

Asst. Prof. İLAYDA ÜLKÜ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: B-2810-2018

ScopusID: 55913467500

Yoksis Researcher ID: 51700

Education Information

Doctorate, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Endüstri Mühendisliği (Dr), Turkey 2014 - 2019

Postgraduate, Galatasaray University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), Turkey 2011 - 2014

Undergraduate Minor, Istanbul Kultur University, İktisadi ve İdari Bilimler Fakültesi, İşletme Bölümü, Turkey 2008 - 2010

Undergraduate, Istanbul Kultur University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 2005 - 2010

Dissertations

Doctorate, OFFSHORE WIND FARM LAYOUT OPTIMIZATION USING MATHEMATICAL APPROACHES AND HEURISTIC TECHNIQUES, Marmara University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2019

Postgraduate, A risk-averse approach for setting transit line frequencies, Galatasaray University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 2014

Research Areas

Renewable energy, Optimization Theory and Methods, Production Planning and Control, Engineering Economics, Quality and Reliability, Supply Chain and Logistics Management

Academic Titles / Tasks

Assistant Professor, Istanbul Kultur University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2019 - Continues

Research Assistant, Istanbul Kultur University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2010 - 2019

Academic and Administrative Experience

Member of Department Promotion and Alumni Relations Commission, Istanbul Kultur University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2023 - Continues

Istanbul Kultur University, 2021 - Continues

Adaptation/Exemption Committee Member, Istanbul Kultur University, Mühendislik Fakültesi, Endüstri Mühendisliği,

2020 - Continues

Erasmus Program Department Coordinator, Istanbul Kultur University, Mühendislik Fakültesi, Endüstri Mühendisliği,

2015 - Continues

Internship Coordinator, Istanbul Kultur University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2018 - 2021

Courses

Engineering Orientation Spring, Undergraduate, 2022 - 2023

Mühendislik Yönetimine Giriş, Postgraduate, 2023 - 2024

Thesis Fall 2023-2024, Postgraduate, 2023 - 2024

Supply Chain Management, Undergraduate, 2023 - 2024

Thesis Spring 2022-2023, Postgraduate, 2022 - 2023

Scheduling Applications in Manufacturing and Services, Undergraduate, 2023 - 2024

Introduction to Industrial Engineering, Undergraduate, 2022 - 2023

Introduction to Engineering Management, Postgraduate, 2023 - 2024

Graduation Project Spring, Undergraduate, 2022 - 2023

Engineering Orientation, Undergraduate, 2023 - 2024

Numerical Analysis for Industrial Engineers, Undergraduate, 2022 - 2023

Seminar, Postgraduate, 2023 - 2024

Operations Management, Postgraduate, 2023 - 2024

Introduction to Industrial Engineering, Undergraduate, 2023 - 2024

Engineering Economics, Undergraduate, 2022 - 2023

Graduation Project, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Thesis Fall 2023, Postgraduate, 2022 - 2023

Scheduling Applications in Manufacturing and Services, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Seminar, Postgraduate, 2022 - 2023

Supply Chain Management, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Introduction to Engineering Management, Postgraduate, 2022 - 2023

Operations Management, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Engineering Orientation, Undergraduate, 2022 - 2023

Engineering Economics, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Engineering Orientation, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Thesis Spring 2022, Postgraduate, 2021 - 2022

Introduction to Industrial Engineering, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Graduation Project Spring 2022, Undergraduate, 2021 - 2022

Numerical Analysis for Industrial Engineers, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Thesis, Postgraduate, 2020 - 2021

Facilities Design and Planning, Undergraduate, 2018 - 2019

Production Planning and Control, Undergraduate, 2018 - 2019

Management Information Systems, Undergraduate, 2018 - 2019

Object Oriented Programming, Undergraduate, 2017 - 2018

Introduction to Programming, Undergraduate, 2017 - 2018

Simulation Modelling, Undergraduate, 2017 - 2018

Advising Theses

İLAYDA Ü., The impact of COVID-19 on the technology sector: The case of Turkish consultancy company, Postgraduate,

E.GÖZÜTOK(Student), 2022

İLAYDA Ü., Forecasting of Turkey's total electricity consumption in sectoral bases using machine learning algorithms, Postgraduate, M.KHAIR(Student), 2022

İLAYDA Ü., Triggering corporate sustainable performance in construction sector through green training: Moderating effect of barrier in construction management, Postgraduate, I.WARIS(Student), 2022

İLAYDA Ü., Causes and effects of construction project delay, Postgraduate, A.AMER(Student), 2021

İLAYDA Ü., Analyzing the adoption of project management methodologies and tools in the Turkish non-governmental organizations(NGOS) working in Syria humanitarian response, Postgraduate, A.ALKHATER(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

I. Optimization of cable layout designs for large offshore wind farms

ÜLKÜ İ., ALABAŞ USLU Ç.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.8, pp.6297-6312, 2020 (SCI-Expanded)

II. A new mathematical programming approach to wind farm layout problem under multiple wake effects

ÜLKÜ İ., Alabas-Uslu C.

RENEWABLE ENERGY, vol.136, pp.1190-1201, 2019 (SCI-Expanded)

Articles Published in Other Journals

I. Analysis of Food Supply Chain Process by Block Chain Based Approach

GÜN M., ÜLKÜ E. E., ÜLKÜ İ.

Balkan Journal of Electrical and Computer Engineering, vol.12, no.2, pp.152-159, 2024 (Peer-Reviewed Journal)

II. THE IMPACT OF COVID-19 ON THE TECHNOLOGY SECTOR: THE CASE OF THE TURKISH CONSULTANCY COMPANY

GÖZÜTOK E., ÜLKÜ İ.

Mühendis ve Makina, vol.65, no.716, pp.432-461, 2024 (Peer-Reviewed Journal)

III. SEQUENCING MODEL FOR A SEAT BELT MANUFACTURER

SATIR T., KARATAŞ A., GÜVENDİ FİLİZ Y., SAYAN M., ÜLKÜ İ.

Mühendis ve Makina, vol.65, no.715, pp.243-267, 2024 (Peer-Reviewed Journal)

IV. Triggering corporate sustainable performance in construction sector through green training: Moderating effect of barrier in construction management

Waris İ., ÜLKÜ İ.

Journal of Sustainable Construction Materials and Technologies, vol.8, no.2, pp.96-106, 2023 (Scopus)

V. A PRODUCTION LINE ASSIGNMENT PROBLEM FOR A TEXTILE INDUSTRY

Abdelsalam N., Mohammoud F., Eder H., Abuyoussef A. W., Kaya O., KILIÇ A. C., ÜLKÜ İ.

Mühendislik Bilimleri ve Tasarım Dergisi, vol.11, no.2, pp.22-32, 2023 (Peer-Reviewed Journal)

VI. Churn Prediction in a Pay-TV Company via Data Classification

ÜLKÜ İ., YÜKSEKTEPE F., Yılmaz O., Aktas M. U., Akbalik N.

International Journal of Artificial Intelligence and Machine Learning (IJAIML), vol.11, no.1, pp.39-53, 2021 (Peer-Reviewed Journal)

VII. OTOMOTİV SANAYİSİNE YÖNELİK ANALİTİK BİR YAKLAŞIM

ULKU I., BULKAN S., ÜNEY YÜKSEKTEPE F.

Havacılık ve Uzay Teknolojileri Dergisi, vol.8, no.2, pp.15-23, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Improving Quality Control Applications by Increasing Inspection Efficiency and Decreasing Nonconformance Percentage**
Yılmaz B., Fırat S., Caba C., Beşir B., ÜLKÜ İ.
in: Lecture Notes in Mechanical Engineering, Durakbasa, Numan M., Gençylmaz, M.Güneş, Editor, Springer, Cham, pp.757-767, 2024
- II. **Forecasting Greenhouse Gas Emissions Based on Different Machine Learning Algorithms**
Ülkü I., Ülkü E. E.
in: Lecture Notes in Networks and Systems, Cengiz Kahraman,A. Cagri Tolga,Sezi Cevik Onar,Selcuk Cebi,Basar Oztaysi,Irem Ucal Sari, Editor, Springer-Verlag , İzmir, pp.109-116, 2022
- III. **Monthly Logistics Planning for a Trading Company**
ÜLKÜ İ., Kullab H., Al Mulqi T., Almsadi A., Abousaleh R.
in: Digitizing Production Systems, Prof. Dr. Numan M. Durakbasa, Prof. Dr. M. Güneş Gençylmaz, Editor, Springer, Cham, pp.500-509, 2021
- IV. **Solving the Cutting Stock Problem for a Steel Industry**
ÜLKÜ İ., Tekeoğlu U., Özler M., Erdal N., Tolonay Y.
in: Digitizing Production Systems, Durakbasa, Numan M., Gençylmaz, Güneş M., Editor, Springer, Cham, pp.510-518, 2021
- V. **Churn Prediction in Internet Service Provider Companies**
ÜLKÜ İ., DURAK M. Y., YÜKSEKTEPE F.
in: Intelligent Techniques for Data Analysis in Diverse Settings, Numan Çelebi, Editor, IGI Global Publications, Hershey, Pennsylvania, pp.271-287, 2016
- VI. **Lean Thinking via Business Intelligence Technologies and Innovation Process**
OKTAY FIRAT S. Ü., AĞLAN C., KALENDER Z. T., ÜLKÜ İ., BAYRAM G., ERDEM M.
in: Handbook of Research onDriving Competitive Advantage through Sustainable, Lean, and Disruptive Innovation, Latif Al-Hakim, Xiaobo Wu, Andy Koronios and Yongyi Shou, Editor, IGI GlobalPublications, pp.59-85, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Bir Emniyet Kemer Montaj Hattının İyileştirme Çalışması**
GÜVENDİ FİLİZ Y., SAYAN M., KARATAŞ A., SATIR T., ÜLKÜ İ.
41. Yöneylem Araştırması ve Endüstri Mühendisliği (YA/EM) Ulusal Kongresi, Denizli, Turkey, 26 October 2022
- II. **Forecasting Greenhouse Gas Emissions Based on Different Machine Learning Algorithms**
ÜLKÜ İ., ÜLKÜ E. E.
International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.505 LNNS, pp.109-116
- III. **Solving the Cutting Stock Problem for a Steel Industry**
ÜLKÜ İ., Tekeoğlu U., Özler M., Erdal N., Tolonay Y.
International Symposium for Production Research, ISPR2021, Virtual, Online, 7 - 09 October 2021, pp.510-518
- IV. **Forecasting of Turkey's Total Electricity Consumption in Sectoral Bases Using Machine Learning Algorithms**
Hajjar M. K., ÜLKÜ İ.
4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2022, Ankara, Turkey, 9 - 11 June 2022
- V. **Monthly Logistics Planning for a Trading Company**
ÜLKÜ İ., Kullab H., Al Mulqi T., Almsadi A., Abousaleh R.
International Symposium for Production Research, ISPR2021, Virtual, Online, 7 - 09 October 2021, pp.500-509
- VI. **Cutting Stock Problem for Yılgenci Industry and Trade Corporation**
ÜLKÜ İ., Tekeoğlu U., Özler M., Erdal N., Tolonay Y.
The International Symposium for Production Research-ISPR 2021, Turkey, 7 - 09 October 2021

- VII. **Monthly Logistics Planning For Salem Trading Company In Doha, Qatar**
Kullab H., Mulqı T. A., Almsadi A., Abousaleh R., ÜLKÜ İ.
40. Yöneylem Araştırması ve Endüstri Mühendisliği (YA/EM) Ulusal Kongresi, İstanbul, Turkey, 4 - 07 July 2021
- VIII. **Analyzing The Adoption of Project Management Methodologies and Tools in the Turkey Based Non-Governmental Organizations (Ngos) Working in the Syrian Humanitarian Response**
Alkhater A., ÜLKÜ İ.
40. Yöneylem Araştırması ve Endüstri Mühendisliği (YA/EM) Ulusal Kongresi, İstanbul, Turkey, 4 - 07 July 2021, pp.107
- IX. **A holistic approach for the optimization of offshore wind farm layouts considering cable layouts**
ÜLKÜ İ., Alabas-Uslu C.
2nd International Conference on Renewable Energy and Environment Engineering, REEE 2019, Munich, Germany, 19 - 22 August 2019, vol.122
- X. **Rüzgâr Enerji Santrallerinin Kurulumunda Türbin Yerlerinin ve Elektrik Kablo Bağlantılarının Optimizasyonu**
ÜLKÜ İ., ALABAŞ USLU Ç.
39. Yöneylem Araştırması ve Endüstri Mühendisliği (YA/EM) Ulusal Kongresi, Ankara, Turkey, 12 - 14 June 2019
- XI. **Optimization of Multi-token Circulation with Master UAV Method in Multi-UAV Systems for Location Information Sharing**
ÜLKÜ E. E., ÜLKÜ İ.
11th International Conference on Ubiquitous and Future Networks (ICUFN), Zagreb, Croatia, 2 - 05 July 2019, pp.289-294
- XII. **Wind farm layout optimization to maximize total power production**
ÜLKÜ İ., Alabas-Uslu C.
3rd International Conference on Sustainable and Renewable Energy Engineering, ICSREE 2018, Salamanca, Zamora, Spain, 9 - 11 May 2018, vol.57
- XIII. **Rüzgar Türbinlerinin Yerleşim Problemi İçin Yeni Bir Matematiksel Model**
ÜLKÜ İ., ALABAŞ USLU Ç.
38. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM), Eskişehir, Turkey, 26 - 29 June 2018
- XIV. **Optimization of offshore wind farm cable layouts**
ÜLKÜ İ., ALABAŞ USLU Ç.
Sixth European Conference on Renewable Energy Systems (ECRES2018), İstanbul, Turkey, 25 - 27 June 2018
- XV. **Offshore Wind Farm Layout Optimization Using Mathematical Modeling**
ÜLKÜ İ., ALABAŞ USLU Ç.
2nd International Conference on Engineering and Natural Sciences, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016
- XVI. **An Analysis of Statistical Control Charts with Fuzzy Set Theory**
CEYLAN Z., ÜLKÜ İ., VAYVAY Ö.
International Conference on Value Chain Sustainability, İstanbul, Turkey, 12 - 13 March 2015
- XVII. **An Analytical Approach to Automotive Industry**
ÜLKÜ İ., BULKAN S., YÜKSEKTEPE F.
International Conference on Value Chain Sustainability, 12 - 13 March 2015
- XVIII. **Customer Loyalty in Internet Service Provider Companies**
ÜLKÜ İ., DURAK M. Y., YÜKSEKTEPE F.
20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, 13 - 18 July 2014
- XIX. **Customer churn analysis in telecommunication industry**
DURAK M. Y., ÜLKÜ İ., YÜKSEKTEPE F.
20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, 13 - 18 July 2014
- XX. **Considering Travel Time and Demand Uncertainties While Setting Optimum Transit Line Frequencies**
ÜLKÜ İ., FEYZİOĞLU O.

26th European Conference on Operational Research - INFORMS, Roma, Italy, 1 - 04 July 2013

XXI. Eniyi Toplu Taşıma Sefer Sıklıklarını Belirlemede Yolculuk Süresive Talebindeki Belirsizliğin Gözetilmesi

ÜLKÜ İ., FEYZİOĞLU O.

Yöneylem Araştırması ve Endüstri Mühendisliği 33.Ulusal Kongresi (YAEM 2013) Uluslararası IIE Konferansı, İstanbul, Turkey, 26 - 28 June 2013

XXII. Ders-Asistan Atama Probleminin Matematiksel Modelleme Yaklaşımı ile Çözümü ve Bir Uygulama
YÜKSEKTEPE F., ÜLKÜ İ.

Yöneylem Araştırması ve Endüstri Mühendisliği 31.Ulusal Kongresi (YAEM 2011), Sakarya, Turkey, 5 - 07 July 2011

XXIII. An Analytical Approach to Medical Waste Management in Istanbul

AKTİN A. T., ÜLKÜ İ., YAVUZTÜRK S.

24th European Conference on Operational Research (EURO 24 - Lisbon 2010), Lizbon, Portugal, 11 - 14 July 2010

Supported Projects

Ülkü İ., Company, Tek Boyutlu Stok Kesme Probleminin Çözümü, 2023 - 2023

Metrics

Publication: 38

Citation (WoS): 7

Citation (Scopus): 30

H-Index (WoS): 1

H-Index (Scopus): 2