

TUNCAY GÜRBÜZ

ASSOC. PROF.

Email : tgurbuz@gsu.edu.tr

Office Phone : [+90 212 227 4480](tel:+902122274480) Extension: 1433

International Researcher IDs

ORCID: 0000-0003-4545-5861

Publons / Web Of Science ResearcherID: AAC-9149-2020

ScopusID: 35145824400

Yoksis Researcher ID: 132165



Learning Knowledge

Doctorate
2006 - 2010

Galatasaray University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr),
Turkey

Postgraduate
2000 - 2003

Galatasaray University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli),
Turkey

Undergraduate
1996 - 2000

Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği
Bölümü, Turkey

Foreign Languages

French, C1 Advanced

Dissertations

Doctorate, A multicriteria decision making approach to human resources performance evaluation, Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2010

Postgraduate, Evaluation de performance pour les ressources humaines avec les techniques de decision a multicriteres, Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 2003

Academic Titles / Tasks

Associate Professor
2023 - Continues

Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği

Assistant Professor
2012 - 2023

Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği

Research Assistant
2000 - 2012

Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği

Supported Projects

1. GÜRBÜZ T., KOP NASKALI Y., Project Supported by Higher Education Institutions, KARAR VERMEDE EKSİK VERİLERİN ELE ALINMASI, 2019 - 2022
2. GÜRBÜZ T., ALBAYRAK Y. E., KOP NASKALI Y., Project Supported by Higher Education Institutions, DANS SPORUNDA PERFORMANS DEĞERLENDİRMESİ VE İYİLEŞTİRİLMESİ, 2017 - 2021
3. GÜRBÜZ T., Project Supported by Higher Education Institutions, ASKERİ HAVA SAVUNMA SİSTEMLERİNDE STRATEJİK KARAR ALMA, 2015 - 2017
4. GÜRBÜZ T., Project Supported by Higher Education Institutions, STRATEJİK YÖNETİMDE KARAR DESTEK SİSTEMİ UYGULAMALARI, 2013 - 2014
5. GÜRBÜZ T., Project Supported by Higher Education Institutions, BİLGİ SİSTEMLERİ PERFORMANS DEĞERLENDİRMESİ VE BİLGİ YÖNETİMİNDE STRATEJİ SEÇİMİ, 2011 - 2013

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Decision Making with Fuzzy Incomplete Preference Data: Correct Completion Process and Efficiency of Completed Pairwise Comparison Matrices**
Yazici A., GÜRBÜZ T.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.37, pp.53-76, 2021 (SCI-Expanded)
2. **Human Reliability Assessment in Healthcare Operations Using Fuzzy Cognitive Maps**
Naskali Y. K., GÜRBÜZ T., ALBAYRAK Y. E.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.32, pp.57-86, 2019 (SCI-Expanded)
3. **Target Marketing Strategy Determination for Shopping Malls Using Fuzzy ANP**
Öztayşi B., GÜRBÜZ T., Albayrak E., Kahraman C.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.27, pp.595-623, 2016 (SCI-Expanded)
4. **An engineering approach to human resources performance evaluation: Hybrid MCDM application with interactions**
GÜRBÜZ T., ALBAYRAK Y. E.
APPLIED SOFT COMPUTING, vol.21, pp.365-375, 2014 (SCI-Expanded)
5. **Criteria Weighting and 4P's Planning in Marketing Using a Fuzzy Metric Distance and AHP Hybrid Method**
GÜRBÜZ T., ALBAYRAK Y. E., Alaybeyoglu E.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.7, pp.94-104, 2014 (SCI-Expanded)
6. **A hybrid MCDM methodology for ERP selection problem with interacting criteria**
GÜRBÜZ T., ALPTEKİN S. E., Alptekin G. I.
DECISION SUPPORT SYSTEMS, vol.54, no.1, pp.206-214, 2012 (SCI-Expanded)
7. **Evaluating the Failure Risk Level of an Enterprise Resource Planning Project Using Analytic Network Process in Fuzzy Environment**
KOP NASKALI Y., ULUKAN H. Z., GÜRBÜZ T.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.17, no.4, pp.407-423, 2011 (SCI-Expanded)
8. **A Multi-Criteria Decision Model for Architecting Competence in Human Performance Technology**
Erensal Y. C., GÜRBÜZ T., ALBAYRAK Y. E.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.3, no.6, pp.815-831, 2010 (SCI-Expanded)
9. **Multiple Criteria Human Performance Evaluation Using Choquet Integral**
Gurbuz T.
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.3, no.3, pp.290-300, 2010 (SCI-Expanded)

Articles Published in Other Journals

1. **Entropy-based Constant and Variable Weight Determination for Decision Makers in Multi-Criteria Group Decision Making**
Gürbüz T., Çiçekli S.
Havacılık ve Uzay Teknolojileri Dergisi, vol.17, no.1, pp.52-68, 2024 (Peer-Reviewed Journal)
2. **Threat Evaluation In Air Defense Systems Using Analytic Network Process**
ÜNVER S., GÜRBÜZ T.
JOURNAL OF MILITARY AND STRATEGIC STUDIES, vol.19, no.4, pp.10-39, 2019 (ESCI)
3. **STRATEGY FORMULATION USING A HYBRID MCDM APPROACH FOR STRATEGIC POSITION AND ACTION EVALUATION (SPACE) MATRIX METHOD**
GÜRBÜZ T.
Journal of Aeronautics and Space Technologies, vol.12, no.1, pp.1-17, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Construction of intuitionistic fuzzy cognitive maps for target marketing strategy decisions**
DOĞU E., GÜRBÜZ T., ALBAYRAK Y. E.
in: Advances in Intelligent Systems and Computing, , Editor, Springer Verlag, pp.620-630, 2018

Refereed Congress / Symposium Publications in Proceedings

1. **Review of Sustainable Smart City Assessment Models' KPIs**
Akburak D., GÜRBÜZ T., ALPTEKİN G.
9th IEEE International Smart Cities Conference, ISC2 2023, Bucharest, Romania, 24 - 27 September 2023
2. **Sustainable Supplier Selection in Fuzzy Environment: A Case Study in Turkey**
Cerit I., GÜRBÜZ 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.641-651
3. **Modeling and Evaluation of Sustainable-Agile Criteria in the Automotive Industry**
ALAN G., GÜRBÜZ T.
Ankara International Congress on Scientific Research - VII, Ankara, Turkey, 02 December 2022
4. **A Novel Comprehensive Decision-Making Criteria Weights Proposition Under Fuzzy Preference Judgments for Project Type Selection in the Shipbuilding Industry**
Atalma U., GÜRBÜZ T.
International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.505 LNNS, pp.472-479
5. **The Effect of Seed Value Choice in an Incomplete Fuzzy Preference Relations Guided by Social Influence**
Çiçekli S., GÜRBÜZ T.
International Conference on Intelligent and Fuzzy Systems, INFUS 2022, İzmir, Turkey, 19 - 21 July 2022, vol.505 LNNS, pp.531-539
6. **Entropy Based Weight Assignment Approach in Multi-Criteria Group Decision Making**
ÇİÇEKLİ S., GÜRBÜZ T.
International Academic Conference on Management, Marketing and Economics (MAC-MME 2019), 13 - 15 December 2019, pp.119-125
7. **Decision Making Under Fuzzy Environment with Incomplete Information**
Yazıcı A., GÜRBÜZ T.
Intelligent and Fuzzy Systems - INFUS 2019, 23 - 25 July 2019, pp.737-744
8. **An Integrated Balanced Scorecard and Fuzzy BOCR Decision Model for Performance Evaluation**
Karabece K., GÜRBÜZ T.

Intelligent and Fuzzy Systems - INFUS 2019, 23 - 25 July 2019, pp.843-851

9. **Human Reliability Analysis in Healthcare: A Scenario Analysis**
KOP NASKALÍ Y., GÜRBÜZ T., ALBAYRAK Y. E.
Intelligent and Fuzzy Systems, 23 - 25 July 2019, pp.1380-1388
10. **ANALYSIS OF INTERACTION OF CRITERIA AFFECTING ACOMPETITIVE DANCE COUPLE'S PERFORMANCE INDANCESPORT**
GÜRBÜZ T.
WEI International Academic Conference, 11 - 13 November 2018, pp.266-273
11. **Analysis of Interactions among the Evaluation Criteria in Competitive DanceSport**
GÜRBÜZ T.
8th ESE International Conference on sports, Health and Management, 11 - 13 June 2018, pp.23-28
12. **Construction of Intuitionistic Fuzzy Cognitive Maps for Target Marketing Strategy Decisions**
DOĞU E., GÜRBÜZ T., ALBAYRAK Y. E.
10th Conference of the European-Society-for-Fuzzy-Logic-and-Technology (EUSFLAT) / 16th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets (IWIFSGN), Warszawa, Poland, 11 - 15 September 2017, vol.641, pp.620-630
13. **A Comparative Study on Breast Cancer Risk Factors Assessment**
GÜRBÜZ T., DOĞU E., ALBAYRAK Y. E.
21st Conference of the International Federation of Operational Research Societies (IFORS 2017), Quebec City, Canada, 17 - 21 July 2017
14. **Human Reliability Assessment in Vital Healthcare Operations: Different Scenarios**
KOP NASKALÍ Y., GÜRBÜZ T., ALBAYRAK Y. E.
Industry, Engineering Management Systems Conference - IEMS 2017, 20 - 22 March 2017
15. **Data Supported Decision-Making for Renewable Energy Solutions**
Cay D., Karabece K., GÜRBÜZ T.
World Congress on Engineering and Computer Science, San-Francisco, Costa Rica, 21 - 23 October 2015, pp.477-482
16. **Threat Evaluation Using Analytic Network Process**
Unver S., GÜRBÜZ T.
15th IFAC Symposium on Information Control Problems in Manufacturing, Ottawa, Canada, 11 - 13 May 2015, vol.48, pp.8-13
17. **Comparison of Operational CompetitivenessRating Analysis (OCRA) Performance Evaluation with Operating Margin**
Gbegnin K. E., GÜRBÜZ T.
The World Congress on Engineering and Computer Science 2014 (WCECS 2014), 22 - 24 October 2014
18. **A Social Choice Function Proposal to Aggregate Preferences in a Group Decision Making Process**
Gurbuz T.
World Congress on Engineering and Computer Science, San-Francisco, Costa Rica, 23 - 25 October 2013, pp.1206-1210
19. **Marketing Strategy Selection in New Product Development using Fuzzy Linear Programming**
DOĞU E., ALBAYRAK Y. E., GÜRBÜZ T.
6th International Colloquium on Business Management (ICBM), Bangkok, Thailand, 19 - 22 August 2013
20. **Criteria Weighing and 4 P Planning in Marketing Using A Fuzzy Metric Distance and AHP Hybrid Method**
GÜRBÜZ T., ALBAYRAK Y. E., DOĞU E.
10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making (FLINS 2012), İstanbul, Turkey, 27 August 2012
21. **Criteria Weighting and 4-P Planning in Marketing Using Analytic Network Process**
Alaybeyoglu E., ALBAYRAK Y. E., GÜRBÜZ T.
International MultiConference of Engineers and Computer Scientists (IMECS 2012), Hong Kong, PEOPLES R CHINA, 14 - 16 March 2012, pp.1240-1243

22. **CRITERIA WEIGHING AND 4P'S PLANNING IN MARKETING USING A FUZZY METRIC DISTANCE AND AHP HYBRID METHOD**
GÜRBÜZ T., ALBAYRAK Y. E., Alaybeyoglu E.
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.255-260
23. **Yeni Ürün Geliştirme Sürecinde Pazarlama Stratejisi Seçimi Hibrid Çok Kriterli Karar Verme Modeli Önerisi**
DOĞU E., ALBAYRAK Y. E., GÜRBÜZ T.
Yöneylem Araştırması ve Endüstri Mühendisliği 31. Ulusal Kongresi, Sakarya, Turkey, 5 - 07 July 2011, pp.180
24. **AN ANP & FUZZY INTEGRAL HYBRID MODEL FOR MULTI-CRITERIA GROUP DECISION MAKING: AN APPLICATION TO KNOWLEDGE MANAGEMENT**
GÜRBÜZ T., ALBAYRAK Y. E.
9th International FLINS Conference on Computational Intelligence: Foundations and Applications, Emei, PEOPLES R CHINA, 2 - 04 August 2010, vol.4, pp.471-477
25. **FUZZY TOPSIS APPLICATION IN EVALUATING WASTE PAPER COLLECTION METHODS**
KOP NASKALI Y., ULUKAN H. Z., GÜRBÜZ T.
4th International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2009), Hasselt, Belgium, 27 - 28 November 2009, vol.2, pp.100-101
26. **MANAGING RISK FACTORS IN ECO-PRODUCT DESIGN FOR EEE**
Genevois M. E., BEREKETLİ ZAFEIRAKOPOULOS İ., GÜRBÜZ T.
2nd International Conference on Risk Analysis and Crisis Response, Beijing, China, 19 - 21 October 2009, pp.180-185
27. **Evaluating the Failure Risk Level of An sap Project Using ANP in Fuzzy Environment**
ULUKAN H. Z., KOP NASKALI Y., GÜRBÜZ T.
2nd International Conference on Risk Analysis and Crisis Response, Beijing, China, 19 - 21 October 2009, pp.205-210
28. **A Fuzzy Multi-Criteria Approach to WEEE Treatment Strategy Selection**
BEREKETLİ ZAFEIRAKOPOULOS İ., GÜRBÜZ T., Genevois M. E.
Joint World Congress of International-Fuzzy-Systems-Association (IFSA)/European Conference of European-Society-for-Fuzzy-Logic-and-Technology (EUSFLAT), Lisbon, Portugal, 20 - 24 July 2009, pp.1439-1443
29. **Finding the Best Flexibility Strategies by Using an Integrated Method of FAHP and QFD**
Genevois M. E., GÜRBÜZ T.
Joint World Congress of International-Fuzzy-Systems-Association (IFSA)/European Conference of European-Society-for-Fuzzy-Logic-and-Technology (EUSFLAT), Lisbon, Portugal, 20 - 24 July 2009, pp.1126-1131
30. **An Analytic Network Process Approach To The Planning And Managing Of The Energy Politics**
GÜRBÜZ T., ALBAYRAK Y. E., Erensal Y. C., Ozyol M.
International Conference on Computers and Industrial Engineering (CIE39), Troyes, France, 6 - 09 July 2009, pp.1690-1691

Academic and Administrative Experience

	Erasmus Program	
2016 - Continues	Institutional	Galatasaray Üniversitesi, Mühendislik ve Teknoloji Fakültesi, Endüstri
	Coordinator	Mühendisliği Bölümü

Courses

Introduction to Multi-Criteria Decision Making, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020,

2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Risk Analysis and Management, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Engineering Economy, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Strategic Management Approaches, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Directed Research, Doctorate, 2022 - 2023, 2020 - 2021, 2018 - 2019
Multi-Criteria Decision Making, Postgraduate, 2022 - 2023, 2021 - 2022
Operations Management, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Innovation and Technology Management, Postgraduate, 2022 - 2023
Strategic Management, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Technology Management, Undergraduate, 2020 - 2021
Directed Research, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015
Applied Management Strategy, Undergraduate, 2020 - 2021, 2019 - 2020
Graduate Seminar, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Multi-Criteria Decision Making and Its Application in Logistics, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2014 - 2015, 2013 - 2014
Decision Making, Postgraduate, 2020 - 2021
Technology Management, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Engineering Economics, Postgraduate, 2016 - 2017, 2015 - 2016
Introduction To Engineering Management, Postgraduate, 2016 - 2017, 2015 - 2016

Advising Theses

Gürbüz T., SUPPLIER SELECTION WITH AN AGILE-SUSTAINABLE APPROACH IN THE AUTOMOTIVE INDUSTRY, Postgraduate, G.ALAN(Student), 2023
Gürbüz T., Predicting icu requirements of covid-19 patients using artificial neural network, Postgraduate, Y.ÇOTOY(Student), 2022
Gürbüz T., A fuzzy quality function deployment based approach to quality management maturity measurement, Postgraduate, S.KAYA(Student), 2022
Gürbüz T., Kriz dönemlerinde (pandemi sürecinde) e-yönetim ve fonksiyonları, Postgraduate, A.BARIŞ(Student), 2021
Gürbüz T., Analysis of banking customers' habits and behaviours in the COVID-19 pandemic period, Postgraduate, İ.YAVUZ(Student), 2021
Gürbüz T., Innovative features in instant messaging applications, Postgraduate, H.TANRIVERDİ(Student), 2021
Gürbüz T., Entropy based weight assignment approach in multi-criteria group decision making, Postgraduate, S.ÇİÇEKLİ(Student), 2020
GÜRBÜZ T., Decision making with incomplete information on preferences, Postgraduate, A.YAZICI(Student), 2019
ALBAYRAK Y. E., GÜRBÜZ T., RELIABILITY ANALYSIS OF A COMPLEX SYSTEM UNDER UNCERTAINTY AND FAILURE EVENT DEPENDENCY, Doctorate, Y.KOP(Student), 2019
Gürbüz T., Fuzzy extensions and application on decision making, Postgraduate, A.YAZICI(Student), 2019
Gürbüz T., Multi criteria decision making approaches in a new destination selection for airlines, Postgraduate, F.ÖZDEMİR(Student), 2019
Gürbüz T., Decision making approaches for performance evaluation, Postgraduate, K.KARABECE(Student), 2019
Gürbüz T., Performans Değerlendirme için Karar Verme Yaklaşımları, Postgraduate, K.KARABECE(Student), 2019
GÜRBÜZ T., Alternating least squares model recommender systems: An application on credit card market, Postgraduate, İ.KÖRPE(Student), 2017

GÜRBÜZ T., Threat evaluation in air defense systems using analytic network process, Postgraduate, S.ÜNVER(Student), 2015

GÜRBÜZ T., Evaluation multicritere de performance des societes de logistique par la methode OCRA, Postgraduate, G.KOLETO(Student), 2014

Scientific Refereeing

APPLIED SOFT COMPUTING JOURNAL, Journal Indexed in SCI-E, October 2020

APPLIED SOFT COMPUTING JOURNAL, Journal Indexed in SCI-E, June 2020

DECISION SUPPORT SYSTEMS, Journal Indexed in SCI-E, July 2017

DECISION SUPPORT SYSTEMS, Journal Indexed in SCI-E, December 2016

DECISION SUPPORT SYSTEMS, Journal Indexed in SCI-E, February 2015

APPLIED SOFT COMPUTING JOURNAL, Journal Indexed in SCI-E, October 2014

DECISION SUPPORT SYSTEMS, Journal Indexed in SCI-E, July 2014

DECISION SUPPORT SYSTEMS, Journal Indexed in SCI-E, September 2013

DECISION SUPPORT SYSTEMS, Journal Indexed in SCI-E, August 2013

DECISION SUPPORT SYSTEMS, Journal Indexed in SCI-E, June 2013

JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, Journal Indexed in SCI-E, December 2012

KNOWLEDGE-BASED SYSTEMS, Journal Indexed in SCI-E, March 2012

KNOWLEDGE-BASED SYSTEMS, Journal Indexed in SCI-E, November 2011

KNOWLEDGE-BASED SYSTEMS, Journal Indexed in SCI-E, September 2011

APPLIED SOFT COMPUTING JOURNAL, Journal Indexed in SCI-E, August 2011

KNOWLEDGE-BASED SYSTEMS, Journal Indexed in SCI-E, May 2011

KNOWLEDGE-BASED SYSTEMS, Journal Indexed in SCI-E, April 2011

INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, Journal Indexed in SCI-E, October 2010

KNOWLEDGE-BASED SYSTEMS, Journal Indexed in SCI-E, October 2010

KNOWLEDGE-BASED SYSTEMS, Journal Indexed in SCI-E, September 2010

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, Journal Indexed in ESCI, August 2010

JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, Journal Indexed in SCI-E, January 2010

FUZZY OPTIMIZATION AND DECISION MAKING, Journal Indexed in SCI-E, September 2009

Metrics

Publication: 44

Citation (WoS): 155

Citation (Scopus): 184

H-Index (WoS): 5

H-Index (Scopus): 5

Research Areas

Industrial Engineering , Strategic planning, Decision Theory, Multi Criteria Decision Making, Decision Support Systems, Engineering and Technology