

Prof. NURAY DEMİREL

Personal Information

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Biography

Nuray DEMİREL is a Professor of Mining Engineering at the Middle East Technical University. She holds Ph.D. (Missouri University of Science and Technology, formerly University of Missouri-Rolla, USA), M.Sc., B.Sc., and B.Sc. Minor Degree Diploma (Middle East Technical University, Turkey). Dr. Demirel has over 13 years of professional experience in research and teaching. Prior to her current position, she worked as a graduate research and/or teaching assistant (Missouri University of Science and Technology, USA; University of Alberta, Canada; Middle East Technical University, Turkey), as Mining Engineer (in training) for ETİ Krom A.Ş. and BAŞTAŞ Cement Plant. Dr. Demirel has taught several undergraduate and graduate courses in Mining Engineering and has graduated several students for industry and academia. Her current research areas include sustainable surface mining, life cycle assessment (LCA) in mining, excavation machines, machine health and longevity, occupational health and safety, geographic information systems (GIS), and remote sensing. Dr. Demirel is leading major research initiatives in these areas. The results of her research initiatives include five books, three book chapters, 18 refereed journal papers, 33 conference publications, and dissertations and technical presentations to various academic, government and industry audiences. Dr. Nuray Demirel is a member of Society of Mining Professors (SOMP), Society for Mining, Metallurgy and Exploration (SME), National Rock Mechanics Society and Chambers of Mining Engineers of Turkey.

Education Information

Post Graduate, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, Turkey 1999 - 2002

Undergraduate Minor, Middle East Technical University, Graduate School of Natural and Applied Sciences, Jeodezi Ve Coğrafi Bilgi Teknolojileri (YI) (Tezli), Turkey 1997 - 1999

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, Turkey 1994 - 1999

Foreign Languages

English, C1 Advanced

Italian, A2 Elementary

Dissertations

Doctorate, DYNAMIC DRAGLINE MODELING AND BOOM STRESS ANALYSIS FOR EFFICIENT EXCAVATION, University Of

Missouri-Rolla, Department Of Mining And Nuclear Engineering, 2007

Post Graduate, AÇIK OCAK SAHASINDAKİ DEĞİŞİMLERİN SPOT UYDU GÖRÜNTÜLERİ KULLANILARAK İZLENMESİ/MONITORING CHANGES IN SURFACE MINING AREA BY USING SPOT SATELLITE IMAGES, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2002

Research Areas

Mining Engineering and Technology, Mining Operations, Mine Safety and Environment, 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

Professor, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2018 - Continues
Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2013 - 2018

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2012 - 2013

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2010 - 2012

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2007 - 2010

Professional Experience

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2018 - Continues

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 2009 - 2015

Advising Theses

Demirel N., RISK ASSESSMENT OF GÖRDES NICKEL-COBALT PROCESS PLANT, Post Graduate, E.TORUN(Student), 2019

Demirel N., Ocaktan M. C. , ASSESSMENT OF PSYCHOSOCIAL RISK FACTORS AMONG AIR TRAFFIC CONTROLLERS, Post Graduate, G.ALTUNOK(Student), 2019

DEMİREL N., COMPARISON OF SAFETY CULTURE PERCEPTIONS OF UNIVERSITY STUDENT GROUPS, Post Graduate, G.ALTINKAYA(Student), 2019

DEMİREL N., Relationships of safety climate and organizational citizenship behaviors in aerospace industry in Turkey, Post Graduate, M.DİLAYLA(Student), 2019

DEMİREL N., Development of a computer-aided dragline selection program/Bilgisayar destekli çekme kepçeli yer kazar seçim programının geliştirilmesi, Post Graduate, S.AKHUNDOV(Student), 2017

DEMİREL N., Development of a computer-aided dragline selection program, Post Graduate, S.AKHUNDOV(Student), 2017

DEMİREL N., Risk assessment by fault tree analysis of methane explosions in Turkish Hard coal enterprises underground mines/Türkiye Taşkömürü Kurumu yeraltı madenlerinde metan patlamalarının hata ağacı analizi yöntemiyle risk değerlendirmesi, Post Graduate, R.MEVŞİM(Student), 2016

DEMİREL N., Risk assessment by fault tree analysis of methane explosions in Turkish Hard coal enterprises underground mines, Post Graduate, R.MEVŞİM(Student), 2016

DEMİREL N., Risk assessment by fault tree analysis of roof and rib fall accidents in an underground hard coal mine/Bir yeraltı taş kömürü madeninde taş ve kavlak düşmelerinden kaynaklanan kazaların hata ağacı analizi yöntemiyle risk

değerlendirmesi, Post Graduate, C.DİREK(Student), 2015

DEMİREL N., Reliability-based maintenance optimization of walking draglines/Yürüyen çekme kepçeli yerkazaların güvenilirlik tabanlı bakım-onarım optimizasyonu, Doctorate, O.GÖLBAŞI(Student), 2015

DEMİREL N., Comparative life cycle cost analysis of centrifugal and positive displacement pumps for mine dewatering/Maden su atımında santrifüj ve pozitif yer değiştirmeli pompaların ömür boyu maliyet kıyaslaması, Post Graduate, A.BURAK(Student), 2015

DEMİREL N., Comparative life cycle cost analysis of centrifugal and positive displacement pumps for mine dewatering, Post Graduate, A.BURAK(Student), 2015

DEMİREL N., Risk assessment by fault tree analysis of roof and rib fall accidents in an underground hard coal mine, Post Graduate, C.DİREK(Student), 2015

DEMİREL N., Reliability-based maintenance optimization of walking draglines, Doctorate, O.GÖLBAŞI(Student), 2015

DEMİREL N., Development of a remotely-controlled road header robot/Uzaktan kumandalı galeri açma makinası robotunun geliştirilmesi, Post Graduate, R.ENTEZARI(Student), 2014

DEMİREL N., Reliability analysis for two draglines in Tunçbilek Lignite Mine Tunçbilek Linyit Madeni'nde kullanılan iki çekme kepçeli yerkazarın güvenilirlik analizi, Post Graduate, D.TUNCAY(Student), 2014

DEMİREL N., Reliability analysis for two draglines in Tunçbilek Lignite Mine, Post Graduate, D.TUNCAY(Student), 2014

DEMİREL N., Development of a remotely-controlled road header robot, Post Graduate, R.ENTEZARİ(Student), 2014

DEMİREL N., Fan and pitch angle selection for efficient mine ventilation using analytical hierachy process and neuro fuzzy approach/Analitik hiyerarşi süreci ve nöro-bulanık algoritması kullanılarak etkili maden havalandırma için fan ve eğim açısı seçimi, Post Graduate, A.TAGHIZADEH(Student), 2012

DEMİREL N., Fan and pitch angle selection for efficient mine ventilation using analytical hierachy process and neuro fuzzy approach, Post Graduate, A.TAGHIZADEH(Student), 2012

DEMİREL N., Life cycle assessment of off-highway trucks and belt conveyors for sustainable mining/Sürdürülebilir madencilik için kamyon ve bantlı konveyörlerin yaşam döngüsü değerlendirmesi, Post Graduate, M.ERKAYAOĞLU(Student), 2011

DEMİREL N., Investigation of stress distribution in a dragline bucket using finite element analysis/Sonlu elemanlar analizi ile çekme kepçeli yerkazarın kepçesindeki gerilme dağılımının incelenmesi, Post Graduate, O.GÖLBAŞI(Student), 2011

DEMİREL N., Life cycle assessment of off-highway trucks and belt conveyors for sustainable mining, Post Graduate, M.ERKAYAOĞLU(Student), 2011

DEMİREL N., Investigation of stress distribution in a dragline bucket using finite element analysis, Post Graduate, O.GÖLBAŞI(Student), 2011

DEMİREL N., Development of a GIS-based monitoring and management system for underground mining safety/Yer altı madenciliği emniyetiyle ilgili coğrafi bilgi sistemleri tabanlı bir izleme ve işletme sisteminin geliştirilmesi, Post Graduate, S.ŞALAP(Student), 2008

KARSLIOĞLU M. O. , DEMİREL N., Development of a GIS-based monitoring and management system for underground mining safety, Post Graduate, S.ŞALAP(Student), 2008

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, July, 2020

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, January, 2020

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, January, 2020

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2019

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2019

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, May, 2019

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, May, 2019

Post Graduate, Post Graduate, Hacettepe Üniversitesi, February, 2019

Appointment Academic Staff, Hasan Öztürk, ODTÜ Maden Mühendisliği Bölümü, January, 2019

Post Graduate, Enver Yılmaz, ODTÜ Maden Mühendisliği Bölümü, August, 2018

Doctorate, Mehmet Suphi Önal, Hacettepe Üniversitesi Maden Mühendisliği Bölümü, July, 2018
Post Graduate, Ecem Karahan, Hacettepe Üniversitesi Maden Mühendisliği Bölümü, June, 2018
Post Graduate, Ayça Tufan, Hacettepe Üniversitesi Maden Mühendisliği Bölümü, May, 2018
Post Graduate, Merve Balta Mevsim, ODTÜ Maden Mühendisliği Bölümü, May, 2018
Doctorate, Esin Pekpak Fındıkçioğlu, ODTÜ Maden Mühendisliği Bölümü, March, 2018
Doctorate, Hamza Kıvrak, Hacettepe Üniversitesi Maden Mühendisliği Bölümü, January, 2018
Post Graduate, Sayid Akhundov, ODTÜ Maden Mühendisliği Bölümü, October, 2017
Doctorate, Rajib Ghosh, Lulea Technical University (LTU), Lulea, Sweden, October, 2017
Doctorate, Amol Arun Lanke, Lulea Technical University (LTU), Lulea, Sweden, January, 2017
Post Graduate, Fatma Nur Büyükkara, ODTÜ Maden Mühendisliği Bölümü, February, 2016
Post Graduate, Rıdvan Mevsim, ODTÜ Maden Mühendisliği Bölümü, February, 2016
Doctorate, Evren Deniz Yaylacı, ODTÜ Maden Mühendisliği Bölümü, September, 2015
Doctorate, Onur Gölbaşı, ODTÜ Maden Mühendisliği Bölümü, September, 2015
Post Graduate, Cansu Direk, ODTÜ Maden Mühendisliği Bölümü, September, 2015
Post Graduate, Ali Burak Aktaş, ODTÜ Maden Mühendisliği Bölümü, May, 2015
Post Graduate, Deniz Tuncay, ODTÜ Maden Mühendisliği Bölümü, September, 2014
Post Graduate, Ramin Entezari, ODTÜ Maden Mühendisliği Bölümü, September, 2014
Post Graduate, Hilal Soydan, ODTÜ Maden Mühendisliği Bölümü, August, 2013
Post Graduate, Süleyman Yasin Kılıoğlu, Hacettepe Üniversitesi Maden Mühendisliği Bölümü, June, 2013
Doctorate, Ömer Erdem, ODTÜ Maden Mühendisliği Bölümü, January, 2013
Post Graduate, Gizem Baybaş, ODTÜ Jeodezi ve Coğrafi Bilgi Teknolojileri, December, 2012
Post Graduate, Bilgehan Gençtürk, ODTÜ Maden Mühendisliği Bölümü, September, 2012
Post Graduate, Amir Taghizadeh, ODTÜ Maden Mühendisliği Bölümü, May, 2012
Post Graduate, Nesrin Mevsim, ODTÜ İstatistik, September, 2011
Post Graduate, Fuat Gökhan Ünal, ODTÜ Maden Mühendisliği Bölümü, September, 2011
Post Graduate, Mustafa Erkayaoğlu, ODTÜ Maden Mühendisliği Bölümü, September, 2011
Post Graduate, Onur Gölbaşı, ODTÜ Maden Mühendisliği Bölümü, February, 2011
Post Graduate, Mustafa Kemal Emil, ODTÜ Maden Mühendisliği Bölümü, September, 2010
Post Graduate, Selin Yoncacı, ODTÜ Maden Mühendisliği Bölümü, September, 2009
Post Graduate, Ömer Erdem, ODTÜ Maden Mühendisliği Bölümü, December, 2008
Post Graduate, Seda Şalap, ODTÜ Jeodezi ve Coğrafi Bilgi Teknolojileri, September, 2008
Post Graduate, Gökay Özkan, ODTÜ Maden Mühendisliği Bölümü, December, 2007

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

- **Comparative study of factors affecting public acceptance of mining projects: Evidence from USA, China and Turkey**
Que S., Awuah-Offei K., Demirel A., Wang L., Demirel N., Chen Y.
JOURNAL OF CLEANER PRODUCTION, vol.237, no.117634, 2019 (Journal Indexed in SCI)
- **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)
- **Optimisation of dragline inspection intervals with time-counter algorithm**
Golbasi O., DEMİREL N.
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.31, pp.412-425, 2017 (Journal Indexed in SCI)
- **RISK-BASED RELIABILITY ALLOCATION METHODOLOGY TO SET A MAINTENANCE PRIORITY AMONG SYSTEM COMPONENTS: A CASE STUDY IN MINING**
GÖLBAŞI O., DEMİREL N.

- EKSPLORACJA I NIEZAWODNOSC-MAINTENANCE AND RELIABILITY, vol.19, pp.191-202, 2017 (Journal Indexed in SCI)
- **Preventive Replacement Decisions for Dragline Components Using Reliability Analysis**
DEMİREL N., GÖLBAŞI O.
MINERALS, vol.6, 2016 (Journal Indexed in SCI)
 - **A comparative life cycle assessment of material handling systems for sustainable mining**
Erkayaoglu M., DEMİREL N.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.174, pp.1-6, 2016 (Journal Indexed in SCI)
 - **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, pp.623-628, 2015 (Journal Indexed in SCI)
 - **Design and implementation of a multimodal transportation cost analysis model for domestic lignite supply in Turkey**
Demir E. C. , Karpuz C., Demirel N.
JOURNAL OF THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.112, pp.993-998, 2012 (Journal Indexed in SCI)
 - **Uncertainty assessment for the evaluation of net present value: a mining industry perspective**
Erdem Ö., GÜYAGÜLER T., DEMİREL N.
JOURNAL OF THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY, vol.112, pp.405-412, 2012 (Journal Indexed in SCI)
 - **Determination of instantaneous breaking rate by Geological Strength Index, Block Punch Index and power of impact hammer for various rock mass conditions**
Aksoy C. O. , Ozacar V., DEMİREL N., Ozer S. C. , Safak S.
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY, vol.26, pp.534-540, 2011 (Journal Indexed in SCI)
 - **Effects of the rock mass parameters on the dragline excavation performance**
Demirel N.
JOURNAL OF MINING SCIENCE, vol.47, pp.441-449, 2011 (Journal Indexed in SCI)
 - **Surface coal mine area monitoring using multi-temporal high-resolution satellite imagery**
Demirel N., Emil M. K. , Duzgun H. S.
INTERNATIONAL JOURNAL OF COAL GEOLOGY, vol.86, pp.3-11, 2011 (Journal Indexed in SCI)
 - **Landuse change detection in a surface coal mine area using multi-temporal high-resolution satellite images**
DEMİREL N., Duzgun S., Emil M. K.
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.25, pp.342-349, 2011 (Journal Indexed in SCI)
 - **Development of a GIS-based monitoring and management system for underground coal mining safety**
Şalap S., KARSLIOĞLU M. O. , DEMİREL N.
INTERNATIONAL JOURNAL OF COAL GEOLOGY, vol.80, pp.105-112, 2009 (Journal Indexed in SCI)
 - **Case study: Planar kinematics of dragline for efficient machine control**
FRIMPONG S., DEMİREL N.
Journal of Aerospace Engineering, vol.22, pp.112-122, 2009 (Journal Indexed in SCI)
 - **Dragline dynamic modelling for efficient excavation**
DEMİREL N., Frimpong S.
INTERNATIONAL JOURNAL OF MINING RECLAMATION AND ENVIRONMENT, vol.23, pp.4-20, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Reliability Analysis of Dragline Using Fault Tree Analysis**
DENİZ T., DEMİREL N.
Madencilik Dergisi, vol.56, pp.55-64, 2017 (Other Refereed National Journals)
- **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)
- **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)
- **Bir Açık Kömür Madeninde Kamyon ve Bantlı Konveyörün Yaşam Döngüsü Değerlendirme Metodu ile Karşılaştırılması**
ERKAYAOĞLU M., DEMİREL N.
TMMOB Madencilik Dergisi, vol.50, pp.25-34, 2011 (Other Refereed National Journals)

Books & Book Chapters

- **Energy-Efficient Mine Ventilation Practices**
DEMİREL N.
in: Energy Efficiency in the Mineral Industry, Awuah-Offei K., Editor, Springer, London/Berlin , Zurich, pp.287-299, 2018
- **Energy Efficiency in the Mineral Industry**
DEMİREL N.
in: Energy-Efficient Mine Ventilation Practices, Kwame Awuah-Offei, Editor, Springer, Cham, pp.287-299, 2018
- **Surface Coal Production Methods and Equipments**
DEMİREL N., KARPUZ C.
in: Coal Production and Processing Technology, M.R. Riazi, Rajender Gupta, Editor, CRC press, 2016
- **Health and Safety Issues in Coal Mining**
DEMİREL N., KARPUZ C.
in: Coal Production and Processing Technology, M.R. Riazi, Rajender Gupta, Editor, CRC press, 2016
- **Remote Sensing of the Mine Environment**
DÜZGÜN H. Ş. , DEMİREL N.
CRC Press Taylor and Francis, Boca Raton, 2011
- **A GIS-based Management System for Underground Mining Safety**
DEMİREL N., ŞALAP S.
Lambert Academic Publishing, Saarbrücken, 2010
- **Mine Valuation**
DEMİREL N., GÜYAGÜLER T.
ODTÜ Yayıncılık, Ankara, 2008
- **Dynamic Dragline Modeling and Boom Stress Analysis for Efficient Excavation**
DEMİREL N.
Lambert Academic Publishing, Saarbrücken, 2007

Refereed Congress / Symposium Publications in Proceedings

- **Operation Quality Indicators for Shovel-Truck Systems at Open-Pit Coal Mines**
Voronov A., Voronov Y., Voronov A., DEMİREL N.

- 4th International Innovative Mining Symposium, Kemerovo, Russia, 14 - 16 October 2019, vol.105
Comparative Evaluation of CO2 Emissions in Europe and Turkey Using GIS
DEMİREL N.
18th Symposium on Environmental Issues and Waste Management in Energy and Mineral Production, Santiago, Chile, 20 - 22 November 2018, no.1, pp.3-13
- **Development of a Computer-Aided Dragline Selection Program**
DEMİREL N., Akhundov S.
27th International Symposium on Mine Planning and Equipment Selection - MPES 2018, 20 - 22 November 2018, vol.1, no.1, pp.235-244
- **From Mining Innovations to Sustainable Development: Keynote Speakers of the First to the Second International Innovative Mining Symposium**
CEHLAR M., Janocko J., Demirel N., Anyona S., Voeth S., TYULENEV M., ZHIRONKIN S.
2nd International Innovative Mining Symposium (Devoted to Russian Federation Year of Environment), Kemerovo, Russia, 20 - 22 November 2017, vol.21
- **Modeling of Three Flat Coal Seams Strata Developing at Open Pit Mining**
GVOZDKOVA T., MARKOV S., DEMİREL N., ANYONA S.
2nd International Innovative Mining Symposium (Devoted to Russian Federation Year of Environment), Kemerovo, Russia, 20 - 22 November 2017, vol.21
- **Classification of Draglines Failure Types by K-NearestNeighbor Algorithm**
TAGHIZADEH A., DEMİREL N.
26th International Symposium on Mine Planning and Equipment Selection (MPES), Lulea, Sweden, 29 - 31 August 2017, pp.493-496
- **Application of Machine Learning for Dragline Failure Prediction**
TAGHIZADEH A., DEMİREL N.
1st International Innovative Mining Symposium 2017, Kemerovo - Mezhdurechensk, Russia, 24 - 26 April 2017, vol.15
- **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
- **Development of Data Oriented Equipment Maintenance Policy for Surface Mining**
ERKAYAOĞLU M., DEMİREL N.
6th International Conference on Computer Applications in the Minerals Industries, İstanbul, Turkey, 5 - 07 October 2016, pp.1-6
- **Sustainability Comparison of Mining Industries by Life Cycle Assessment for Turkey and European Union**
DEMİREL N., ERKAYAOĞLU M.
16th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production (SWEMP) / International Symposium on Computer Applications (CAMI), İstanbul, Turkey, 5 - 07 October 2016
- **Development of Data-Oriented Equipment Maintenance Policy for Surface Mining**
ERKAYAOĞLU M., DEMİREL N.
6th International Conference on Computer Applications in the Minerals Industries, İstanbul, Turkey, 5 - 07 October 2016, pp.1-6
- **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
- **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
- **Review of Graphical Methods Utilized in System Reliability Assessment**

TUNCAY D., DEMİREL N.

24th INTERNATIONAL MINING CONGRESS OF TURKEY, Antalya, Turkey, 14 - 17 April 2015, pp.925-932

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

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

Mining Issues and Advancements in Turkey Towards Sustainability

DEMİREL N., AROL A. İ.

Shechtman International Symposium on Sustainable Industrial Processing Summit and Exhibition, Cancun, Mexico, 29 June - 04 July 2014, vol.1, pp.119-129

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

Çekme Kepçeli Yerkazalarının Arıza Türleri ve Sınıflandırılması

GÖLBAŞI O., DEMİREL N.

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

Failure Types of Draglines and Their Classification

GÖLBAŞI O., DEMİREL N.

Maden Makinaları Sempozyumu, Turkey, 23 - 24 May 2013

Reliability of Dragline's Subsystems

GÖLBAŞI O., DEMİREL N.

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

A Comparative Reliability Analysis for Draglines in Turkey

DEMİREL N., DÜZGÜN H. Ş. , KESTEL A. S.

21st International Symposium on Mine Planning and Equipment Selection, YENİ DELHİ, India, 28 - 30 November 2012, vol.1, pp.166-172

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

Application of FAHP in Optimization of Mine Ventilation Networks Deal With Fan Selection

TAGHIZADEH A., DEMİREL N.

22nd World Mining Congress, İstanbul, Turkey, 11 - 16 September 2011, vol.1, pp.753-759

Life Cycle Assessment and Its Implementation for Sustainable Material Handling in Surface Mining

ERKAYAOĞLU M., DEMİREL N.

22nd World Mining Congress, İstanbul, Turkey, 11 - 16 September 2011, vol.1, pp.459-464

Comparison of CO2 emission related to off highway trucks and belst conveyors in an open pit coal mine

ERKAYAOĞLU M., DEMİREL N.

22nd International Mining Congress and Exhibition of Turkey, Ankara, Turkey, 11 - 13 May 2011, pp.409-415

Proceedings of the 22nd International Mining Congress and Exhibition of Turkey

DEMİREL N., Erkayaoğlu M., Erdem Ö.

22nd International Mining Congress and Exhibition of Turkey, Ankara, Turkey, 11 - 13 May 2011, pp.0-422

Application of Technical and Economic Analysis on Refuge and Self Breathing Apparatus Design

AMIR T., DEMİREL N., BAHRAMI A.

22nd International Mining Congress and Exhibition of Turkey, Ankara, Turkey, 11 - 13 May 2011, pp.377-384

Risk Assessment for Dragline Productivity A Case Study of GLI s Draglines in Turkey

DEMİREL N., DÜZGÜN H. Ş.

SME Annual Meeting and Exhibition, DENVER, KOLORADO, United States Of America, 27 February - 02 March 2011, pp.1-11

● **Comparison of CO2emission related to off-highway trucks and belt conveyors in an open pit coal mine**

Erkayaoğlu M., DEMİREL N.

22nd International Mining Congress and Exhibition of Turkey, IMCET 2011, Ankara, Turkey, 11 - 13 May 2011, pp.409-415

● **Landuse Change Detection in a Surface Coal Mine Area Using Multi Temporal High Resolution Satellite Images**

DEMİREL N., DÜZGÜN H. Ş. , EMİL M. K.

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Crushing and Screening Plant, 2017 - 2017

DEMİREL N., Project Supported by Other Official Institutions, NAKMAL Program Update Project, 2017 - 2017

DEMİREL N., Project Supported by Other Official Institutions, NAKMAL Program Güncelleme Projesi, 2014 - 2014

DEMİREL N., KARPUZ C., Other Supported Projects, An Academic Program Initiative for Developing Kabul Polytechnic Faculty for Excellence in Geology and Mining Engineering Education and Research, 2014 - 2014

DEMİREL N., Project Supported by Other Private Institutions, Koza Altın A.Ş. Mastra Altın Madeni için danışmanlık, 2012 - 2012

DEMİREL N., Project Supported by Other Private Institutions, Özkoyuncu Madencilik A. Ş. Kayseri Menteş Demir Madeni Projesi, 2012 - 2012

DEMİREL N., Project Supported by Other Private Institutions, Çayeli Copper Enterprises Landslide Project, 2012 - 2012

DEMİREL N., Project Supported by Higher Education Institutions, Sürdürülebilir Madencilik Türkiye Çerçeve Çalışması, 2011 - 2011

DEMİREL N., Project Supported by Higher Education Institutions, Bir Açık Ocak Kömür Madeninde Kamyon Ve Banth Taşıyıcının Ydd İle Karşılaştırılması., 2010 - 2010

DEMİREL N., Project Supported by Other Official Institutions, Coal Transportation Cost Analysis Model (Nakmal) DSİM Projesi, 2007 - 2008

Activities in Scientific Journals

Bilimsel Madencilik Dergisi, Editor, 2018 - Continues

Madencilik Türkiye Dergisi, Editor, 2009 - Continues

Memberships / Tasks in Scientific Organizations

Member, 2011 - Continues

Member, 2005 - Continues

Member, 1999 - Continues

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Scientific Refereeing

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, January 2020

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, August 2019

JOURNAL OF CLEANER PRODUCTION, SCI Journal, April 2019

Kristal Baret Yarışması, Other Journals, December 2018

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Arabian Journal for Science and Engineering, SCI Journal, March 2018

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Mobility Activity

Erasmus Programme, Lecturing, Royal Melbourne Institute of Technology (RMIT), Australia, 2018 - 2018

Erasmus Programme, Lecturing, AGH University of Science and Technology, Poland, 2016 - 2016

Bilateral Colloboration Agreement, Lecturing, University of Cagliari, Italy, 2013 - 2013

Invited Congress and Symposium Activities

9. Uluslararası İş Sağlığı ve Güvenliği Kongresi, Invited Speaker, İstanbul, Turkey, 2018

Citations

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Awards

DEMİREL N., Certificate of Appreciation, Department of Defense of the United States of America, Task Force for Business and Stability Operations, December 2014

DEMİREL N., Outstanding GRA 2006/2007 Research Award, Missouri University of Science and Technology, January 2007