

# MURAT LEVENT DEMİRCAN

## ASSOC. PROF.

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34349

### International Researcher IDs

ScholarID: miWigD8AAAAJ

ORCID: 0000-0002-6801-9571

Publons / Web Of Science ResearcherID: L-5403-2016

ScopusID: 8502106200

Yoksis Researcher ID: 132161



## Biography

Demircan was born in Istanbul in 1974. After graduating from Galatasaray High School, he graduated from ITU Faculty of Business Administration, Department of Industrial Engineering, M.B.A. in finance and marketing from the University of Pittsburgh Katz Graduate School of Business. After completing his education, he completed his doctoral studies in the field of Fuzzy Logic and Applications in Engineering Economics at Istanbul Technical University. He graduated from the Industrial Engineering Department of the Institute of Science and Technology. Demircan, who currently teaches Productivity Management, Project Management, Investment Analysis and Engineering Economics at Galatasaray University Faculty of Engineering and Technology Industrial Engineering Department, has more than 20 years of private sector experience in addition to his academic studies.

After starting to work as a Geographic Information Systems consultant in the private sector in 1999; He was involved in the establishment of Troysis, a company that provides software development services in the USA, France, Canada and Italy, and later served as Deputy General Manager of Technology and Operations at Tempo, one of the largest call centers in our country. After establishing the Gold Bilgisayar customer loyalty program, he worked at the general directorates of Mobilnet, Vegatel and TBilgi call centers, respectively.

Demircan currently provides Digital Transformation consultancy to corporate companies and carries out digital transformation projects; He also works on Digital Transformation, Digital and Financial Literacy, Data Science, Digital Business Models, Fuzzy Logic in Multi-Criteria Decision Making Methods, Renovation Analysis and Valuation in Engineering Economics, Alternative Economy, and provides voluntary mentoring and training to entrepreneurs in many Startup Accelerator programs. Apart from his academic publications, he has many articles and 2 published books.

## Learning Knowledge

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Doctorate  
2000 - 2005

Istanbul Technical University, İşletme Fakültesi, Endüstri Mühendisliği Bölümü,  
Turkey

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Postgraduate  
1997 - 1998

University of Pittsburgh, M.B.A., United States Of America

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Undergraduate  
1993 - 1997

Istanbul Technical University, İşletme Fakültesi, Endüstri Mühendisliği Bölümü,  
Turkey

## Foreign Languages

French, C1 Advanced  
English, C1 Advanced

## Dissertations

Doctorate, Fuzzy Replacement Analysis, Istanbul Technical University, 2005

## Academic Titles / Tasks

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Associate Professor  
2024 - Continues

Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği

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Assistant Professor  
2005 - 2024

Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği

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Research Assistant  
1999 - 2005

Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği

## Supported Projects

1. DEMİRCAN M. L., Project Supported by Higher Education Institutions, TİP-2 BULANIK SAYI İÇEREN ÇOK ÖLÇÜTLÜ KARAR VERME YÖNTEMLERİYLE ÇAĞRI MERKEZİ SANTRAL TEKNOLOJİLERİ ARASINDA YENİLEME YATIRIMI KARARLARININ VERİLMESİ, 2015 - 2017

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

1. **Evaluation of software development suppliers in banking sector using neutrosophic fuzzy EDAS**  
DEMİRCAN M. L., Acarbay A.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.42, no.1, pp.389-400, 2022 (SCI-Expanded)
2. **A Proposed Method to Evaluate Warehouse Location for 3PL Cold Chain Suppliers in Gulf Countries Using Neutrosophic Fuzzy EDAS**  
Demircan M. L., Özcan B.  
International Journal of Computational Intelligence Systems, vol.14, no.1, 2021 (SCI-Expanded)
3. **A Proposed Order Prediction Methodology for Vendor-Managed Inventory System in FMCG Sector Based on Interval-Valued Intuitionistic Fuzzy Sets**  
DEMİRCAN M. L., Merdan E.  
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.14, no.1, pp.1489-1500, 2021 (SCI-

Expanded)

4. **A proposed service level improvement methodology for public transportation using interval type-2 fuzzy edas based on customer satisfaction data**  
DEMİRCAN M. L., Tunc S.  
Journal of Multiple-Valued Logic and Soft Computing, vol.35, no.1-2, pp.113-124, 2020 (SCI-Expanded)
5. **A Comparative Fuzzy Real Options Valuation Model using Trinomial Lattice and Black-Scholes Approaches: A Call Center Application**  
TOLGA A. Ç., Kahraman C., DEMİRCAN M. L.  
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.16, pp.135-154, 2010 (SCI-Expanded)
6. **Determining key capabilities in technology management using fuzzy analytic hierarchy process: A case study of Turkey**  
Erensal Y. C., Oencan T., Demircan M. L.  
Information Sciences, vol.176, no.18, pp.2755-2770, 2006 (SCI-Expanded)
7. **Operating system selection using fuzzy replacement analysis and analytic hierarchy process**  
Tolga E., Demircan M., Kahraman C.  
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.97, no.1, pp.89-117, 2005 (SCI-Expanded)

### Articles Published in Other Journals

1. **A Proposed Approach to Evaluate Digital Business Model Selection for SuperApps using Interval Valued Spherical Fuzzy AHP**  
Demircan M. L.  
Academic Platform journal of engineering and smart systems (Online), vol.11, no.2, pp.73-86, 2023 (Peer-Reviewed Journal)
2. **Interval Type-2 Fuzzy Replacement Analysis in Call Center Investment Replacement Decisions**  
Demircan M. L.  
International Journal of Management and Applied Science, vol.2, no.10, pp.130-136, 2016 (Peer-Reviewed Journal)
3. **Impact of Financial Literacy on the Behavioral Biases of Individual Stock Investors: Evidence from Borsa Istanbul**  
ATEŞ S., ÇOŞKUN A., ŞAHİN M. A., DEMİRCAN M. L.  
İşletme ve Ekonomi Araştırmaları Dergisi, vol.7, no.3, pp.1-19, 2016 (Peer-Reviewed Journal)
4. **Fuzzy replacement analysis**  
Kahraman C., DEMİRCAN M. L.  
Studies in Fuzziness and Soft Computing, vol.233, pp.145-157, 2008 (Scopus)
5. **Multi criteria operating system selection using fuzzy replacement analysis and AHP**  
DEMİRCAN M. L., TOLGA E., KAHRAMAN C.  
İTÜ Dergisi Seri D: Mühendislik, vol.5, no.1/1 1/2, pp.205-216, 2006 (Peer-Reviewed Journal)

### Books & Book Chapters

1. **Türkiye’de Finansal Okuryazarlık Üst Yönetim Üzerinde Ampirik Bir Çalışma**  
DEMİRCAN M. L.  
in: Finansal Okuryazarlık Araştırmaları, Gündoğdu, Aysel, Editor, Gazi Kitabevi, Ankara, pp.287-298, 2022
2. **Fuzzy Replacement Analysis**  
KAHRAMAN C., DEMİRCAN M. L.  
in: Fuzzy Engineering Economics with Applications, Cengiz Kahraman, Editor, Springer, Berlin, Heidelberg, Berlin, pp.145-157, 2008

## Refereed Congress / Symposium Publications in Proceedings

- 1. A Proposed Evaluation Framework of Artificial Intelligence's Business Effects on Sustainability from a Micro-enterprise Organizational Structure Type Perspective Using Fuzzy Intuitionistic Extensions**  
DEMİRCAN M. L., Ertan İ. C.  
International Conference on Intelligent and Fuzzy Systems, INFUS 2024, Çanakkale, Turkey, 16 - 18 July 2024, vol.1088 LNNS, pp.575-583
- 2. A Study on Detecting Prioritized Employee Engagement Areas Affecting Corporate Culture Sustainability from the Generation-Z Workforce Perspective Using Intuitionistic Fuzzy Set Extensions**  
DEMİRCAN M. L., Ersoy M. M.  
International Conference on Intelligent and Fuzzy Systems, INFUS 2024, Çanakkale, Turkey, 16 - 18 July 2024, vol.1088 LNNS, pp.559-566
- 3. A Proposed Method for Aircraft Selection Using Inter-valued Spherical Fuzzy AHP**  
DEMİRCAN M. L., Kaplan T.  
Intelligent and Fuzzy Systems - Intelligence and Sustainable Future Proceedings of the INFUS 2023 Conference, İstanbul, Turkey, 22 - 24 August 2023, vol.759 LNNS, pp.426-437
- 4. Analysis of Various Portfolio Allocation Decision-Making Techniques in Crypto Assets Using Fuzzy Sets**  
DEMİRCAN M. L., Dirinda T.  
Intelligent and Fuzzy Systems - Intelligence and Sustainable Future Proceedings of the INFUS 2023 Conference, İstanbul, Turkey, 22 - 24 August 2023, vol.758 LNNS, pp.699-707
- 5. Multi-Criteria Decision-Making Method for Supplier Selection in Transformer Production**  
Balci U., Levent Demircan M. L.  
9th International Conference on Electrical Engineering, Computer Science and Informatics, EECSI 2022, Jakarta, Indonesia, 6 - 07 October 2022, vol.2022-October, pp.256-263
- 6. Prediction of the Future Success of Candidates Before Recruitment with Machine Learning: A Case Study in the Banking Sector**  
DEMİRCAN M. L., Aksaç K.  
International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.505 LNNS, pp.24-35
- 7. A proposed service level improvement methodology for public transportation using interval type-2 fuzzy EDAS based on customer satisfaction data**  
DEMİRCAN M. L., Tunc S.  
International Conference on Intelligent and Fuzzy Systems, INFUS 2019, İstanbul, Turkey, 23 - 25 July 2019, vol.1029, pp.1351-1359

## Academic and Administrative Experience

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2021 - Continues **Director of the Center**

Galatasaray University, Mühendislik Ve Teknoloji Fakültesi,  
Entrepreneurship and Innovation Center

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## Advising Theses

Demircan M. L., Research of supplier selection in transformer production and their effects on performance, Postgraduate, U.BALCI(Student), 2022

Demircan M. L., Prediction of the future success of candidates before recruitment with machine learning: A case study in the banking sector, Postgraduate, K.AKSAÇ(Student), 2022

Demircan M. L., Warehouse location selection for 3PL cold chain suppliers in gulf countries using neutrosophic fuzzy

EDAS, Postgraduate, B.ÖZCAN(Student), 2020

Demircan M. L., L'application des methodes de prise de decision multi criteres flous au probleme de selection de la location de banque, Postgraduate, N.ÇINAR(Student), 2019

Demircan M. L., Decision making methodology for software development outsourcing, Postgraduate, A.ACARBAY(Student), 2019

DEMİRCAN M. L., A marketing approach to SERVQUAL-measuring service quality impact in automobile aftersales based on structural equation modeling, Postgraduate, M.NUR(Student), 2018

DEMİRCAN M. L., VENDOR MANAGEMENT INVENTORY SYSTEM : A CASE STUDY FOR A TRADITIONAL FMCG COMPANY, Postgraduate, E.MERDAN(Student), 2018

DEMİRCAN M. L., Performance Evaluation of Urban Public Bus Routes With Data Envelopment Analysis, Postgraduate, S.TUNÇ(Student), 2018

DEMİRCAN M. L., Finansal okuryazarlık ve davranışsal önyargılar: bireysel hisse senedi yatırımcısı üzerine ampirik bir çalışma, Postgraduate, S.ATEŞ(Student), 2014

## Metrics

Publication: 23

Citation (WoS): 252

Citation (Scopus): 390

H-Index (WoS): 3

H-Index (Scopus): 4

## Research Areas

Project Management, Financial Models and Applications, Risk analysis, Technology and Inovation Management, Scenario Analysis, Multi Criteria Decision Making, Decision Support Systems