

Doç.Dr. İrem Uçal Sarı

Kişisel Bilgiler

E-posta: ucal@itu.edu.tr

Web: <https://avesis.itu.edu.tr/ucal>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0001-9525-2363

Publons / Web Of Science ResearcherID: E-6691-2014

ScopusID: 56951291900

Yoksis Araştırmacı ID: 202098

Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Türkiye 2008 - 2012

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mühendislik Yönetimi (YL) (Tezli), Türkiye 2005 - 2008

Lisans, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Türkiye 1999 - 2004

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, Yatırım analizlerinde bulanık model önerileri, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2012

Yüksek Lisans, Bulanık reel opsiyonlarla riskli yatırım projelerinin analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mühendislik Yönetimi (YL) (Tezli), 2008

Araştırma Alanları

Sosyal ve Beşeri Bilimler, İşletme, Sayısal Yöntemler, Endüstri Mühendisliği, Eniyileme Kuramı ve Yöntemleri, Doğrusal Programlama, Mühendislik Ekonomisi, Finansal Modeller ve Uygulamaları, Risk Analizi, Karar Kuramı, Çok Kriterli Karar Verme, Karar Destek Sistemleri, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Teknik Üniversitesi, İşletme, Endüstri Mühendisliği, 2017 - Devam Ediyor

Öğretim Görevlisi Dr., İstanbul Teknik Üniversitesi, İşletme, Endüstri Mühendisliği, 2013 - 2017

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, İşletme, Endüstri Mühendisliği, 2006 - 2013

Verdiği Dersler

Malzeme Yönetimi, Lisans, 2020 - 2021
Yöneylem Araştırmasına Giriş, Lisans, 2021 - 2022, 2020 - 2021
Mühendislik Ekonomisi, Lisans, 2020 - 2021
Yapılabilirlik Analizi, Lisans, 2021 - 2022, 2020 - 2021
Mühendislik Ekonomisi, Lisans, 2020 - 2021
Mühendislik Ekonomisi, Lisans, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Malzeme Yönetimi, Lisans, 2019 - 2020, 2018 - 2019
Mühendislik Ekonomisi, Lisans, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Yöneylem Araştırmasına Giriş, Lisans, 2019 - 2020, 2018 - 2019
Endüstri Mühendisliğine Giriş, Lisans, 2019 - 2020, 2018 - 2019
Fiyatlandırma ve Gelir Yönetimi, Lisans, 2018 - 2019
Engineering Economy, Lisans, 2017 - 2018
Yapılabilirlik Analizi, Lisans, 2018 - 2019
Mühendislikte Proje Yönetimi, Lisans, 2017 - 2018
Yöneylem Araştırmasına Giriş, Lisans, 2017 - 2018, 2014 - 2015
İstatistik, Lisans, 2016 - 2017
Yöneylem Araştırması, Lisans, 2014 - 2015
Yöneylem Araştırmasına Giriş, Lisans, 2015 - 2016, 2014 - 2015
Tesis Planlama ve Yerleştirme, Lisans, 2014 - 2015, 2013 - 2014
Maliyet Muhasebesi, Lisans, 2015 - 2016, 2014 - 2015
Üretim ve Stok Kontrol, Lisans, 2013 - 2014
Yönetim Muhasebesi, Lisans, 2013 - 2014
Human Factors in Product Design, Lisans, 2013 - 2014
Yöneylem Araştırması, Lisans, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **COVID-19 Risk Assessment of Occupations Using Interval Type 2 Fuzzy Z-AHP & TOPSIS Methodology**
Uçal Sarı İ., Tuysuz N.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, cilt.38, sa.5-6, ss.575-602, 2022 (SCI-Expanded)
- II. **Extension of capital budgeting techniques using interval-valued Fermatean fuzzy sets**
Sergi D., Uçal Sarı İ., Senapati T.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, cilt.42, sa.1, ss.365-376, 2022 (SCI-Expanded)
- III. **Prioritization of public services for digitalization using fuzzy Z-AHP and fuzzy Z-WASPAS**
Sergi D., Uçal Sarı İ.
COMPLEX & INTELLIGENT SYSTEMS, cilt.7, ss.841-856, 2021 (SCI-Expanded)
- IV. **Analysis of a new business model to fundraise non-governmental organizations using fuzzy cognitive maps**
Uçal Sarı İ., Sergi D., Aytore C.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, cilt.39, sa.5, ss.6231-6243, 2020 (SCI-Expanded)
- V. **DEVELOPMENT OF AN INTEGRATED DISCOUNTING STRATEGY BASED ON VENDORS' EXPECTATIONS USING FAHP AND FUZZY GOAL PROGRAMMING**
Uçal Sarı İ.
TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY, cilt.24, sa.2, ss.635-652, 2018 (SSCI)
- VI. **A Performance Measurement Model Minimizing Housekeeping Personnel Costs**
Sarı I. U.
INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, cilt.19, sa.3, ss.776-787, 2017 (SCI-Expanded)
- VII. **Project scheduling maximizing the fuzzy net present value influenced by the decision maker attitude**
Uçal Sarı İ., DOROTA K.

- JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, cilt.25, ss.147-168, 2015 (SCI-Expanded)
- VIII. **INTERVAL TYPE 2 FUZZY CAPITAL BUDGETING**
UCAL SARI İ., Kahraman C.
International Journal of Fuzzy Systems, cilt.17, sa.4, ss.635-646, 2015 (SCI-Expanded)
- IX. **Fuzzy analytic hierarchy process with interval type-2 fuzzy sets**
Kahraman C., Öztayşi B., SARI İ., Turanoglu E.
Knowledge-Based Systems, cilt.59, ss.48-57, 2014 (SCI-Expanded)
- X. **Multi-objective Assessment of Warehouse Storage Policies in Logistics and a Fuzzy Information Axiom Approach**
Cevikcan E., Sari İ., Kahraman C.
APPLICATIONS OF MULTI-CRITERIA AND GAME THEORY APPROACHES: MANUFACTURING AND LOGISTICS, ss.57-82, 2014 (SCI-Expanded)
- XI. **Prioritization of Supply Chain Performance Measurement Factors by a Fuzzy Multi-criteria Approach**
Sari İ., Ugurlu S., Kahraman C.
APPLICATIONS OF MULTI-CRITERIA AND GAME THEORY APPROACHES: MANUFACTURING AND LOGISTICS, ss.161-180, 2014 (SCI-Expanded)
- XII. **Fuzzy Capital Budgeting Fuzzy Bailout Payback Period and Fuzzy Accrual Accounting Rate of Return Methods**
Uçal Sari İ., Kuchta D.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, cilt.21, ss.247-268, 2013 (SCI-Expanded)
- XIII. **RISK GOVERNANCE OF URBAN RAIL SYSTEMS USING FUZZY AHP: THE CASE OF ISTANBUL**
Uçal Sari İ., TORUN H., Kahraman C.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, cilt.20, ss.67-79, 2012 (SCI-Expanded)
- XIV. **Risk Governance of Urban Rail Systems Using Fuzzy AHP The Case of Istanbul**
Uçal Sari İ., BEHRET H., KAHRAMAN C.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, cilt.20, ss.67-79, 2012 (SCI-Expanded)
- XV. **Fuzzy Global Sensitivity Analysis of Fuzzy Net Present Value**
Uçal Sari İ.
CONTROL AND CYBERNETICS, cilt.41, sa.2, ss.481-496, 2012 (SCI-Expanded)
- XVI. **Multicriteria Evaluation of Environmentally Conscious Manufacturers Under Fuzzy Environment**
BEHRET H., Uçal Sari İ., KAHRAMAN C.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, cilt.18, ss.457-477, 2012 (SCI-Expanded)
- XVII. **Fuzzy Real Options Valuation for Oil Investments**
Uçal Sari İ., KAHRAMAN C.
Technological and Economic Development of Economy, cilt.15, sa.4, ss.646-669, 2009 (SSCI)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Real Estate Market Price Prediction Model of Istanbul**
Tekin M., Sari I. U.
Real Estate Management and Valuation, cilt.30, sa.4, ss.1-16, 2022 (Scopus)
- II. **Preface**
Kahraman C., Öztayşi B., ÇEBİ S., Onar S. C., Sari İ., TOLGA A. Ç.
Advances in Intelligent Systems and Computing, cilt.1197 AISC, 2021 (ESCI)
- III. **Fuzzy rule based demand forecasting and an application on fast moving consumer industry**
Çayır Ervural B., Uçal Sari İ., Kocyigit B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, cilt.24, sa.1, ss.83-93, 2018 (ESCI)

- IV. **Wind Energy Investment Analyses Based on Fuzzy Sets**
Kahraman C., Çevik Onar S., Öztayşi B., Uçal Sarı İ., İlbahar E.
ENERGY MANAGEMENT-COLLECTIVE AND COMPUTATIONAL INTELLIGENCE WITH THEORY AND APPLICATIONS, cilt.149, ss.141-166, 2018 (Hakemli Dergi)
- V. **Analyzing criteria used in supplier evaluation by DEMATEL method in sustainable supply chain management and an application to health sector**
Uçal Sarı İ., Çayır Ervural B., Bozat S.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, cilt.23, sa.4, ss.477-485, 2017 (ESCI)
- VI. **Fuzzy Central Tendency Measures**
Kahraman C., Uçal Sarı İ.
Fuzzy Statistical Decision-Making: Theory and Applications, cilt.343, ss.65-83, 2016 (Scopus)
- VII. **Fuzzy Dispersion Measures**
Uçal Sarı İ., Kahraman C., Kabak Ö.
Fuzzy Statistical Decision-Making: Theory and Applications, cilt.343, ss.85-99, 2016 (Scopus)
- VIII. **Strategic Planning for Sustainability in a Start-Up Company: A Case Study on Human Resources Consulting Firm**
Gurel B., Uçal Sarı İ.
EUROPEAN JOURNAL OF SUSTAINABLE DEVELOPMENT, cilt.4, sa.2, ss.313-322, 2015 (ESCI)
- IX. **Performance measurement of a manufacturing company using fuzzy analytical network process**
Öztayşi B., Sarı İ.
International Journal of Applied Management Science, cilt.4, sa.4, ss.439-459, 2012 (Scopus)

Kitap & Kitap Bölümleri

- I. **Examination of Factors Affecting Customer Oriented Product Design in Automotive Industry**
Kadaifci Ç., Uçal Sarı İ.
Customer Oriented Product Design: Intelligent and Fuzzy Techniques, Cengiz Kahraman, Selçuk Cebi, Editör, Springer, London/Berlin, Zug, ss.451-467, 2020
- II. **Feasibility Analysis of Industry 4.0 Projects and an Application in Automotive Maintenance Systems**
UÇAL SARI İ., Cafer E., Ak U.
Agile Approaches for Successfully Managing and Executing Projects in the Fourth Industrial Revolution, Hur Bersam Polat, Gul Tekin Temur, Editör, IGI GLOBAL, ss.346-363, 2019
- III. **Fuzzy Economic Analysis Methods for Environmental Economics**
KAHRAMAN C., UÇAL SARI İ., ÇEVİK ONAR S., ÖZTAYŞI B.
Intelligence Systems in Environmental Management: Theory and Applications, Cengiz Kahraman, İrem Otay, Editör, Springer, ss.315-346, 2018
- IV. **Wind Energy Investment Analyses Based on Fuzzy Sets**
KAHRAMAN C., ÇEVİK ONAR S., ÖZTAYŞI B., UÇAL SARI İ., İLBAHAR E.
Energy Management—Collective and Computational Intelligence with Theory and Applications, Kahraman, C. ve Kayakutlu, G., Editör, Springer International Publishing, ss.141-166, 2018
- V. **Fuzzy economic analysis methods for environmental economics**
KAHRAMAN C., UÇAL SARI İ., ÇEVİK ONAR S., ÖZTAYŞI B.
Intelligent Systems Reference Library, Kahraman, C., Sarı, İ.U., Editör, Springer, ss.315-346, 2017
- VI. **Planning of Efficient Natural Gas Consumption in a Combined Cycle Gas Turbine Power Plant Using Evolutionary Algorithms**
TİNÇ H. K., UÇAL SARI İ.
Intelligence Systems in Environmental Management: Theory and Applications, Kahraman Cengiz, Uçal Sarı İrem, Editör, Springer International Publishing, ss.189-204, 2017
- VII. **Fuzzy Central Tendency Measures**

KAHRAMAN C., UÇAL SARI İ.

Fuzzy Statistical Decision Making, Kahraman, C., Kabak, Ö., Editör, Springer, ss.65-83, 2016

VIII. Fuzzy Dispersion Measures

UÇAL SARI İ., KAHRAMAN C., KABAK Ö.

Fuzzy Statistical Decision Making, Kahraman, C., Kabak, Ö., Editör, Springer, ss.85-99, 2016

IX. Prioritization of Supply Chain Performance Measurement Factors by a Fuzzy Multicriteria Approach

UÇAL SARI İ., UĞURLU S., KAHRAMAN C.

Applications of Multi Criteria and Game Theory Approaches Manufacturing and Logistics, Benyoucef, Lyes, Hennet, Jean-Claude, Tiwari, Manoj Kumar , Editör, Springer, ss.161-180, 2014

X. Forecasting Energy Demand Using Fuzzy Seasonal Time Series

UÇAL SARI İ., ÖZTAYŞI B.

Computational Intelligence Systems in Industrial Engineering, Kahraman Cengiz, Editör, Atlantis Press, ss.251-269, 2014

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Customer Need Analysis for Trim Levels of Automobiles Using Fuzzy Kano Model

Uçal Sarı İ., Sevinc F.

International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Türkiye, 24 - 26 Ağustos 2021, cilt.308, ss.614-621

II. Prioritization of R&D Projects Using Fermatean Fuzzy MARCOS Method

Uçal Sarı İ., Sargın Ş. N.

International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Türkiye, 24 - 26 Ağustos 2021, cilt.308, ss.569-577

III. Fuzzy Capital Budgeting Using Fermatean Fuzzy Sets

Sergi D., Sari İ.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Türkiye, 21 - 23 Temmuz 2020, cilt.1197 AISC, ss.448-456

IV. Intuitionistic Fuzzy Z-numbers

Sari İ., Kahraman C.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Türkiye, 21 - 23 Temmuz 2020, cilt.1197 AISC, ss.1316-1324

V. Fuzzy Evaluation of a New Search Engine Project to Fundraise NGOs

UÇAL SARI İ., SERGİ D., CAN A.

INFUS 2019-International Conference on Intelligent and Fuzzy Systems, 23 - 25 Temmuz 2019

VI. Evaluation of User Preference Criteria on Smart Technologies for Smart Buildings

UÇAL SARI İ., KARLIKAYA D.

INFUS 2019-International Conference on Intelligent and Fuzzy Systems, İstanbul, Türkiye, 23 - 25 Temmuz 2019

VII. Prioritization of Public Services for Digitalization

UÇAL SARI İ., KUCUKALI O.

MCDM 2019-The 25th International Conference on Multiple Criteria Decision Making, 16 - 21 Haziran 2019, ss.125

VIII. ANALYSIS OF RECRUITING PROCESS IN HUMAN RESOURCES FROM CANDIDATES' PERSPECTIVE

UÇAL SARI İ., KARAHAN C.

ICOMEF'17 International Congress of Management Economy and Policy, 17 - 18 Kasım 2017, ss.110-111

IX. DETERMINING STORE CONCEPT IN RETAIL SECTOR WITH USING ANALYTIC NETWORK PROCESS

UÇAL SARI İ., AĞRAH E.

ICOMEF'17 International Congress of Management Economy and Policy, 17 - 18 Kasım 2017, ss.112-113

X. Kimya Endüstrisinde Faaliyet Tabanlı Maliyetleme Sisteminin Uygulanması

UÇAL SARI İ., TURHAN E.

ÜAS 2016- Uluslararası Katılımlı Üretim Araştırmaları Sempozyumu, İstanbul, Türkiye, 12 - 14 Ekim 2016, cilt.1178

- XI. **Determination of Price Discount Ratios for Vendors Based on Their Expectations**
UÇAL SARI İ.
23rd International Conference on Multiple Criteria Decision Making, MCDM 15, Hamburg, Almanya, 2 - 07 Ağustos 2015, ss.143-144
- XII. **Strategic planning for sustainability in a human resources consulting firm**
Burcu G., UÇAL SARI İ.
3rd International Conference on Sustainable Development (ICSD 2015), Roma, İtalya, 2 - 05 Haziran 2015, ss.121
- XIII. **Electricity consumption forecasting using fuzzy time series**
Bolturk E., Öztayşi B., Sari İ.
13th IEEE International Symposium on Computational Intelligence and Informatics, CINTI 2012, Budapest, Macaristan, 20 - 22 Kasım 2012, ss.245-249
- XIV. **New product selection using fuzzy linear programming and fuzzy Monte Carlo simulation**
Uçal Sarı İ., Kahraman C.
14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, IPMU 2012, Catania, İtalya, 9 - 13 Temmuz 2012, cilt.300 CCIS, ss.441-448
- XV. **FUZZY FORECASTING OF INTEREST RATES IN INVESTMENT DECISIONS**
Uçal Sarı İ., Kahraman C.
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Türkiye, 26 - 29 Ağustos 2012, cilt.7, ss.237-242
- XVI. **FUZZY ANALYTIC HIERARCHY PROCESS WITH TYPE-2 FUZZY SETS**
Kahraman C., Uçal Sarı İ., Turanoglu E.
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Türkiye, 26 - 29 Ağustos 2012, cilt.7, ss.201-206
- XVII. **Fuzzy Analytic Hierarchy Process With Type II Fuzzy Sets**
KAHRAMAN C., UÇAL SARI İ., TURANOĞLU BEKAR E.
The 10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making, 26 - 29 Ağustos 2012, ss.201-206
- XVIII. **Multicriteria environmental risk evaluation using type II fuzzy sets**
KAHRAMAN C., UÇAL SARI İ.
14th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2012, 9 - 13 Temmuz 2012, cilt.4, ss.449-457
- XIX. **Project Scheduling to Maximize Fuzzy Net Present Value**
Uçal Sarı İ., Kuchta D.
World Congress on Engineering (WCE 2011), London, Kanada, 6 - 08 Temmuz 2011, ss.1184-1189
- XX. **FUZZY INVESTMENT DECISION MAKING USING MELLIN TRANSFORM**
Uçal Sarı İ., Kahraman C.
9th International FLINS Conference on Computational Intelligence: Foundations and Applications, Emei, PEOPLES R CHINA, 2 - 04 Ağustos 2010, cilt.4, ss.342-347
- XXI. **Comparison of MADM Techniques Usage In Performance Measurement**
Öztayşi B., Uçal Sarı İ.
10th Annual International Symposium on the Analytical Hierarchy Process, Pittsburgh, Amerika Birleşik Devletleri, 29 Temmuz - 01 Ağustos 2009, ss.1
- XXII. **ANP In Performance Measurement And Its Application In A Manufacturing System**
Uçal Sarı İ., Öztayşi B.
10th Annual International Symposium on the Analytical Hierarchy Process, Pittsburgh, Amerika Birleşik Devletleri, 29 Temmuz - 01 Ağustos 2009, ss.1
- XXIII. **Comparing MADM Techniques for Use in Performance Measurement**
ÖZTAYŞI B., UÇAL SARI İ.
10TH ANNUAL INTERNATIONAL SYMPOSIUM ON THE ANALYTICAL HIERARCHY PROCESS, 29 Temmuz - 01 Ağustos 2009
- XXIV. **Fuzzy real options valuation for oil investments**

Kahraman C., Uçal Sarı İ.

8th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science, Madrid, İspanya, 21 - 24 Eylül 2008, cilt.1, ss.1027-1032

XXV. Enhancement of multi-criteria analysis within analytical strategic environmental assessment (ANSEA)

ÇELİK M., ÇEBİ S., UÇAL SARI İ.

IEEE international volume of international engineering management conference, Portekiz, 28 - 30 Haziran 2008

XXVI. Enhancement of Multi-Criteria Analysis within Analytical Strategic Environmental Assessment

Çelik M., ÇEBİ S., Uçal Sarı İ.

IEEE International Engineering Management Conference, Europe, Estoril, Portekiz, 28 - 30 Haziran 2008, ss.157-160

Desteklenen Projeler

Uçal Sarı İ., Yükseköğretim Kurumları Destekli Proje, KİMYA ENDÜSTRİSİNDE FAALİYET TABANLI MALİYETLEME SİSTEMİNİN UYGULANMASI, 2016 - 2018

Uçal Sarı İ., Yükseköğretim Kurumları Destekli Proje, Bayilerin Tercihleri Doğrultusunda Bayiler İçin İskonto Oranlarının Belirlenmesi, 2015 - 2018

Metrikler

Yayın: 77

Atıf (WoS): 249

Atıf (Scopus): 336

H-İndeks (WoS): 4

H-İndeks (Scopus): 7