gölbaşı O., Şahiner Ş. F.

Computers and Industrial Engineering, vol.188, 2024 (SCI-Expanded)

II. 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 (SCI-Expanded)

III. 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 (SCI-Expanded)

IV. Optimization of the lubricating oil inventory policy applied in a mining company Şenses S., Gölbaşı O., S. Bakal İ. S.

INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.35, no.6, pp.451-470, 2021 (SCI-Expanded)

V. A discrete-event simulation algorithm for the optimization of multi-scenario maintenance policies GÖLBAŞI O., Turan M. O.

COMPUTERS & INDUSTRIAL ENGINEERING, vol.145, 2020 (SCI-Expanded)

VI. 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 (SCI-Expanded)

VII. 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 (SCI-Expanded)

VIII. 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 (SCI-Expanded)

IX. Preventive Replacement Decisions for Dragline Components Using Reliability Analysis DEMİREL N., GÖLBAŞI O.

MINERALS, vol.6, no.2, 2016 (SCI-Expanded)

X. 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 (SCI-Expanded)

Articles Published in Other Journals

I. A spare parts inventory optimization study in mining

Senses S., GÖLBAŞI O., BAKAL İ. S.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.28, no.1, pp.128-138, 2022 (ESCI)

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 (Scopus)

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. A Fault-Tree Integrated Simulation Methodology to Evaluate Deviations Between Short- And Long-Term Production Plans

Tekbey T. B., Gölbaşı O.

28th International Mining Congress and Exhibition of Türkiye, Antalya, Turkey, 28 November 2023, pp.491-500

II. Simulation-Based Optimization of Maintenance Crew Configuration in Mining Sites Şahiner Ş. F., Gölbaşı O.

28th International Mining Congress and Exhibition of Türkiye, Antalya, Turkey, 28 November 2023, pp.541-549

III. Rock Mass Classification & Determination of Geomechanical Properties in Beypazarı Trona Field Konuk C. N., Gölbaşi O., Yardimci A. G., Beşir T., Kayhan H. E.

Kayamek2022, Isparta, Turkey, 26 - 28 May 2022, pp.1-7

IV. 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

V. 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

VI. 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

VII. 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

VIII. 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

IX. 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

X. 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

XI. 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

XII. Stochastic models in preventive maintenance policies

Gölbaşi O., Demirel N.

5th International Conference on Mechanical and Aerospace Engineering, ICMAE 2014, Madrid, Spain, 18 - 19 July 2014, vol.1016, pp.802-806

XIII. 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

XIV. Çekme Kepçeli Yerkazarların Arıza Türleri ve Sınıflandırılması

GÖLBAŞI O., DEMİREL N.

4. MADEN MAKİNALARI SEMPOZYUMU, İzmir, Turkey, 23 - 25 May 2013, pp.47-55

XV. Failure Types of Draglines and Their Classification

GÖLBAŞI O., DEMİREL N.

Maden Makinaları Sempozyumu, Turkey, 23 - 24 May 2013

XVI. Reliability of Dragline's Subsystems

GÖLBAŞI O., DEMİREL N.

International Mining Congress of Turkey, Turkey, 16 - 19 April 2013

XVII. 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

Gölbaşı O., TUBITAK Project, Güvenli ve Sürdürülebilir Maden Modelleme & Planlama Tekniklerini Kullanarak Maden Ömrünün (Life Of Mine - LOM) Belirlenmesi, 2023 - 2025

Gölbaşı O., Yardımcı A. G., Project Supported by Other Private Institutions, Kazan Soda Elektrik Üretim A.Ş. Trona Madeni Sahasında Yüzeyde Oluşabilecek Tasmanın Tahminine Yönelik Analiz ve Değerlendirmeler, 2023 - 2024 Gölbaşı O., Yardımcı A. G., Project Supported by Other Private Institutions, Eti Soda A.Ş. Trona Madeni Sahasında Açılacak Olan Kömür Madeninin Muhtemel Trona Üretim Açıklıklarına Jeomekanik Etkilerinin Araştırılması, 2023 - 2024

Gölbaşı O., Yardımcı A. G., Project Supported by Other Private Institutions, Eti Soda Beypazarı Trona Sahasında Trona ve Kömür Yatakları Arasında Kalan Formasyonun Sıvı Geçirimlilik Değerlendirmesi , 2023 - 2023

GÖLBAŞI O., TEKBEY T. B., Project Supported by Higher Education Institutions, Açık Ocak Madenciliğinde Uzun ve Kısa Dönem Üretim Planlamaları Arasındaki Varyasyonlara Yönelik Belirsizlik Analizinin Gerçekleştirilmesi, 2022 - 2023

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

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 - 2022

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

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

Gölbaşı O., Yardimci A. G., Project Supported by Other Private Institutions, Beypazarı Trona Yatakları Kaya Kütle Karakterizasyonu ve Üretim Açıklıklarının Nümerik Simülasyonlarla İncelenmesi, 2020 - 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

Scientific Refereeing

Cogent Engineering, SCI Journal, October 2022

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, September 2022

INTERNATIONAL JOURNAL OF MINING, RECLAMATION AND ENVIRONMENT, SCI Journal, September 2022

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, April 2022

INTERNATIONAL JOURNAL OF MINING, RECLAMATION AND ENVIRONMENT, SCI Journal, April 2022

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, November 2021

NATURAL RESOURCES RESEARCH, SCI Journal, October 2021

 ${\bf COMPUTERS~\&~INDUSTRIAL~ENGINEERING,~SCI~Journal,~October~2021}$

NATURAL RESOURCES RESEARCH, SCI Journal, September 2021

RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, August 2021

COMPUTERS & INDUSTRIAL ENGINEERING, SCI Journal, August 2021

RELIABILITY ENGINEERING & SYSTEM SAFETY, SCI Journal, June 2021

ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, April 2021

INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, 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: 31 Citation (WoS): 82 Citation (Scopus): 108 H-Index (WoS): 6 H-Index (Scopus): 6

Congress and Symposium Activities

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

Non Academic Experience

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