

MEHMET GÜRAY GÜLER

PROF.

Email : mgguler@yildiz.edu.tr

International Researcher IDs

ScholarID: ez0uTTIAAAAJ

ORCID: 0000-0002-9987-7616

Publons / Web Of Science ResearcherID: ABA-1593-2020

ScopusID: 56725851300

Yoksis Researcher ID: 190433

Education

Doctorate 2005 - 2012	Bogazici University, Endüstri Mühendisliği, Turkey
2003 - 2005	Bogazici University, Endüstri Mühendisliği, Turkey
Undergraduate 1998 - 2002	Bogazici University, Endüstri Mühendisliği, Turkey

Foreign Languages

English, C1 Advanced

Academic Positions

Professor 2022 - Continues	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering
Associate Professor 2017 - 2022	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering
Assistant Professor 2015 - 2016	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering
Research Assistant 2005 - 2013	Bogazici University, Faculty Of Engineering, Department Of Industrial Engineering

Funded Projects

- SAVAŞ Ö., Başer M. S., GÜLER M. G., KESKİN ÖNER İ., Project Supported by Higher Education Institutions, Fonksiyonel derecelendirilmiş TiB2/Al kompozitlerin üretimi ve kam diski olarak kullanılabilirliğinin araştırılması, 2020 - 2022

2. Güler M. G., Yağız İ. İ., TUBITAK Project, MRO-OPTİMİZER: AIRPLANE MAINTAINANCE OPTIMUM SCHEDULING SYSTEM, 2016 - 2018
3. Gürsoy M., Özen H., Yardım M. S., Kuşakcı Gündoğar S. Ş., Saraçoğlu A., Tuzkaya U. R., Demir İ., Kaya İ., Güler M. G., Technopark, İstanbul Lojistik Ana Planı Çalışması, 2015 - 2017
4. Güler M. G., Erol K., TUBITAK Project, V-NOS: Vivense Freight Optimization System, 2015 - 2016

Journal articles indexed in SCI, SSCI, and AHCI

1. **A multi period and multi objective stochastic hydrogen supply chain for Turkey**
Türkali Özbek B., Güler M. G.
International Journal of Hydrogen Energy, vol.107, pp.618-631, 2025 (SCI-Expanded)
2. **Renewable GenCo bidding strategy using newsvendor-based neural networks: An example from Turkish electricity market**
Polat E., GÜLER M. G., Ulukuş M. Y.
Electric Power Systems Research, vol.231, 2024 (SCI-Expanded)
3. **Locating hydrogen fuel stations: A comparative study for Istanbul**
Gündüz S. B., GEÇİCİ E., GÜLER M. G.
International Journal of Hydrogen Energy, vol.52, pp.1234-1246, 2024 (SCI-Expanded)
4. **Optimization and analysis of a hydrogen supply chain in terms of cost, CO2 emissions, and risk: the case of Turkey**
Erdoğan A., GÜLER M. G.
International Journal of Hydrogen Energy, vol.48, no.60, pp.22752-22765, 2023 (SCI-Expanded)
5. **Design of a future hydrogen supply chain: A multi-objective model for Turkey**
Erdoğan A., GEÇİCİ E., GÜLER M. G.
International Journal of Hydrogen Energy, vol.48, no.31, pp.11775-11789, 2023 (SCI-Expanded)
6. **Multi-period planning of hydrogen refuelling stations using flow data: A case study for Istanbul**
GEÇİCİ E., GÜLER M. G., Bilgiç T.
International Journal of Hydrogen Energy, vol.47, no.95, pp.40138-40155, 2022 (SCI-Expanded)
7. **Muller muscle conjunctival resection or external levator advancement; a quantitative comparison of symmetry in unilateral ptosis ***
Cabuk K. S., Nacaroglu S. A., Karabulut G. O., Fazil K., ARSLAN M. S., GÜLER M. G., Taskapili M.
EUROPEAN JOURNAL OF OPHTHALMOLOGY, vol.32, no.4, pp.2125-2132, 2022 (SCI-Expanded)
8. **An analysis on the marketing budget of a newsvendor**
GÜLER M. G.
OPERATIONAL RESEARCH, vol.22, no.3, pp.2587-2603, 2022 (SCI-Expanded)
9. **A data-driven matching algorithm for ride pooling problem**
Sahin A., SEVİM İ., Albey E., GÜLER M. G.
COMPUTERS & OPERATIONS RESEARCH, vol.140, 2022 (SCI-Expanded)
10. **Scheduling the vehicles of bus rapid transit systems: a case study**
SEVİM İ., Tekiner-Mogulkoc H., GÜLER M. G.
INTERNATIONAL TRANSACTIONS IN OPERATIONAL RESEARCH, vol.29, no.1, pp.347-371, 2022 (SCI-Expanded)
11. **A web-based decision support system for examination timetabling**
GÜLER M. G., GEÇİCİ E., Köroğlu T., Becit E.
Expert Systems with Applications, vol.183, 2021 (SCI-Expanded)
12. **Optimal pricing and inventory strategies for fashion products under time-dependent interest rate and demand**
Akan M., Albey E., GÜLER M. G.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.154, 2021 (SCI-Expanded)
13. **Design of a future hydrogen supply chain: A multi period model for Turkey**
GÜLER M. G., GEÇİCİ E., Erdoğan A.

- International Journal of Hydrogen Energy, vol.46, pp.16279-16298, 2021 (SCI-Expanded)
14. **A decision support system for scheduling the shifts of physicians during COVID-19 pandemic**
GÜLER M. G., GEÇİCİ E.
Computers and Industrial Engineering, vol.150, 2020 (SCI-Expanded)
 15. **A spreadsheet-based decision support system for examination timetabling**
GÜLER M. G., GEÇİCİ E.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.28, no.3, pp.1584-1598, 2020 (SCI-Expanded)
 16. **Advertising and forecasting investments of a newsvendor**
GÜLER M. G.
4OR-A QUARTERLY JOURNAL OF OPERATIONS RESEARCH, vol.17, no.1, pp.45-73, 2019 (SCI-Expanded)
 17. **Influence maximization in social networks: an integer programming approach**
KESKİN M. E., GÜLER M. G.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.6, pp.3383-3396, 2018 (SCI-Expanded)
 18. **Examination timetabling problem with scarce resources: a case study**
KESKİN M. E., DÖYEN A., AKYER H., GÜLER M. G.
EUROPEAN JOURNAL OF INDUSTRIAL ENGINEERING, vol.12, no.6, pp.855-874, 2018 (SCI-Expanded)
 19. **Joint pricing and inventory control for additive demand models with reference effects**
Güler M. G., Bilgic T., Gullu R.
ANNALS OF OPERATIONS RESEARCH, vol.226, pp.255-276, 2015 (SCI-Expanded)
 20. **Coordinating decentralised assembly systems with random yield and random demand**
Güler M. G.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.53, no.3, pp.886-896, 2015 (SCI-Expanded)
 21. **On teaching assistant-task assignment problem: A case study**
Güler M. G., KESKİN M. E., Doyen A., Akyer H.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.79, pp.18-26, 2015 (SCI-Expanded)
 22. **Joint inventory and pricing decisions when customers are delay sensitive**
Güler M. G., Bilgic T., Gullu R.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.157, pp.302-312, 2014 (SCI-Expanded)
 23. **Joint inventory and pricing decisions with reference effects**
Güler M. G., Bilgiç T., Güllü A. R.
IIE TRANSACTIONS, vol.46, pp.330-343, 2014 (SCI-Expanded)
 24. **A note on: "The effect of optimal advertising on the distribution-free newsboy problem"**
Güler M. G.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.148, pp.90-92, 2014 (SCI-Expanded)
 25. **The value of modeling with reference effects in stochastic inventory and pricing problems**
Güler M. G.
EXPERT SYSTEMS WITH APPLICATIONS, vol.40, no.16, pp.6593-6600, 2013 (SCI-Expanded)
 26. **A hierarchical goal programming model for scheduling the outpatient clinics**
Güler M. G.
EXPERT SYSTEMS WITH APPLICATIONS, vol.40, no.12, pp.4906-4914, 2013 (SCI-Expanded)
 27. **On coordination under random yield and random demand**
Güler M. G., Keskin M. E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.40, no.9, pp.3688-3695, 2013 (SCI-Expanded)
 28. **A goal programming model for scheduling residents in an anesthesia and reanimation department**
GÜLER M. G., İDİN K., Guler E. Y.
EXPERT SYSTEMS WITH APPLICATIONS, vol.40, no.6, pp.2117-2126, 2013 (SCI-Expanded)
 29. **On coordinating an assembly system under random yield and random demand**
Güler M. G., Bilgic T.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.196, pp.342-350, 2009 (SCI-Expanded)

Articles Published in Other Journals

1. **A decision support system for nurse scheduling problem**
Gecici E., GÜLER M. G.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.4, pp.749-757, 2020 (ESCI)
2. **Optimal pricing policy with inventory related costs and reference effects**
GÜLER M. G., Akan M., SEVİM İ.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, no.4, pp.451-461, 2017 (ESCI)
3. **Automated vehicle scheduling system A case of Metrobus System**
SEVİM İ., TEKİNER MOĞULKOÇ H., GÜLER M. G., Mutlu Z. P.
sigma journal of engineering and natural sciences, vol.7, no.1, pp.1-7, 2016 (ESCI)
4. **Automated Vehicle Scheduling System: A Case Study of Metrobus System**
SEVİM İ., TEKİNER MOĞULKOÇ H., GÜLER M. G.
Sigma Journal of Engineering and Natural Sciences, vol.1, no.7, pp.1-7, 2016 (ESCI)
5. **Should Inventory Managers Care About Consumer Behavior?**
Güler M. G., Bilgiç T., Güllü A. R.
ISE Magazine, vol.46, no.1, pp.1-3, 2014 (Non Peer-Reviewed Journal)

Books

1. **Electricity Market Structure and Forecasting Market Clearing Prices**
Derinkuyu K., Güler M. G.
in: Environmentally-Benign Energy Solutions, Ibrahim Dincer, C. Ozgur Colpan, Mehmet Akif Ezan, Editor, Springer, London/Berlin , Ontario, pp.155-175, 2020
2. **Production Planning Using Day-Ahead Prices in a Cement Plant**
GÜLER M. G., EMİR T.
in: Exergetic, Energetic and Environmental Dimensions, Ibrahim Dincer, C. Ozgur Colpan, Onder Kizilkan, Editor, Springer, 2018
3. **Building Empirical Models**
Güler M. G.
in: Engineering Statistics, Coşkun Özkan, Editor, Palme Yayın Dağıtım, İstanbul, pp.299-359, 2016

Papers Presented at Peer-Reviewed Scientific Conferences

1. **Impact of Turkish National Culture on Agile Software Development in Turkey**
Gelmis A., Ozkan N., Ahmad A. J., GÜLER M. G.
6th International Conference on Lean and Agile Software Development (LASD), ELECTR NETWORK, 22 January 2022, vol.438, pp.78-95, (Full Text)
2. **Electricity Market Structure and Forecasting Market Clearing Prices**
Derinkuyu K., GÜLER M. G.
7th Global Conference on Global Warming (GCGW), İzmir, Turkey, 24 - 28 June 2018, pp.155-175
3. **Hydrogen Supply Network**
Geçici E., Güler M. G.
WESCE, İstanbul, Turkey, 26 - 28 August 2019, pp.1-2
4. **Günes Enerjisinden Elektrik Üretim Miktarının Makine Öğrenmesi Yöntemleri Ile Tahmini**
Yazıcı S., Güler M. G.
37. YAEM Ulusal Kongresi, İstanbul, Turkey, 5 - 07 July 2017, pp.96

5. **Nakliye Optimizasyonu: Bir E-ticaret Firmasında Uygulama**
Güler M. G., Sevim İ., Erol K.
37. YAEM Ulusal Kongresi, İstanbul, Turkey, 5 - 07 July 2017, pp.19
6. **Gün Öncesi Elektrik Piyasası Kullanarak Enerji Verimli Üretim Planlama Çimento Fabrikası Uygulaması**
Güler M. G., Emir T.
37. YAEM Ulusal Kongresi, İstanbul, Turkey, 5 - 07 July 2017, pp.23
7. **Ders Çizelgeleme Karar Destek Sistemi**
Yılmaz B., Sarıkoç R., Altındal T., Güler M. G.
37. YAEM Ulusal Kongresi, İstanbul, Turkey, 5 - 07 July 2017, pp.58-59, (Summary Text)
8. **Bir E-Ticaret Firmasında Tasıyıcı Seçmeli ve Siparis Birleştirmeli Araç Rotalama Uygulaması**
Erdogdu F., Güler M. G.
37. YAEM Ulusal Kongresi, İstanbul, Turkey, 5 - 07 July 2017, pp.19
9. **A ENERGY EFFICIENT PRODUCTION PLANNING MODEL USING A DAY AHEAD PRICES THE CASE OF A CEMENT PLANT**
EMİR T., GÜLER M. G.
2nd INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2016 - ICES2016, 21 - 23 December 2016
10. **Çok Garajlı Araç Çizelgeleme Problemi'nin Çok Ürünlü Akis Modeli Tabanlı Sezgisellerle Çözümü**
SEVİM İ., TEKİNER MOĞULKOÇ H., GÜLER M. G.
Yöneylem Araştırması ve Endüstri Mühendisliği 36. Ulusal Kongresi, İzmir, Turkey, 13 July 2016
11. **Using Fuzzy AHP and Conjoint Analysis to Identify Importance Degrees of Parameters on Academic Performance**
İLBAHAR E., ÇEBİ S., GÜLER M. G.
The 4th International Fuzzy Systems Symposium, 5 - 06 November 2015
12. **NETWORK DESIGN OF URBAN LOGISTICS SYSTEMS AN APPLICATION FOR MEAT PRODUCTS SECTOR**
TANYAŞ M., TUZKAYA U. R., GÜLER M. G., YILMAZER K. B.
XIII. INTERNATIONAL LOGISTICS & SUPPLY CHAIN CONGRESS 2015, İzmir, Turkey, 22 - 23 October 2015, pp.318-324
13. **Sınırlı Kaynaklar Altında Sınav Çizelgeleme**
Güler M. G., Keskin M. E., Döyen A., Akyer H.
34. YAEM Ulusal Kongresi, Bursa, Turkey, 25 - 27 June 2014, pp.16, (Summary Text)
14. **Raf Alan Optimizasyonu**
Güler M. G., Çebi S., Dal B., Baydemir T.
34. YAEM Ulusal Kongresi, Bursa, Turkey, 25 - 28 June 2014, pp.14
15. **Optimal pricing-inventory decisions under reference effects**
Güler M. G., Akan M.
33. YAEM Ulusal Kongresi, İstanbul, Turkey, 26 - 28 June 2013, pp.34
16. **The effect of advertising and forecasting on the newsboy problem**
Güler M. G.
33. YAEM Ulusal Kongresi, İstanbul, Turkey, 26 - 28 June 2013, pp.34
17. **Nöbet Çizelgeleri Hem Adil Hem de Çabuk Hazırlanabilir mi? "Bir Amaç Programlama Uygulaması"**
İdin K., Güler M. G., Öztürk E., Güler E. Y.
Türk Anesteziyoloji ve Reanimasyon Derneği 46.Ulusal Kongresi, Girne, Cyprus (Kktc), 7 - 11 November 2012
18. **Joint Pricing and Inventory Decisions with Delay Sensitive Customers**
Güler M. G., Bilgiç T., Güllü A. R.
17th International Symposium on Inventories, Budapest, Hungary, 20 - 24 August 2012, pp.163
19. **On Coordination Under Random Yield and Random Demand**
Güler M. G., Bilgiç T.
EURO XXV, Vilnius, Lithuania, 8 - 11 July 2012, pp.132, (Summary Text)
20. **Joint Pricing and Control for Additive Demand Models With Reference Effects**
Güler M. G., Bilgiç T., Güllü A. R.

4th P&OM World Conference, Amsterdam, Netherlands, 2 - 04 July 2012, pp.150-162

21. Pricing and inventory control in a multi-class queueing system

Güler M. G., Bilgiç T., Güllü A. R.

4th World Conference P&OM , Amsterdam, Netherlands, 1 - 05 July 2012, pp.111-122, (Full Text)

22. Beklemeye Duyarlı Müşteriler ile Stok ve Fiyatlandırma Kararları

Güllü A. R., Güler M. G., Bilgiç T.

32. YAEM Ulusal Kongresi, İstanbul, Turkey, 20 - 22 June 2012, pp.24, (Summary Text)

23. Toplanır Rassallık İçeren Talep Modellerinde Referans Etkisi Altında Birleşik Stok ve Fiyatlandırma Kararları

Bilgiç T., Güler M. G., Güllü A. R.

32. YAEM Ulusal Kongresi, İstanbul, Turkey, 20 - 22 June 2012, pp.15

24. Doktor Nöbetlerinin Çizelgelenmesi Üzerine Bir Uygulama

Güler M. G., İdin K., Yılmaz Güler E.

32. YAEM Ulusal Kongresi, İstanbul, Turkey, 20 - 22 June 2012, pp.14

25. Joint Inventory and Pricing Decisions with Reference Effects

Güler M. G., Bilgiç T., Güllü A. R.

23rd Annual POMS Conference, Illinois, United States Of America, 20 - 23 April 2012, pp.110

Courses

Postgraduate

Finansal Yönetim, Postgraduate, 2019 - 2020, 2018 - 2019

Seminer, Postgraduate, 2019 - 2020, 2018 - 2019

Undergraduate

Advanced Computer Programming, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Introduction to Computer Sciences, Undergraduate, 2020 - 2021

Statistics, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Artificial Intelligence and Expert Systems, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Cost Accounting in Industrial Engineering, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Probability, Undergraduate, 2017 - 2018

Financial Management - Gr1, Undergraduate, 2017 - 2018, 2016 - 2017

Material Handling Systems, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Endüstriye Maliyet Muhasebesi, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Financial Management - Gr2, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Quality Management, Undergraduate, 2016 - 2017

E-business Management, Undergraduate, 2015 - 2016

Supervised Theses

Ahmad A. J., Güler M. G., AN EXPLORATORY INVESTIGATION INTO THE USE OF AGILE DEVELOPMENT IN THE TURKISH SOFTWARE DEVELOPMENT SECTOR, Postgraduate, A.Gelmiş(Student), 2020

Bayyurt N., Güler M. G., Elektrik üretim ve fiyat tahmin yöntemleriyle elektrik piyasasındaki dengesizlik maliyetlerinin optimizasyonu, Postgraduate, S.YAZICI(Student), 2020

Güler M. G., Elektrik fiyatlarının üretim planlama sürecine etkisi: bir çimento fabrikası uygulaması, Postgraduate, T.EMİR(Student), 2018

Tekiner Moğulkoç H., Güler M. G., A state space reduction heuristic for multiple depot vehicle scheduling problem, Postgraduate, İ.SEVİM(Student), 2016

Metrics

Publication: 73

Citation (WoS): 263

Citation (Scopus): 474

H-Index (WoS): 9

H-Index (Scopus): 13

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Inventory Systems, Scheduling, Service Systems
Modeling and Analysis, Supply Chain and Logistics Management

Non Academic Experience

Lojika Bilgi Teknolojileri A.Ş., ArGe Müdürü