

## Asst. Prof. ÖMER FARUK GÜRCAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAB-2134-2022

ScopusID: 57209239500

Yoksis Researcher ID: 104363

### Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği, Turkey 2014 - 2022

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mühendislik Yönetimi, Turkey 2011 - 2014

Undergraduate, Selcuk University, Faculty Of Engineering, Department Of Industrial Engineering, Turkey 2006 - 2011

### Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2013 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhancing E-Business Communication with a Hybrid Rule-Based and Extractive-Based Chatbot**  
Dogan O., Gurcan Ö. F.  
JOURNAL OF THEORETICAL AND APPLIED ELECTRONIC COMMERCE RESEARCH, vol.19, no.3, pp.1984-1999, 2024 (SSCI)
- II. **An Intelligent System for Determination of Stop-Loss and Take-Profit Limits: A Dynamic Decision Learning Approach via Fuzzy Soft Set Approach**  
ARI E., ÜSTÜNDAĞ A., SİVRİ M. S., GÜRCAN Ö. F., BEYCA Ö. F., gultekin a. b.  
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.43, pp.561-577, 2024 (SCI-Expanded)
- III. **A comparative analysis of machine learning techniques and fuzzy analytic hierarchy process to determine the tacit knowledge criteria**  
YAZICI İ., Beyca Ö. F., Gürcan Ö. F., Zaim H., Delen D., Zaim S.  
ANNALS OF OPERATIONS RESEARCH, vol.308, no.1-2, pp.753-776, 2022 (SCI-Expanded)
- IV. **A Comprehensive Study of Machine Learning Methods on Diabetic Retinopathy Classification**  
Gürcan Ö. F.  
International Journal of Computational Intelligence Systems, vol.14, no.1, pp.1132-1141, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Taguchi Deneý Tasarımı ile Fiber Optik Kablo Üretimi Proses Optimizasyonu**  
Karadađ İ., Dündar S., Gürcan Ö. F.  
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.36, no.2, pp.743-754, 2024 (Peer-Reviewed Journal)
- II. **Analysis of G20 Countries in terms of Scientific Publication Performances**  
Dündar S., Gürcan Ö. F., Karadađ İ.  
JOURNAL OF MEHMET AKIF ERSOY UNIVERSITY ECONOMICS AND ADMINISTRATIVE SCIENCES FACULTY, vol.11, no.2, pp.589-611, 2024 (ESCI)
- III. **Selecting The Optimal E-Learning Platform for Universities: A Pythagorean Fuzzy AHP/TOPSIS Evaluation**  
AKARGÖL İ., KARADAĐ İ., GÜRCAN Ö. F.  
The European Journal of Research and Development, vol.4, no.2, pp.19-34, 2024 (Peer-Reviewed Journal)
- IV. **A Hybrid Deep Learning-Metaheuristic Model for Diagnosis of Diabetic Retinopathy**  
Gürcan Ö. F., Atıcı U., Beyca Ö. F.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.36, no.2, pp.693-703, 2023 (ESCI)
- V. **A fuzzy multi-criteria decision-making method for selection of criteria for an e-learning platform**  
GÜLDEŞ M., GÜRCAN Ö. F., ATICI U., ŞAHİN C.  
European Journal of Science and Technology, no.32, pp.797-806, 2021 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Enhancing Hospital Services: Utilizing Chatbot Technology for Patient Inquiries**  
DOĐAN O., GÜRCAN Ö. F.  
in: Lecture Notes in Networks and Systems, KAHRAMAN CENGİZ, ÇEVİK ONAR SEZİ, ÇEBİ SELÇUK, ÖZTAYŞI BAŞAR, TOLGA ABDULLAH ÇAĞRI, UÇAL SARI İREM, Editor, Springer, Cham., pp.233-239, 2024
- II. **A Dynamic Feature Selection Technique for the Stock Price Forecasting**  
SİVRİ M. S., gultekin a. b., ÜSTÜNDAĐ A., BEYCA Ö. F., GÜRCAN Ö. F., ARI E.  
in: Intelligent and Fuzzy Systems. INFUS 2023. Lecture Notes in Networks and Systems, Kahraman, C., Sari, I.U., Oztaysi, B., Cebi, S., Cevik Onar, S., Tolga, A.Ç., Editor, Springer, Cham., pp.730-737, 2023
- III. **An Intelligent System for Determination of Stop – Loss and Take – Profit Limits: A Dynamic Decision Learning Approach**  
SİVRİ M. S., gultekin a. b., ÜSTÜNDAĐ A., BEYCA Ö. F., ARI E., GÜRCAN Ö. F.  
in: Intelligent and Fuzzy Systems. INFUS 2023. Lecture Notes in Networks and Systems, Kahraman, C., Sari, I.U., Oztaysi, B., Cebi, S., Cevik Onar, S., Tolga, A.Ç., Editor, Springer, Cham., pp.617-624, 2023
- IV. **Multi-Criteria Decision-Making Methods for Biomass Energy Systems: A Review**  
Güldeş M., Gürcan Ö. F.  
in: Optimization and Decision-Making in the Renewable Energy Industry, Figen Balo,Ayse Topal,Ezgi Demir,Alptekin Ulutas, Editor, IGI Global, Pennsylvania, pp.182-214, 2022
- V. **A Fuzzy Multi-Criteria Decision-Making Method for Selection of Biomass Power Plant Location**  
ATICI U., GÜRCAN Ö. F., GÜLDEŞ M., ŞAHİN C.  
in: Optimization and Decision-Making in the Renewable Energy Industry, Figen Balo, Ezgi Demir and Alptekin Ulutaş, Editor, IGI Global, pp.1-30, 2022
- VI. **A Forecasting Study of Covid-19 Epidemic: Turkey Case**  
GÜRCAN Ö. F., BEYCA Ö. F., ATICI U., ER O.  
in: Intelligent and Fuzzy Systems, Kahraman, C., Tolga, A.C., Cevik Onar, S., Cebi, S., Oztaysi, B., Sari, I.U., Editor, Springer, Cham., pp.263-271, 2022
- VII. **A Detailed Comparison of Deep Neural Networks for Diagnosis of COVID-19**  
BİÇER M. B., DOĐAN O., GÜRCAN Ö. F.  
in: Deep Learning in Biomedical and Health Informatics, , Editor, CRC Press, pp.79-95, 2021

- VIII. **Measuring the Impact of Tacit Knowledge on Individual and Financial Performances: A Field Study in Turkey**  
TARIM M., ERZURUM E., AKCAN A. F., GÜRCAN Ö. F., ZAİM H., ZAİM S.  
in: Financial Ecosystem and Strategy in the Digital Era, Hacıoglu Umit, Aksoy Tamer, Editor, Springer, pp.17-33, 2021
- IX. **Diagnosis of COVID-19 Using Deep CNNs and Particle Swarm Optimization**  
GÜRCAN Ö. F., ATICI U., BIÇER M. B., DOĞAN O.  
in: Intelligent and Fuzzy Techniques for Emerging Conditions and Digital Transformation, Kahraman C., Cebi S., Cevik Onar S., Oztaysi B., Tolga A.C., Sari I.U., Editor, Springer, Cham., pp.305-312, 2021
- X. **Analysis of Frequent Visitor Patterns in a Shopping Mall**  
DOĞAN O., GÜRCAN Ö. F., ÖZTAYŞI B., GOKDERE U.  
in: Industrial Engineering in the Big Data Era, Calisir Fethi, Cevikcan Emre, Camgoz -Akdag Hatice, Editor, Springer, pp.217-227, 2019
- XI. **Applications of Big Data and Green IoT Enabling Technologies for Smart Cities**  
DOĞAN O., GÜRCAN Ö. F.  
in: Handbook of Research on Big Data and the IoT, Gurjit Kaur and Pradeep Tomar, Editor, IGI Global, pp.22-41, 2019
- XII. **Optimal Strategy Selection in a Supply Chain**  
GÜRCAN Ö. F., erdoğan a.  
in: Handbook of Research on Applied Optimization Methodologies in Manufacturing Systems, , Editor, IGI Global, pp.231-250, 2017
- XIII. **Factors Influencing Effective Knowledge Transfer in Organizations**  
GÜRCAN Ö. F., ALTIN GÜMÜŞSOY Ç.  
in: Global Practices in Knowledge Management for Societal and Organizational Development, , Editor, IGI Global, pp.271-292, 2017

## Refereed Congress / Symposium Publications in Proceedings

- I. **Küresel Bulanık AROMAN ve Q-Seviyeli Bulanık (Q-ROF) AROMAN Kullanarak Sivas'ın İlçelerinin Önem Ağırlıklarının Afet Yönetimi Açısından Değerlendirilmesi**  
Akargöl İ., Karadağ İ., GürCAN Ö. F., Dündar S.  
43. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, Trabzon, Turkey, 2 - 04 October 2024
- II. **Diagnosis of Diabetic Retinopathy with Transfer Learning and Metaheuristic Algorithms**  
GÜRCAN Ö. F., BEYCA Ö. F., OLUÇOĞLU M.  
2023 Innovations in Intelligent Systems and Applications Conference (ASYU), Sivas, Turkey, 11 - 14 October 2023, pp.1-6
- III. **A Framework for the Concept of Social Transcript As a Part of Smart University**  
OLUÇOĞLU M., DOĞAN O., GÜRCAN Ö. F.  
2023 Innovations in Intelligent Systems and Applications Conference (ASYU), Sivas, Turkey, 11 - 13 October 2023, pp.1-6
- IV. **An Intelligent System for Determination of Stop – Loss and Take – Profit Limits: A Dynamic Decision Learning Approach**  
Sivri M. S., Gultekin A. B., Üstündağ A., Beyca Ö. F., Arı E., GÜRCAN Ö. F.  
Intelligent and Fuzzy Systems - Intelligence and Sustainable Future Proceedings of the INFUS 2023 Conference, İstanbul, Turkey, 22 - 24 August 2023, vol.759 LNNS, pp.617-624
- V. **A Dynamic Feature Selection Technique for the Stock Price Forecasting**  
Sivri M. S., Gultekin A. B., Üstündağ A., Beyca Ö. F., GÜRCAN Ö. F., Arı E.  
Intelligent and Fuzzy Systems - Intelligence and Sustainable Future Proceedings of the INFUS 2023 Conference, İstanbul, Turkey, 22 - 24 August 2023, vol.758 LNNS, pp.730-737
- VI. **A Forecasting Study of Covid-19 Epidemic: Turkey Case**

GÜRCAN Ö. F., BEYCA Ö. F., ATICI U., ER O.

INFUS 2022, 19 July 2022, pp.263-271

**VII. Diagnosis of COVID-19 using Deep CNNs and Particle Swarm Optimization**

GÜRCAN Ö. F., ATICI U., BIÇER M. B., DOĞAN O.

International Conference on Intelligent and Fuzzy Systems, İzmir, Turkey, 06 May 2021

**VIII. Realising Newspaper Sales by Using Statistic Methods**

Dogan O., Gürcan Ö. F.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, pp.875-883

**IX. Data Perspective of Lean Six Sigma in Industry 4.0 Era: A Guide to Improve Quality**

DOĞAN O., GÜRCAN Ö. F.

2nd International Conference on Industrial Engineering and Operations Management, Paris, France, 26 - 27 July 2018, pp.943-953

**X. The Factors Affecting Knowledge Transfer Intention and Mediating Effect of Transactive Memory System**

GÜRCAN Ö. F., ÖKSÜZ M. K., DOĞAN O.

2nd International Conference On Industrial Engineering And Operations, Paris, France, 26 - 27 July 2018, pp.954-962

**XI. A Customer Satisfaction Study in an Airline Company Centered in Turkey**

GÜRCAN Ö. F., BEYCA Ö. F., AKCAN A. F., ZAIM S.

Global Joint Conference of Industrial Engineering and Its Application Areas, 22 - 23 June 2018

**XII. A Study on Giving Priority of Transition for Emergency Vehicles with Machine Communication**

L Osman K., DOĞAN O., GÜRCAN Ö. F.

International Symposium on Industry 4.0 and Applications (ISIA 2017), Karabük, Turkey, 12 - 14 October 2017

**XIII. Big Data, Smart City and Smart City Initiatives of Istanbul**

GÜRCAN Ö. F., DOĞAN O.

International Symposium on Industry 4.0 and Applications (ISIA 2017), Karabük, Turkey, 12 - 14 October 2017

**XIV. Big Data and Energy-A Review**

GÜRCAN Ö. F., YAZICI İ.

International Symposium on Industry 4.0 and Applications, Karabük, Turkey, 12 - 14 October 2017

**XV. BIG DATA APPLICATIONS FOR BUILDING SMART CITIES A CANDIDATE SMART CITY ISTANBUL**

GÜRCAN Ö. F.

International Congress of Management Economy and Policy, İstanbul, Turkey, 26 - 27 November 2016, pp.3499-3507

**XVI. FACTOR ANALYSIS IN AN AIRLINE COMPANY FOR DETERMINING CUSTOMER SATISFACTION**

GÜRCAN Ö. F., YAZICI İ.

Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, İstanbul, Turkey, 12 - 14 October 2016, pp.600-605

**XVII. Third Party Logistics (3PL) Provider Selection with AHP Application**

GÜRCAN Ö. F., YAZICI İ., BEYCA Ö. F., YAVUZ ARSLAN Ç., ELDEMİR F.

12th International Strategic Management Conference, KARADAĞ, 21 - 23 July 2016, vol.235, pp.226-234

**XVIII. The Factors Affecting Knowledge Transfer between Individuals in Organizations**

GÜRCAN Ö. F., ALTIN GÜMÜŞSOY Ç.

Global Joint Conference on Industrial Engineering and Its Application Areas, İstanbul, Turkey, 14 - 15 July 2016, pp.281-290

**XIX. Vehicle Technology Selection with Integrated Fuzzy AHP TOPSIS Method**

YAZICI İ., GÜRCAN Ö. F.

Global Joint Conference on Industrial Engineering and Its Application Areas, İstanbul, Turkey, 14 - 15 July 2016, pp.413-422

**XX. Determining the Critical Factors of Tacit Knowledge in Service Industry in Turkey**

ZAIM H., GÜRCAN Ö. F., TARIM M., ZAIM S., ALPKAN İ.

11th International Strategic Management Conference 2015, viyana, Austria, 23 - 25 July 2015

## Supported Projects

Gürcan Ö. F., Dođan O., Project Supported by Higher Education Institutions, Sivas Cumhuriyet Üniversitesi Araştırma ve Uygulama Hastanesi'ne Gelen Soruları Web Tabanlı Analiz Etme, Yanıtlama ve Raporlama için Bir Sohbet Robotunun Geliştirilmesi, 2023 - 2024

## Metrics

Publication: 42

Citation (WoS): 67

Citation (Scopus): 89

H-Index (WoS): 4

H-Index (Scopus): 5