

Assoc. Prof. Tufan DEMİREL

Personal Information

Office Phone: [+90 212 383 2867](tel:+902123832867)

Fax Phone: [+90 212 383 2867](tel:+902123832867)

Email: tdemirel@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/tdemirel>

International Researcher IDs

ScholarID: DAXsKuQAAAAJ

ORCID: 0000-0003-3051-5067

Publons / Web Of Science ResearcherID: ABA-2816-2020

ScopusID: 18133594700

Yoksis Researcher ID: 174758

Dissertations

Doctorate, Yapay zeka ile bütünleşik simülasyon ortamları ve bir kavşaktaki trafik ışıklarının analizi için zeki bir simülasyon ortamının tasarlanması, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 1999
Postgraduate, Simülasyon amaçlı uzman sistemler ve kuyruk modellerinin simülasyonu için bir uzman sistem tasarımı, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 1993

Research Areas

Industrial Engineering , Optimization Theory and Methods, Linear Programming, Heuristic Methods, Decision Theory, Multi Criteria Decision Making, Engineering and Technology

Advising Theses

DEMİREL T., Araç Rotalama Modeli İle Çok Boyutlu Gözlemlerin Gruplandırılması: Bir Öğrenci Yurdunda Öğrencilerin Kişilik Envanteri Benzerliklerine Göre Odalara Atanması, Postgraduate, S.Fatih(Student), 2017
DEMİREL T., Kümeleme Analizi İle Bütünleşik Bulanık Topsıs Ve Bulanık Vikor Yöntemlerine Dayanarak Hastane Kuruluş Yer Seçimi, Postgraduate, Ç.Özgür(Student), 2017
DEMİREL T., Toptan satış marketlerinde meydana gelen iş kazalarının uluslararası düzeyde karşılaştırmalı analizi, Postgraduate, N.İslam(Student), 2017
DEMİREL T., Sivil havacılıkta uçucu ekip çizelgelemesi, Postgraduate, G.KORKMAZ(Student), 2016
DEMİREL T., Belirlenen av sorumluluk sahasında hava savunma görevinin doğrusal olmayan programlama yöntemiyle modellenmesi ve eniylenmesi, Postgraduate, F.ULAŞ(Student), 2016
DEMİREL T., Stigler diyet problemi için yeni bir model önerisi ve genetik algoritma ve memetik algoritma ile çözüm yaklaşımı, Postgraduate, M.Çakrak(Student), 2016
DEMİREL T., Choquet integral ile bulanık grup karar verme, Postgraduate, S.SAYGIN(Student), 2016
DEMİREL T., Tehlikeli Maddelerin Havayoluyla Taşınmasında Çok Kriterli Karar Verme Yöntemi (Choquet Integral) ile alternatif Havalimanı Belirlenmesi, Postgraduate, R.Mukanbay(Student), 2015
DEMİREL T., Bulanık Choquet integrali ve bulanık Vikor yöntemleri ile performans değerlendirme, Postgraduate, E.TAŞKAN(Student), 2012

DEMİREL T., Belirlenen av sorumluluk sahasında hava savunma görevinin doğrusal olmayan programlama yöntemiyle modellenmesi ve eniylenmesi, Postgraduate, F.ULAŞ(Student), 2012

DEMİREL T., Tedarik zinciri yönetiminde optimal depo yeri seçimi, Doctorate, Ö.Nuri(Student), 2011

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Train timetabling for a double-track urban rail transit line under dynamic passenger demand**
Bucak S., DEMİREL T.
Computers and Industrial Engineering, vol.163, 2022 (SCI-Expanded)
- II. **Comparison of machine learning methods in predicting binary and multi-class occupational accident severity**
Recal F., DEMİREL T.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.40, no.6, pp.10981-10998, 2021 (SCI-Expanded)
- III. **Choquet integral-based hesitant fuzzy decision-making to prevent soil erosion**
DEMİREL T., Öner S. C., Tuzun S., Deveci M., Öner M., DEMİREL N. C.
GEODERMA, vol.313, pp.276-289, 2018 (SCI-Expanded)
- IV. **Location selection for underground natural gas storage using Choquet integral**
DEMİREL N. C., DEMİREL T., Deveci M., VARDAR G.
JOURNAL OF NATURAL GAS SCIENCE AND ENGINEERING, vol.45, pp.368-379, 2017 (SCI-Expanded)
- V. **An Effective Extension of Fuzzy TOPSIS Method for Hierarchically Structured Group Decision Making Problems**
Özkr V., Demirel T.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.26, pp.295-314, 2016 (SCI-Expanded)
- VI. **A three-stage methodology for initiating an effective management system for electronic waste in Turkey**
Ozkr V., Efendigil T., Demirel T., Demirel N. C., Deveci M., Topcu B.
RESOURCES CONSERVATION AND RECYCLING, vol.96, pp.61-70, 2015 (SCI-Expanded)
- VII. **A fuzzy assessment framework to select among transportation investment projects in Turkey**
ÖZKIR V., DEMİREL T.
EXPERT SYSTEMS WITH APPLICATIONS, vol.39, no.1, pp.74-80, 2012 (SCI-Expanded)
- VIII. **A New Solution Approach To Multi-Depot Vehicle Routing Problem With Ant Colony Optimization**
DEMİREL T., Yilmaz S.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.18, pp.421-439, 2012 (SCI-Expanded)
- IX. **Risk-Based Evaluation of Turkish Agricultural Strategies using Fuzzy AHP and Fuzzy ANP**
Demirel N., YUCENUR G. N., DEMİREL T., Musdal H.
HUMAN AND ECOLOGICAL RISK ASSESSMENT, vol.18, no.3, pp.685-702, 2012 (SCI-Expanded)
- X. **Multi-criteria warehouse location selection using Choquet integral**
DEMİREL T., Demirel N. C., Kahraman C.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.5, pp.3943-3952, 2010 (SCI-Expanded)
- XI. **Multi-Criteria Evaluation of Land Cover Policies Using Fuzzy AHP and Fuzzy ANP: The Case of Turkey**
DEMİREL T., Musdal H., Demirel N. C., YUCENUR G. N.
HUMAN AND ECOLOGICAL RISK ASSESSMENT, vol.15, no.4, pp.746-764, 2009 (SCI-Expanded)
- XII. **Time dependent vehicle routing problem with fuzzy traveling times under different traffic conditions**
DEMİREL T., DEMİREL N. C., TASDELEN B.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.14, pp.387-400, 2008 (SCI-Expanded)
- XIII. **Prioritization of e-Government strategies using a SWOT-AHP analysis: the case of Turkey**
Kahraman C., Demirel N., Demirel T.
EUROPEAN JOURNAL OF INFORMATION SYSTEMS, vol.16, no.3, pp.284-298, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Designing a Balanced Scorecard Framework for Public Transport Organizations: The Case of IETT**
DEVECİ M., Cantez F., ÇETİN DEMİREL N., DEMİREL T.
Journal of Economic and Social Development (JESD), vol.5, no.2, pp.91-99, 2018 (Peer-Reviewed Journal)
- II. **Prioritization of Tourism Strategies in Turkey Using a SWOT-AHP Analysis**
Özdemir Y., DEMİREL T.
International Journal of Business and Industrial Marketing, vol.3, no.2, pp.34-45, 2018 (Peer-Reviewed Journal)
- III. **ANALYZING AND COMPARING THE DISTRICTS OF ISTANBUL USING TOPSIS**
DEMİREL T., TÜZÜN S.
International Journal of Arts Sciences, vol.9, pp.339-348, 2016 (Peer-Reviewed Journal)
- IV. **PRIORITIZATION OF THE POLICIES FOR CONTROLLING RURAL URBAN MIGRATION IN TURKEY USING CHOQUET INTEGRAL**
TÜZÜN S., DEMİREL T.
International Journal of Arts & Sciences, vol.8, pp.115-124, 2015 (Peer-Reviewed Journal)
- V. **Optimal Dağıtım Merkezi Stratejisi Tespiti için Çok Aşamalı Tedarik Zinciri Ağ Modeli**
DEMİREL T.
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.29, no.3, pp.329-339, 2011 (Peer-Reviewed Journal)
- VI. **Türkiye Ekonomisinde Stratejik Politika Seçimi için SWOT Analizi ile Entegre Edilmiş Bulanık AHP/Bulanık ANP**
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Sigma Mühendislik ve Bilim Dergisi, vol.28, no.4, pp.275-286, 2010 (Peer-Reviewed Journal)
- VII. **Trafik Problemlerinin Çözümünde ve Trafik Yönetim Sistemlerinde Yapay Zeka Yaklaşımlarının Kullanılması**
DEMİREL T.
Trafik, vol.2, no.2, pp.8-10, 2004 (Non Peer-Reviewed Journal)
- VIII. **Designing of an artificial intelligence based simulation system**
ERDEM H. I., DEMİREL T., GUNAY F., ÖNÜT S.
Advances in Modelling & Analysis C: Systems Analysis, Control & Design, vol.42, pp.53-63, 1994 (Scopus)

Books & Book Chapters

- I. **Effects of Inflation under Fuzziness and Some Applications**
Kahraman C., DEMİREL T., ÇETİN DEMİREL N.
in: Fuzzy Engineering Economics with Applications, Kahraman,C., Editor, Springer-Verlag , Chennai, pp.173-182, 2008
- II. **A SWOT-AHP Application Using Fuzzy Concept:E-Government in Turkey**
Kahraman C., ÇETİN DEMİREL N., DEMİREL T., Ateş N.
in: Fuzzy Multi-Criteria Decision Making, Kahraman,C., Editor, Springer-Verlag , New York, pp.85-117, 2008
- III. **Fuzzy Analytic Hierarchy Process and Its Application**
DEMİREL T., ÇETİN DEMİREL N., Kahraman C.
in: Fuzzy Multi-Criteria Decision Making, Kahraman,C., Editor, Springer-Verlag , New York, pp.53-83, 2008

Refereed Congress / Symposium Publications in Proceedings

- I. **An Information-Based Approach for Preference Method in Multi-Attribute Decision Making**
TÜZÜN S., DEMİREL T.
ICCCM 2017 : 19th International Conference on Climate Dynamics and Climate Modeling Amsterdam, The Netherlands June 18 - 19, 2017, 18 - 19 June 2017

- II. **Survey results of E-Waste Quantity and recycling strategy development: the case of Istanbul**
DEMİREL T., TOPCU B., DEVECİ M., ÇETİN DEMİREL N., EFENDİGİL T., ÖZKİR V.
YA/EM 2013, İstanbul, Turkey, 07 July 2013
- III. **Developing a Strategy for Collection and Recycling of E-Waste in Turkey**
Özkar V., Efendigil T., Çetin Demirel N., DEMİREL T., Deveci M.
26th European Conference on Operational Research, 01 July 2013
- IV. **Multi-criteria evaluation to prioritize the organic farm site using extended Vikor method**
DEMİREL T., Tüzün S., ÖZKİR V.
14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012, Catania, Italy, 9 - 13 July 2012, pp.432-440
- V. **Evaluation of Urban Regeneration Strategies Using VIKOR Method: The Case of Istanbul-District**
ÇETİN DEMİREL N., Kaya Ö., DEMİREL T.
10th International FLINS Conference, İstanbul, Turkey, 26 August 2012, pp.261-266
- VI. **Weighting the Criteria of Green Supply Chain Management for Supplier Selection in Automotive Industry Using Fuzzy ANP**
DEMİREL T.
10th International FLINS Conference, 01 August 2012
- VII. **Bulanık AAS Kullanılarak Türkiye'de Yetiştirilen Organik Tarım Ürünlerinin Çok Kriterli Değerlendirme ile Önceliklendirilmesi**
DEMİREL T.
Yöneylem Araştırması ve Endüstri Mühendisliği 32.Ulusal Kongresi YAEM 2012, 01 June 2012
- VIII. **A FRAMEWORK PROPOSAL UPON THE ESTIMATION OF ELECTRONIC-WASTE PRODUCTS IN ISTANBUL**
EFENDİGİL T., ÖZKİR V., Demirel N. C., DEMİREL T., Ondemir O.
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.1184-1189
- IX. **A COMPREHENSIVE ANALYSIS FOR THE METRICS OF SUPPLYCHAIN DESIGN STRATEGIES**
ÖZKİR V., DEMİREL T.
the 15th International Research/Expert Conference on Trends in the Development of Machinery and Associated Technology, Prague, 12 - 18 September 2011, pp.353-356
- X. **Multiple Criteria Evaluation of Sustainable Agriculture Strategies Using Fuzzy ANP: The Case of Turkey**
DEMİREL T.
The 16th Annual International Conference on Industrial Engineering Theory, Applications and Practice, 20-23 Eylül Stuttgart Almanya, 01 September 2011
- XI. **Multi Criteria Evaluation of the Methods for Preventing Soil Erosion Using Fuzzy ANP:The Case of Turkey**
DEMİREL T.
WCE 2011 World Congress on Engineering 2011, 01 July 2011
- XII. **A Genetic Algorithm Approach for Minimizing Total Tardiness in Parallel Machine Scheduling Problems**
DEMİREL T., ÖZKİR V., Demirel N. C., TASDELEN B.
World Congress on Engineering (WCE 2011), London, Canada, 6 - 08 July 2011, pp.1190-1193
- XIII. **Multi-Criteria Solar Energy Plant Location Selection Using Fuzzy ANP**
DEMİREL T.
9th International FLINS Conference, Computational Intelligence Foundations and Applications, 01 August 2010
- XIV. **Prioritization of Tourism Types Using Fuzzy Analytic Network Process**
DEMİREL T.
4th International ISKE Conference Intelligent Decision Making Systems,, 01 October 2009
- XV. **Prioritization of Tourism Types Using Fuzzy Analytic Network Process Approach,**
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- XVI. **Multi-criteria wind power plant location selection using fuzzy analytic hierarchy process**
DEMİREL T.
The 8th International FLINS Conference on Computational Intelligence in Decision and Control, 01 September 2008
- XVII. **Multi-Criteria Evaluation of land Cover Policies Using Fuzzy AHP: The Case of Turkey**
DEMİREL T.
1th International Conference on Risk Analysis and Crisis Response - RACR2007, 01 September 2007
- XVIII. **An Efficient Appointment System Design for Outpatient Clinic Using Computer Simulation**
Erdem İ., Demirel T., Önüt S.
SCS 2002, Summer Computer Simulation Conference, San Diego, California, USA, California, United States Of America, 01 August 2002
- XIX. **The Artificial Intelligence Approach to the Analysis of Simulation Output: A Design for the Intelligent Output Analysis Module**
Demirel T., Çetin Demirel N., Önüt S.
International Conference On Artificial Intelligence, ICAI'99, International Association For the Advancement of Methods For System Analysis And Design, IAAMSAD, Durban, South Africa, 01 December 1999, pp.190-193
- XX. **A Simulation Based Planning Approach to a Hospital System Design**
Demirel T., Önüt S., Erdem İ.
The Society for Computer Simulation International, SCS 1999, Summer Computer Simulation Conference, Chicago, USA, Illinois, United States Of America, 01 July 1999, pp.1-15
- XXI. **Expert System Approach to Selection of a Conveyor System**
Önüt S., Demirel T., Erdem İ.
CCM98, International Conference on Contribution of Modeling, Lyon-France, Lyon, France, 01 January 1998, pp.25-28
- XXII. **Bir Hastane Sisteminin Performans Ölçülerinin Ortaya Çıkarılmasında Simülasyon Uygulaması**
Önüt S., Demirel T., Günay F. G., Erdem İ.
Uluslararası Bilgisayar Uygulamaları Sempozyumu, Konya, Turkey, Konya, Turkey, 05 July 1993, pp.121-132
- XXIII. **Tek Ürünlü Montaj Hattı Simülasyonunda Bilgisayar Destekli Animasyon**
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- XXIV. **Bilgisayar Destekli Parça Tasarımı ve Programlanması için Bir Sistem Tasarımı**
Günay F. G., Önüt S., Erdem İ., Demirel T., Gülsün B.
YA/EM'93, XV.Ulusal Kongresi, İstanbul, İstanbul, Turkey, 01 July 1993, pp.1-5
- XXV. **A Decision Making System for Facilities Layout**
Erdem İ., Demirel T., Önüt S., Günay F. G.
2nd Balkan Conference On Operational Research, Athens, Greece, 09 May 1993

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