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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey 2008 - 2012
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Mühendislik Yönetimi (Yl) (Tezli), Turkey 2005 - 2008
Undergraduate, Istanbul Technical University, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1999 - 2004

Foreign Languages

English

Dissertations

Doctorate, Yatırım analizlerinde bulanık model önerileri, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2012
Postgraduate, Bulanık reel opsiyonlarla riskli yatırım projelerinin analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mühendislik Yönetimi (Yl) (Tezli), 2008

Research Areas

Social Sciences and Humanities, Management, Quantitative Methods, Industrial Engineering , Optimization Theory and Methods, Linear Programming, Engineering Economics, Financial Models and Applications, Risk analysis, Decision Theory, Multi Criteria Decision Making, Decision Support Systems, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, İşletme, Endüstri Mühendisliği, 2017 - Continues
Lecturer PhD, Istanbul Technical University, İşletme, Endüstri Mühendisliği, 2013 - 2017
Research Assistant, Istanbul Technical University, İşletme, Endüstri Mühendisliği, 2006 - 2013

Courses

Materials Management, Undergraduate, 2020 - 2021

Introduction to Operations Research, Undergraduate, 2021 - 2022, 2020 - 2021

Engineering Economics, Undergraduate, 2020 - 2021

Feasibility Study, Undergraduate, 2021 - 2022, 2020 - 2021

Engineering Economics, Undergraduate, 2020 - 2021

Engineering Economy, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Materials Management, Undergraduate, 2019 - 2020, 2018 - 2019

Engineering Economy, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

Introduction to Operations Research, Undergraduate, 2019 - 2020, 2018 - 2019

Introduction to Industrial Engineering, Undergraduate, 2019 - 2020, 2018 - 2019

Pricing and Revenue Management, Undergraduate, 2018 - 2019

Engineering Economy, Undergraduate, 2017 - 2018

Feasibility Analysis, Undergraduate, 2018 - 2019

Project Management in Engineering, Undergraduate, 2017 - 2018

Introduction to Operations Research, Undergraduate, 2017 - 2018, 2014 - 2015

Statistics, Undergraduate, 2016 - 2017

Operations Research, Undergraduate, 2014 - 2015

Introduction to Operations Research, Undergraduate, 2015 - 2016, 2014 - 2015

Tesis Planlama ve Yerleştirme, Undergraduate, 2014 - 2015, 2013 - 2014

Cost Accounting, Undergraduate, 2015 - 2016, 2014 - 2015

Üretim ve Stok Kontrol, Undergraduate, 2013 - 2014

Yönetim Muhasebesi, Undergraduate, 2013 - 2014

Human Factors in Product Design, Undergraduate, 2013 - 2014

Yöneylem Araştırması, Undergraduate, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

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, vol.38, no.5-6, pp.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, vol.42, no.1, pp.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, vol.7, pp.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, vol.39, no.5, pp.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, vol.24, no.2, pp.635-652, 2018 (SSCI)

VI. **A Performance Measurement Model Minimizing Housekeeping Personnel Costs**
Sari I. U.
INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, vol.19, no.3, pp.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, vol.25, pp.147-168, 2015 (SCI-Expanded)

VIII. **INTERVAL TYPE 2 FUZZY CAPITAL BUDGETING**
UCAL SARI İ., Kahraman C.
International Journal of Fuzzy Systems, vol.17, no.4, pp.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, vol.59, pp.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, pp.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, pp.161-180, 2014 (SCI-Expanded)

XII. **Fuzzy Capital Budgeting Fuzzy Bailout Payback Period and Fuzzy Accrual Accounting Rate of Return Methods**
Uçal Sarı İ., Kuchta D.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.21, pp.247-268, 2013 (SCI-Expanded)

XIII. **RISK GOVERNANCE OF URBAN RAIL SYSTEMS USING FUZZY AHP: THE CASE OF ISTANBUL**
Uçal Sarı İ., TORUN H., Kahraman C.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, vol.20, pp.67-79, 2012 (SCI-Expanded)

XIV. **Risk Governance of Urban Rail Systems Using Fuzzy AHP The Case of Istanbul**
Uçal Sarı İ., BEHRET H., KAHRAMAN C.
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XV. **Fuzzy Global Sensitivity Analysis of Fuzzy Net Present Value**
Uçal Sarı İ.
CONTROL AND CYBERNETICS, vol.41, no.2, pp.481-496, 2012 (SCI-Expanded)

XVI. **Multicriteria Evaluation of Environmentally Conscious Manufacturers Under Fuzzy Environment**
BEHRET H., Uçal Sarı İ., KAHRAMAN C.
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XVII. **Fuzzy Real Options Valuation for Oil Investments**
Uçal Sarı İ., KAHRAMAN C.
Technological and Economic Development of Economy, vol.15, no.4, pp.646-669, 2009 (SSCI)

Articles Published in Other Journals

I. **Real Estate Market Price Prediction Model of Istanbul**
Tekin M., Sari I. U.
Real Estate Management and Valuation, vol.30, no.4, pp.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, vol.1197 AISC, 2021 (ESCI)

III. **Fuzzy rule based demand forecasting and an application on fast moving consumer industry**
Çayır Ervural B., Uçal Sarı İ., Kocyigit B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.1, pp.83-93, 2018 (ESCI)

IV. **Wind Energy Investment Analyses Based on Fuzzy Sets**
Kahraman C., Çevik Onar S., Öztayşi B., Uçal Sarı İ., Ilbahar E.
ENERGY MANAGEMENT-COLLECTIVE AND COMPUTATIONAL INTELLIGENCE WITH THEORY AND APPLICATIONS,
vol.149, pp.141-166, 2018 (Peer-Reviewed Journal)

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 UNIVERSITESI MUHENDISLIK
BILIMLERI DERGISI, vol.23, no.4, pp.477-485, 2017 (ESCI)

VI. **Fuzzy Central Tendency Measures**
Kahraman C., Uçal Sarı İ.
Fuzzy Statistical Decision-Making: Theory and Applications, vol.343, pp.65-83, 2016 (Scopus)

VII. **Fuzzy Dispersion Measures**
Uçal Sarı İ., Kahraman C., Kabak Ö.
Fuzzy Statistical Decision-Making: Theory and Applications, vol.343, pp.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, vol.4, no.2, pp.313-322, 2015 (ESCI)

IX. **Performance measurement of a manufacturing company using fuzzy analytical network process**
Öztayşi B., Sari İ.
International Journal of Applied Management Science, vol.4, no.4, pp.439-459, 2012 (Scopus)

Books & Book Chapters

I. **Examination of Factors Affecting Customer Oriented Product Design in Automotive Industry**
Kadaifci Ç., Ucal Sari İ.
in: Customer Oriented Product Design: Intelligent and Fuzzy Techniques, Cengiz Kahraman,Selcuk Cebi, Editor,
Springer, London/Berlin , Zug, pp.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.
in: Agile Approaches for Successfully Managing and Executing Projects in the Fourth Industrial Revolution, Hur
Bersam Polat, Gul Tekin Temur, Editor, IGI GLOBAL, pp.346-363, 2019

III. **Fuzzy Economic Analysis Methods for Environmental Economics**
KAHRAMAN C., UÇAL SARI İ., ÇEVİK ONAR S., ÖZTAYŞİ B.
in: Intelligence Systems in Environmental Management: Theory and Applications, Cengiz Kahraman, İrem Otay,
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KAHRAMAN C., ÇEVİK ONAR S., ÖZTAYŞİ B., UÇAL SARI İ., İLBAHAR E.
in: Energy Management—Collective and Computational Intelligence with Theory and Applications, Kahraman, C. ve
Kayakutlu, G., Editor, Springer International Publishing, pp.141-166, 2018

V. **Fuzzy economic analysis methods for environmental economics**
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in: Intelligent Systems Reference Library, Kahraman, C., Sarı, İ.U.,, Editor, Springer, pp.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.
in: Intelligence Systems in Environmental Management: Theory and Applications, Kahraman Cengiz, Uçal Sarı İrem,
Editor, Springer International Publishing, pp.189-204, 2017

VII. **Fuzzy Central Tendency Measures**

KAHRAMAN C., UÇAL SARI İ.

in: Fuzzy Statistical Decision Making, Kahraman, C., Kabak, Ö., Editor, Springer, pp.65-83, 2016

VIII. **Fuzzy Dispersion Measures**

UÇAL SARI İ., KAHRAMAN C., KABAK Ö.

in: Fuzzy Statistical Decision Making, Kahraman,C., Kabak, Ö., Editor, Springer, pp.85-99, 2016

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

UÇAL SARI İ., UĞURLU S., KAHRAMAN C.

in: Applications of Multi Criteria and Game Theory ApproachesManufacturing and Logistics, Benyoucef, Lyes, Hennet, Jean-Claude, Tiwari, Manoj Kumar , Editor, Springer, pp.161-180, 2014

X. **Forecasting Energy Demand Using Fuzzy Seasonal Time Series**

UÇAL SARI İ., ÖZTAYŞİ B.

in: Computational Intelligence Systems in Industrial Engineering, Kahraman Cengiz, Editor, Atlantis Press, pp.251-269, 2014

Refereed Congress / Symposium Publications in Proceedings

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, Turkey, 24 - 26 August 2021, vol.308, pp.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, Turkey, 24 - 26 August 2021, vol.308, pp.569-577

III. **Fuzzy Capital Budgeting Using Fermatean Fuzzy Sets**

Sergi D., Sari İ.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, vol.1197 AISC, pp.448-456

IV. **Intuitionistic Fuzzy Z-numbers**

Sari İ., Kahraman C.

International Conference on Intelligent and Fuzzy Systems, INFUS 2020, İstanbul, Turkey, 21 - 23 July 2020, vol.1197 AISC, pp.1316-1324

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

UÇAL SARI İ., SERGİ D., CAN A.

INFUS 2019-Internatinal Conference on Intelligent and Fuzzy Systems, 23 - 25 July 2019

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

UÇAL SARI İ., KARLIKAYA D.

INFUS 2019-Internatinal Conference on Intelligent and Fuzzy Systems, İstanbul, Turkey, 23 - 25 July 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 June 2019, pp.125

VIII. **ANALYSIS OF RECRUITING PROCESS IN HUMAN RESOURCES FROMCANDIDATES' PERSPECTIVE**

UÇAL SARI İ., Karahan C.

ICOMEP'17 International Congress of Management Economy and Policy, 17 - 18 November 2017, pp.110-111

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

UÇAL SARI İ., Agralı E.

ICOMEP'17 International Congress of Management Economy and Policy, 17 - 18 November 2017, pp.112-113

X. **Kimya Endüstrisinde Faaliyet Tabanlı Maliyetleme Sisteminin Uygulanması**

UÇAL SARI İ., Turhan E.

ÜAS 2016- Uluslararası Katılımlı Üretim Araştırmaları Sempozyumu, İstanbul, Turkey, 12 - 14 October 2016,

vol.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, Germany, 2 - 07 August 2015, pp.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, Italy, 2 - 05 June 2015, pp.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, Hungary, 20 - 22 November 2012, pp.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, Italy, 9 - 13 July 2012, vol.300 CCIS, pp.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, Turkey, 26 - 29 August 2012, vol.7, pp.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, Turkey, 26 - 29 August 2012, vol.7, pp.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 August 2012, pp.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 July 2012, vol.4, pp.449-457

XIX. **Project Scheduling to Maximize Fuzzy Net Present Value**
Uçal Sarı İ., Kuchta D.
World Congress on Engineering (WCE 2011), London, Canada, 6 - 08 July 2011, pp.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 August 2010, vol.4, pp.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, Pittsbugh, United States Of America, 29 July - 01 August 2009, pp.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, United States Of America, 29 July - 01 August 2009, pp.1

XXIII. **Comparing MADM Techniques for Use in Performance Measurement**
ÖZTAYŞİ B., UÇAL SARI İ.
10TH ANNUAL INTERNATIONAL SYMPOSIUM ON THE ANALYTICAL HIERARCHY PROCESS, 29 July - 01 August 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, Spain, 21 - 24 September 2008, vol.1, pp.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, Portugal, 28 - 30 June 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, Portugal, 28 - 30 June 2008, pp.157-160

Supported Projects

Uçal Sarı İ., Project Supported by Higher Education Institutions, KİMYA ENDÜSTRİSİNDE FAALİYET TABANLI MALİYETLEME SİSTEMİNİN UYGULANMASI, 2016 - 2018

Uçal Sarı İ., Project Supported by Higher Education Institutions, Bayilerin Tercihleri Doğrultusunda Bayiler İçin İskonto Oranlarının Belirlenmesi, 2015 - 2018

Metrics

Publication: 77
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