

## Prof. EMEL KIZILKAYA AYDOĞAN

### Personal Information

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### International Researcher IDs

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### Education Information

Post Doctorate, University of Florida, Industrial Engineering, Operational Research, United States Of America 2010 - 2011

Doctorate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey 2004 - 2008

Postgraduate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey 2002 - 2003

### Dissertations

Doctorate, VERİ MADENCİLİĞİNDE SINIFLANDIRMA PROBLEMLERİ İÇİN EVRİMSEL ALGORİTMA TABANLI YENİ BİR YAKLAŞIM : ROUGH-MEP ALGORİTMASI, Gazi Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği, 2008

Postgraduate, BASIT U TİPİ MONTAJ HATTI DENGEMELEMESİ İÇİN BİR EN KISA YOL MODELİ, Gazi Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği, 2003

### Research Areas

Technical Sciences, Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Evolutionary Computing, Industrial Engineering , Optimization Theory and Methods, Multiobjective Optimization, Heuristic Methods, Production Planning and Control, Scheduling, Decision Theory, Multi Criteria Decision Making, Decision Support Systems, Supply Chain and Logistics Management, Network Design

### Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2017 - Continues

Associate Professor, Erciyes University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2012 - 2017

### Academic and Administrative Experience

Head of Department, Erciyes University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2021 - Continues

Assistant Director of the Institute, Erciyes University, Fen Bilimleri Enstitüsü, 2016 - 2022

Erciyes Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği, 2016 - 2018

Erciyes Üniversitesi, Develi H.S.M.Y.O., Lojistik, 2009 - 2018

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

- I. **Parallel assembly lines worker assignment and balancing problem: A mathematical model and an artificial bee colony algorithm**  
ÖZCAN U., KIZILKAYA AYDOĞAN E., HİMMETOĞLU S., DELİCE Y.  
APPLIED SOFT COMPUTING, vol.130, 2022 (SCI-Expanded)
- II. **Green building envelope designs in different climate and seismic zones: Multi-objective ANN-based genetic algorithm**  
HİMMETOĞLU S., DELİCE Y., KIZILKAYA AYDOĞAN E., UZAL B.  
SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.53, 2022 (SCI-Expanded)
- III. **The impact of organic cotton use and consumer habits in the sustainability of jean production using the LCA approach**  
ŞENER FİDAN F., KIZILKAYA AYDOĞAN E., UZAL N.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 2022 (SCI-Expanded)
- IV. **An application of fuzzy linguistic summarization and fuzzy association rule mining to Kansei Engineering: a case study on cradle design**  
AKGÜL E., DELİCE Y., KIZILKAYA AYDOĞAN E., BORAN F. E.  
Journal of Ambient Intelligence and Humanized Computing, vol.13, no.5, pp.2533-2563, 2022 (SCI-Expanded)
- V. **Use of Topsis Method for Designing Different Textile Products in Coloration via Natural Source "Madder"**  
Akgül E., Bahtiyari M. İ. , Kızilkaya Aydoğan E., Benli H.  
Journal Of Natural Fibers, vol.0, no.0, pp.1-15, 2021 (SCI-Expanded)
- VI. **Life cycle sustainability assessment of a light rail transit system: Integration of environmental, economic, and social impacts**  
GÜLÇİMEN S., Aydogan E., UZAL N.  
INTEGRATED ENVIRONMENTAL ASSESSMENT AND MANAGEMENT, vol.17, no.5, pp.1070-1082, 2021 (SCI-Expanded)
- VII. **Multi-dimensional Sustainability Evaluation of Indigo Rope Dyeing with a life cycle approach and hesitant fuzzy analytic hierarchy process**  
Fidan F. Ş. , KIZILKAYA AYDOĞAN E., UZAL N.  
Journal of Cleaner Production, vol.309, 2021 (SCI-Expanded)
- VIII. **An integrated life cycle assessment approach for denim fabric production using recycled cotton fibers and combined heat and power plant**  
Fidan F., Aydoğan E., UZAL N.  
Journal of Cleaner Production, vol.287, 2021 (SCI-Expanded)
- IX. **Some scheduling problems with sum of logarithm processing times based learning effect and exponential past sequence dependent delivery times**  
Toksarı M. D. , Kızilkaya Aydoğan E., Atalay B., Sarı Ş.  
JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION, vol.2021, no.2, pp.1-14, 2021 (SCI-Expanded)
- X. **Investigation of different denim fabrics with fabric touch tester and sensory evaluation**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.  
JOURNAL OF NATURAL FIBERS, 2021 (SCI-Expanded)
- XI. **PSACONN mining algorithm for multi-factor thermal energy-efficient public building design**  
HİMMETOĞLU S., DELİCE Y., Aydoğan E.  
Journal of Building Engineering, vol.34, 2021 (SCI-Expanded)
- XII. **Rough Kansei Mining Model for Market-Oriented Product Design**  
AKGÜL E., ÖZMEN M., SİNANOĞLU C., Aydogan E. K.  
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2020, 2020 (SCI-Expanded)
- XIII. **Churn prediction in Turkey's telecommunications sector: A proposed multiobjective-cost-sensitive ant colony optimization**  
Özmen M., Aydoğan E., Delice Y., Toksarı M. D.  
Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, vol.10, no.1, 2020 (SCI-Expanded)

- XIV. **Robust multi-criteria decision making methodology for real life logistics center location problem**  
Özmen M., Aydoğan E.  
Artificial Intelligence Review, vol.53, pp.725-751, 2020 (SCI-Expanded)
- XV. **CBR-PSO: cost-based rough particle swarm optimization approach for high-dimensional imbalanced problems**  
Aydoğan E. K. , Özmen M., Delice Y.  
Neural Computing and Applications, vol.31, pp.6345-6363, 2019 (SCI-Expanded)
- XVI. **Balancing stochastic U-lines using particle swarm optimization**  
Aydoğan E., Delice Y., Ozcan U., Gencer C., Bali O.  
JOURNAL OF INTELLIGENT MANUFACTURING, vol.30, pp.97-111, 2019 (SCI-Expanded)
- XVII. **An ant colony optimisation algorithm for balancing two-sided U-type assembly lines with sequence-dependent set-up times**  
Delice Y., Aydoğan E. K. , Söylemez I., Özcan U.  
Sadhana - Academy Proceedings in Engineering Sciences, vol.43, no.12, 2018 (SCI-Expanded)
- XVIII. **Optimization of the Murata Vortex Spinning machine parameters by the SMAA-MOORA approach**  
Kızılkaya Aydoğan E.  
Industria Textila, vol.68, pp.323-331, 2017 (SCI-Expanded)
- XIX. **THE STOCHASTIC VIKOR METHOD AND ITS USE IN REVERSE LOGISTIC OPTION SELECTION PROBLEM**  
Aydoğan E., Özmen M.  
RAIRO-OPERATIONS RESEARCH, vol.51, pp.375-389, 2017 (SCI-Expanded)
- XX. **Balancing two-sided U-type assembly lines using modified particle swarm optimization algorithm**  
Delice Y., Aydoğan E., Ozcan U., Ilkay M. S.  
4OR, vol.15, pp.37-66, 2017 (SCI-Expanded)
- XXI. **A modified particle swarm optimization algorithm to mixed-model two-sided assembly line balancing**  
Delice Y., Aydoğan E., Ozcan U., Ilkay M. S.  
Journal of Intelligent Manufacturing, vol.28, pp.23-36, 2017 (SCI-Expanded)
- XXII. **Developing a Decision-Support System for Waste Management in Aluminum Production**  
Özmen M., Aydoğan E., Ateş N., Uzal N.  
ENVIRONMENTAL MODELING & ASSESSMENT, vol.21, pp.803-817, 2016 (SCI-Expanded)
- XXIII. **MOORA-BASED TAGUCHI OPTIMIZATION FOR SELECTION OF MURATA VORTEX SPINNER MACHINE PARAMETERS**  
AKGÜL E., KIZILKAYA AYDOĞAN E., Akay D., TÜRKSOY H. G.  
TEKSTİL VE KONFEKSİYON, vol.26, no.3, pp.249-255, 2016 (SCI-Expanded)
- XXIV. **Stochastic two-sided U-Type assembly line balancing: A genetic algorithm approach**  
Delice Y., Aydoğan E., Ozcan U.  
International Journal of Production Research, vol.54, pp.3429-3451, 2016 (SCI-Expanded)
- XXV. **A new model suggestion to estimate the probability value in occupational health and safety risk assessment**  
BIYIKLI O., Aydoğan E.  
Applied Mathematics and Information Sciences, vol.10, no.2, pp.663-671, 2016 (SCI-Expanded)
- XXVI. **TWO NEW METHOD FOR MULTI CRITERIA STOCHASTIC DECISION MAKING: SMAA-GRA AND SMAA-DEMATEL-GRA**  
Kızılkaya Aydoğan E.  
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.30, no.4, pp.627-640, 2015 (SCI-Expanded)
- XXVII. **TWO NEW METHOD FOR MULTI CRITERIA STOCHASTIC DECISION MAKING: SMAA-GRA AND SMAA-DEMATEL-GRA**  
KIZILKAYA AYDOĞAN E., ÖZMEN M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.4, pp.627-640, 2015 (SCI-Expanded)
- XXVIII. **A Method Based on SMAA-Topsis for Stochastic Multi-Criteria Decision Making and a Real-World**

## **Application**

Okul D., Gencer C., Aydogan E.

INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, vol.13, no.5, pp.957-978, 2014 (SCI-Expanded)

- XXIX. **A combined approach for fuzzy multi-objective multiple knapsack problems for defence project selection.**  
BAKIRLI B. B. , Gencer C., Aydogan E.  
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, vol.65, no.7, pp.1001-1016, 2014 (SCI-Expanded)
- XXX. **Editorial: New Developments In Scheduling Problems**  
TOKSARI M. D. , Oron ., KIZILKAYA AYDOĞAN E., Barbosa .  
THESCIENTIFICWORLDJOURNAL, vol.2014, pp.1-2, 2014 (SCI-Expanded)
- XXXI. **hGA: Hybrid genetic algorithm in fuzzy rule-based classification systems for high-dimensional problems**  
Aydogan E. K. , Karaoglan I., Pardalos P. M.  
APPLIED SOFT COMPUTING, vol.12, pp.800-806, 2012 (SCI-Expanded)
- XXXII. **Performance measurement model for Turkish aviation firms using the rough-AHP and TOPSIS methods under fuzzy environment**  
Aydogan E. K.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, pp.3992-3998, 2011 (SCI-Expanded)
- XXXIII. **AHP MODEL FOR TRANSITION FROM IPv4 TO IPv6**  
Kızılkaya Aydoğan E.  
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.26, no.3, pp.701-709, 2011 (SCI-Expanded)
- XXXIV. **Evaluation of a light machine gun using analytic network process**  
Aydogan E. K. , Gencer C., Aytürk S.  
Defence Science Journal, vol.59, pp.273-283, 2009 (SCI-Expanded)
- XXXV. **A decision support system for locating VHF / UHF radio jammer systems on the terrain**  
Gencer C., KIZILKAYA AYDOĞAN E., Celik C.  
INFORMATION SYSTEMS FRONTIERS, vol.10, pp.111-124, 2008 (SCI-Expanded)
- XXXVI. **Mining classification rules with Reduced MEPAR-miner Algorithm**  
Aydogan E. K. , Gencer C.  
Applied Mathematics and Computation, vol.195, pp.786-798, 2008 (SCI-Expanded)
- XXXVII. **Chemical agent detector placement methodology**  
GENCER C., KIZILKAYA AYDOĞAN E., Soydemir .  
APPLIED MATHEMATICS AND COMPUTATION, vol.195, pp.542-557, 2008 (SCI-Expanded)
- XXXVIII. **A new intuitional algorithm for solving heterogeneous fixed fleet routing problems: Passenger pickup algorithm**  
Gencer C., Top I., Aydogan E.  
APPLIED MATHEMATICS AND COMPUTATION, vol.181, no.2, pp.1552-1567, 2006 (SCI-Expanded)
- XXXIX. **A shortest route formulation of simple U-type assembly line balancing problem**  
Gokcen H., Agpak K., Gencer C., Kizilkaya E.  
APPLIED MATHEMATICAL MODELLING, vol.29, pp.373-380, 2005 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Rough-AHP and MOORA-based Taguchi Optimization for Mixture Proportion of Building Concrete**  
HİMMETOĞLU S., KIZILKAYA AYDOĞAN E., Ozcan F., KARAHAN O., ATİŞ C. D.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, 2021 (ESCI)
- II. **KANSEİ VE TEMEL BİLEŞENLER ANALİZİ TABANLI BEŞİK TASARIM STRATEJİLERİNİN OLUŞTURULMASI**

- AKGÜL E., DELİCE Y., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.  
Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.8, no.2, pp.850-856, 2019 (Peer-Reviewed Journal)
- III. **FEATURE SELECTION APPLICATION FOR DEMAND FORECASTING IN FURNITURE INDUSTRY**  
ÖZMEN M., KIZILKAYA AYDOĞAN E., HİMMETOĞLU S., DELİCE Y.  
Journal of Turkish Operations Management, pp.74-77, 2018 (Peer-Reviewed Journal)
- IV. **Fuzzy Rough Approach for Telecommunication Sector Churn Prediction Attribute Reduction**  
ÖZMEN M., KIZILKAYA AYDOĞAN E.  
Journal of Turkish Operations Management, pp.78-82, 2018 (Peer-Reviewed Journal)
- V. **TELEKOMÜNİKASYON SEKTÖRÜNDE PSO İLE MÜŞTERİ SEGMENTASYONU**  
ÖZMEN M., DELİCE Y., KIZILKAYA AYDOĞAN E.  
Bilişim Teknolojileri Dergisi, 2018 (Peer-Reviewed Journal)
- VI. **Telekomünikasyon Sektöründe PSO ile Müşteri Bölümlemesi**  
Özmen M., Delice Y., Kızılkaya Aydoğan E.  
BİLİŞİM TEKNOLOJİLERİ DERGİSİ, vol.11, no.2, pp.163-173, 2018 (Peer-Reviewed Journal)
- VII. **KANSEI EVALUATION WITH ROUGH SETS THEORY FOR NEWPRODUCT DEVELOPMENT**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.  
International Journal of Mechanical And Production Engineering, vol.5, pp.103-105, 2017 (Peer-Reviewed Journal)
- VIII. **Attribute Reduction in Stochastic Information Systems Based on  $\alpha$ -Dominance**  
KIZILKAYA AYDOĞAN E., ÖZMEN M.  
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.10, no.2, pp.211-219, 2017 (Peer-Reviewed Journal)
- IX. **Cost Sensitive Feature Selection in Decision-Theoretic Rough Set Models for Customer Churn Prediction: The Case of Telecommunication Sector Customers**  
KIZILKAYA AYDOĞAN E., ÖZMEN M., DELİCE Y.  
International Journal of Social, Behavioral, Educational, Economic, Business and Industrial Engineering, vol.4, no.4, pp.163-167, 2016 (Peer-Reviewed Journal)
- X. **NÖROERGONOMİ VE TEMEL UYGULAMA ALANLARI**  
Bıyıklı Ö., KIZILKAYA AYDOĞAN E.  
Süleyman Demirel Üniversitesi Mühendislik Bilimleri ve Tasarım Dergisi, vol.3, no.3, pp.173-179, 2015 (Peer-Reviewed Journal)
- XI. **A New Integrated Fuzzy Multi-Criteria Decision Model for Performance Evaluation**  
KIZILKAYA AYDOĞAN E., demirtaş ö., dağdeviren m.  
Business and Management Studies, vol.1, no.1, pp.38-55, 2015 (Scopus)
- XII. **A Hybrid Moora Fuzzy Algorithm For Special Education and Rehabilitation Center Selection**  
Özçelik G., KIZILKAYA AYDOĞAN E., GENCER C.  
Journal of Military and Information Science, vol.2, no.3, pp.53, 2014 (Peer-Reviewed Journal)
- XIII. **An algorithm predicting upper level icing potential by fuzzy set theory and an application with this algorithm for Turkey**  
gencer c., KIZILKAYA AYDOĞAN E., karah ç.  
The Open Industrial and Manufacturing Engineering Journal, vol.3, pp.7-12, 2010 (Scopus)
- XIV. **İnsansız hava araçlarının rota planlaması için bir karar destek sistemi**  
gencer c., KIZILKAYA AYDOĞAN E., kocabaş s.  
Kara Harp Okulu Savunma Bilimleri Dergisi, vol.8, no.1, pp.59-73, 2009 (Scopus)
- XV. **Analitik hiyerarşi prosesi ile hafif makineli tüfek seçimi**  
gencer c., KIZILKAYA AYDOĞAN E., aytürk s.  
Kara Harp Okulu Savunma Bilimleri Dergisi, vol.7, no.2, pp.87-106, 2008 (Scopus)
- XVI. **Veri Madenciliği Teknikleri İle Bir Kozmetik Markanın Ayrılan Müşteri Analizi ve Müşteri Bölümlemesi**  
KIZILKAYA AYDOĞAN E., gencer c., akbulut s.  
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.26, no.1, pp.42-56, 2008 (Peer-Reviewed Journal)
- XVII. **Kaba küme yaklaşımı kullanılarak veri madenciliği problemlerinde sınıflandırma amaçlı yapılmış olan**

## çalışmalar

KIZILKAYA AYDOĞAN E., gencer c.

Kara Harp Okulu Savunma Bilimleri Dergisi, vol.6, no.2, pp.17-32, 2007 (Scopus)

## Books & Book Chapters

- I. **THERMAL INSULATION CLUSTERING WITH MULTIDIMENSIONAL CLIMATE CHARACTERISTICS**  
Delice Y., Kızılkaya Aydoğan E., Himmetoğlu S.  
in: SOSYAL BİLİMLER ALANINDA ULUSLARARASI ARAŞTIRMALAR, KILIÇ Samet, Editor, Eğitim Yayınevi, Konya, pp.167-185, 2021
- II. **TODIM YÖNTEMİ VE TERSİNE LOJİSTİK OPSİYON SEÇİMİ UYGULAMASI**  
Kızılkaya Aydoğan E., Özmen M.  
in: ÇOK KRİTERLİ KARAR VERME YÖNTEMLERİ MS EXCEL ÇÖZÜMLÜ UYGULAMAR, PROF. DR. MEHMET KABAK ve DOÇ. DR. YETKİN ÇINAR, Editor, Nobel Yayın Dağıtım, Ankara, pp.277-294, 2020
- III. **TELEKOMÜNİKASYON SEKTÖRÜNDE MÜŞTERİ KAYBI TAHMİNİ: BÜYÜK VE GERÇEK VERİ SETİ ÜZERİNDE ÖRNEK UYGULAMA**  
Kızılkaya Aydoğan E., Özmen M., Delice Y.  
in: YAPAY ZEKÂ VE BÜYÜK VERİ KİTAP SERİSİ 1 Yapay Zekâ ve Büyük Veri: Teknolojiler, Yaklaşımlar ve Uygulamalar, Prof. Dr. Şeref Sağıroğlu, Dr. Mustafa Umut Demirezen, Editor, Nobel Yayın Dağıtım, Ankara, pp.157-181, 2020
- IV. **Veri Madenciliği Tabanlı Enerji Etkin Bina Yapı Kabuğu Tasarımı ve Örnek Bir Uygulama**  
Himmetoğlu S., Delice Y., Kızılkaya Aydoğan E.  
in: Yapay Zekâ ve Büyük Veri: Teknolojiler, Yaklaşımlar ve Uygulamalar, Şeref SAĞIROĞLU, Mustafa Umut DEMİREZEN, Editor, Nobel Yayınevi, Ankara, pp.311-342, 2020
- V. **Travel and Tourism Competitiveness of Economies Around the World Using Rough SWARA and TODIM Method**  
Kızılkaya Aydoğan E., Özmen M.  
in: Strategic Innovative Marketing and Tourism, Androniki Kavoura Efstathios Kefallonitis Prokopios Theodoridis, Editor, Springer, London/Berlin, Berlin, pp.765-774, 2020
- VI. **Baby Cradle Design with Kansei Knowledge Mining Based on Rough Set Theory**  
Akgül E., Özmen M., Kızılkaya Aydoğan E., Sinanoğlu C.  
in: Customer Oriented Product Design, CENGİZ KAHRAMAN, SELÇUK CEBİ, Editor, Springer, London/Berlin, London, pp.469-478, 2020
- VII. **Determination of Denim Fabric's Air Permeability with Image Processing Using Fuzzy C Means**  
Katırcıoğlu G., KIZILKAYA AYDOĞAN E., ÖZMEN M., AKGÜL E.  
in: Intelligent and Fuzzy Techniques in Big Data Analytics and Decision Making, Kahraman Cengiz, Cebi Selcuk, Onar Sezi Cevik, Oztaysi Basar, Tolga A. Cagri, Ucal Sari Irem, Editor, SPRINGER, pp.1208-1214, 2019
- VIII. **Sustainable Waste Management System And Reverse Logistic Network Design In Plastic Industry**  
Kızılkaya Aydoğan E., Ateş N., Uzal N., Zaralı F., Petraq P.  
in: Enterprise Business Modeling Optimization Techniques and Flexible Information Systems, Petraq J. Papajorgji, Alaine Margarete Guimarães, Mario R. Guarracino, Editor, Global Publications, Pennsylvania, pp.159-176, 2013
- IX. **An Effective Approach For Evaluating Usability Of Web Sites**  
KIZILKAYA AYDOĞAN E., KILIÇ DELİCE E., Petraq P.  
in: Enterprise Business Modeling Optimization Techniques and Flexible Information Systems, Petraq J. Papajorgji, Alaine Margarete Guimarães, Mario R. Guarracino, Editor, Hershey PA, pp.97-107, 2013
- X. **Fuzzy Combinatorial Optimization Problems**  
pardalos p., KIZILKAYA AYDOĞAN E., GÜRBÜZ F., demirtaş ö., boğa bakırlı b.  
in: Handbook of Combinatorial Optimization, Panos M. Pardalos, Ding-Zhu Du, Ronald L. Graham, Editor, Springer-Verlag, New York, pp.1357-1413, 2013

- XI. **Simultaneous Pick-up and Delivery Decision Support Systems**  
gencer c., KIZILKAYA AYDOĞAN E., çetin s.  
in: Decision Support Systems Advances, Ger Devlin, Editor, Intech, New York, pp.203-214, 2010
- XII. **Simultaneous Pick-up and Delivery Decision Support Systems**  
GENCER C., KIZILKAYA AYDOĞAN E., ÇETİN S.  
in: Decision Support Systems Advances, Ger Devlin, Editor, INTECH, new york, pp.203-214, 2010

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Generating The Predicted Image Of Denims Using Production Parameters And Image Processing Techniques**  
ŞİMŞEK O. Ç. , KIZILKAYA AYDOĞAN E., DELİCE Y.  
ISERD International Virtual Conference / July 2022, India, 05 July 2022
- II. **SELECTION OF THE BUILDING ENVELOPE BY USING COVERING-BASED IF-ROUGH SETS AND TAGUCHI METHOD**  
Delice Y., Kızılkaya Aydoğan E., Himmetoğlu S.  
USBİK 2020, Kayseri, Turkey, 29 - 31 January 2020, pp.146
- III. **Farklı Meteorolojik Niteliklere Göre İklim Bölgelerini Kümelemek için Veri Madenciliği Yaklaşımı**  
Delice Y., Kızılkaya Aydoğan E., Himmetoğlu S.  
International Conference on Access to Recent Advances in Engineering and Digitalization, ARACONF 2020, Kayseri, Turkey, 5 - 07 March 2020, pp.4-5
- IV. **Determination of Denim Fabric's Air Permeability with Image Processing Using Fuzzy C Means**  
KATIRCIOĞLU G., KIZILKAYA AYDOĞAN E., ÖZMEN M., AKGÜL E.  
In International Conference on Intelligent and Fuzzy Systems, 23 - 25 July 2019
- V. **Travel and Tourism Competitiveness of Economies Around the World Using Rough SWARA and TODIM Method**  
KIZILKAYA AYDOĞAN E., ÖZMEN M.  
In Strategic Innovative Marketing and Tourism, 17 - 21 July 2019
- VI. **CO2 emission and energy consumption for different climate and building materials**  
Himmetoğlu S., Delice Y., Kızılkaya Aydoğan E.  
International Data Science Engineering Symposium, IDSES'19, Karabük, Turkey, 2 - 03 May 2019, pp.143-145
- VII. **Prediction of Air Permeability of Denim Fabrics Using Artificial Neural Networks**  
AKGÜL E., KIZILKAYA AYDOĞAN E., DELİCE Y.  
International Data Science Engineering Symposium, Karabük, Turkey, 2 - 03 May 2019, pp.262
- VIII. **The Tendency of The Market In The Furniture Industry For Design**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.  
4th International Conference on Engineering Technology and Applied Sciences Congress, 24 - 28 April 2019
- IX. **Customer preference based Small Household Appliances selection using MOORA Optimization Approach**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.  
3'rd International Symposium on Industrial Design & Engineering, Antalya, Turkey, 22 - 25 November 2018, pp.196-201
- X. **Emotional Evaluation of the Iron with Semantic Differential Scale**  
AKGÜL E., KIZILKAYA AYDOĞAN E., DELİCE Y.  
12.NCMConferences New Challenges in industrial Engineering and Operations Management, 11 - 12 September 2018, pp.71-73
- XI. **Feature Selection Application for Demand Forecasting in Furniture Industry**  
ÖZMEN M., KIZILKAYA AYDOĞAN E., himmetoğlu s., DELİCE Y.  
12TH NCM INTERNATIONAL CONFERENCE, 11 - 12 September 2018
- XII. **Fuzzy Rough Approach for Telecommunication Sector Churn Prediction Attribute Reduction**

- ÖZMEN M., KIZILKAYA AYDOĞAN E.  
12TH NCM INTERNATIONAL CONFERENCE, 11 - 12 September 2018
- XIII. **EMOTIONAL EVALUATION OF THE IRON WITH SEMANTIC DIFFERENTIAL SCALE**  
AKGÜL E., KIZILKAYA AYDOĞAN E., DELİCE Y.  
12TH NCM INTERNATIONAL CONFERENCE ON NEW CHALLENGES IN INDUSTRIAL ENGINEERING AND OPERATIONS MANAGEMENT, Ankara, Turkey, 11 - 12 September 2018, pp.71-74
- XIV. **DETERMINATION OF DENIM FABRICS FOR SUMMER SHIRT USING MULTI-CRITERIA DECISION MAKING**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.  
12TH NCM INTERNATIONAL CONFERENCE ON NEW CHALLENGES IN INDUSTRIAL ENGINEERING AND OPERATIONS MANAGEMENT, Ankara, Turkey, 11 - 12 September 2018, pp.66-70
- XV. **Feature Selection Application for Demand Forecasting in Furniture Industry**  
Özmen M., Kızılkaya Aydoğan E., Himmetoğlu S., Delice Y.  
12TH NCM INTERNATIONAL CONFERENCE, Ankara, Turkey, 11 - 12 September 2018, pp.74-77
- XVI. **ESTIMATING OF CUSTOMER PERCEPTIONS WITH ARTIFICIAL NEURAL NETWORK**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.  
UMTEB - 2. INTERNATIONAL CONGRESS ON VOCATIONAL AND TECHNICAL SCIENCES, Batum, Georgia, 10 - 13 May 2018, pp.36
- XVII. **APPLICATION OF ARTIFICIAL NEURAL NETWORKS TO ESTIMATE THE TEAR STRENGTH OF DENIM FABRICS**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C.  
UMTEB - 2. INTERNATIONAL CONGRESS ON VOCATIONAL AND TECHNICAL SCIENCES, Batum, Georgia, 10 - 13 May 2018, pp.35
- XVIII. **PRODUCT DESIGN IMPROVEMENT WITH TAGUCHI METHOD**  
AKGÜL E., KIZILKAYA AYDOĞAN E.  
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukraine, 2 - 06 May 2018, pp.216
- XIX. **SELECTION OF DENIM FABRICS FOR AS A WORK CLOTHING USING MULTI-CRITERIA DECISION MAKING**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĞLU C., AKAY D.  
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukraine, 2 - 06 May 2018, pp.215
- XX. **Fuzzy Rough Attribute Reduction with Application to Churn Prediction in Telecommunication Sector**  
KIZILKAYA AYDOĞAN E., ÖZMEN M.  
4th International Conference on Engineering and Natural Science, KIEV, UKRAINE, 2 - 06 May 2018
- XXI. **Some Scheduling Problems with Position Dependent Delivery Times and Linear Deteriorating Jobs**  
TOKSARI M. D. , KIZILKAYA AYDOĞAN E., ONAY B.  
10th European Business Research Conference, Roma, Italy, 14 - 15 December 2017, pp.1-4
- XXII. **Supermarket Location Problem for Assembly Line and An Application for Furniture Company**  
KIZILKAYA AYDOĞAN E., TOKSARI M. D. , Himmetoğlu S., DELİCE Y., Özcan U.  
10th European Business Research Conference, Roma, Italy, 14 - 15 December 2017, pp.1-8
- XXIII. **Telekomünikasyon Sektöründe Müşteri Kaybının Veri Madenciliği Yöntemleri ile Tahmin Edilmesi**  
ÖZMEN M., KIZILKAYA AYDOĞAN E., DELİCE Y.  
1. Uluslararası Sosyoloji ve Ekonomi Kongresi, KAYSERİ, 24 - 26 November 2017
- XXIV. **Sıcaklık Etkisi Altında Toplam Gecikme Çizelgeleme Problemine Çözüm Yaklaşımı**  
TOKSARI M. D. , KIZILKAYA AYDOĞAN E.  
1. Uluslararası Sosyoloji ve Ekonomi Kongresi, 24 - 26 November 2017
- XXV. **Telekomünikasyon sektöründe müşteri kaybının veri madenciliği yöntemleri ile tahmin edilmesi**  
ÖZMEN M., KIZILKAYA AYDOĞAN E., DELİCE Y.  
I. ULUSLARARASI SOSYOLOJİ EKONOMİ KONGRESİ, 24 - 26 November 2017
- XXVI. **Bir mobilya firmasında karınca kolonisi algoritması ile karışık modellenmiş montaj hattı dengeleme**



- DELİCE Y., KIZILKAYA AYDOĞAN E., himmetođlu s., ÖZCAN U.  
I.Uluslararası Sosyoloji ve Ekonomi Kongresi, 24 - 26 November 2017
- XXVII. **Parçacık sürü optimizasyonu ile stokastik montaj hattı dengeleme: Televizyon üreticisi firma için bir uygulama**  
KIZILKAYA AYDOĞAN E., DELİCE Y., himmetođlu s., ÖZCAN U.  
I.ULUSLARARASI SOSYOLOJİ VE EKONOMİ KONGRESİ, 24 - 26 November 2017
- XXVIII. **A multi-objective capacitated facility location problem for waste collection site selection in an air base.**  
KIZILKAYA AYDOĞAN E., ÖZMEN M., bođa bakırlı b.  
I.ULUSLARARASI SOSYOLOJİ VE EKONOMİ KONGRESİ, 24 - 26 November 2017
- XXIX. **Hücre sel imalat yapan bir batarya firması için karışık modellenli montaj hattı dengeleme**  
DELİCE Y., KIZILKAYA AYDOĞAN E., himmetođlu s.  
IMSEC 2017, 25 - 27 October 2017, pp.2366-2371
- XXX. **Kansei Evaluation With Rough Sets Theory For New Product Development**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĐLU C.  
International Conference on Advances in Business Management and Information Technology (ICABMIT), Roma, Italy, 20 - 21 October 2017, pp.52-56
- XXXI. **Municipality Management Information System Selection Problem: An Application Of Smaa-Vikor**  
KIZILKAYA AYDOĞAN E., ÖZMEN M.  
Second International Symposium on INDUSTRIAL DESIGN & ENGINEERING, Nevşehir, Turkey, 13 - 15 September 2017, pp.15-19
- XXXII. **Determination Of Municipality Management Information System Criteria And Determination Of Weights By Rough-Ahp Method**  
KIZILKAYA AYDOĞAN E., ÖZMEN M.  
Second International Symposium on INDUSTRIAL DESIGN & ENGINEERING, Nevşehir, Turkey, 13 - 15 September 2017, pp.20-24
- XXXIII. **Product Design With Ion Motion Algorithm Based On Kansei Engineering**  
AKGÜL E., KIZILKAYA AYDOĞAN E., SİNANOĐLU C., ERTEKİN M.  
International Symposium on Industrial Design Engineering (ISIDE), Nevşehir, Turkey, 13 - 15 September 2017, pp.216-221
- XXXIV. **Classification Of Diabetes' Disease With Data Mining Techniques**  
KIZILKAYA AYDOĞAN E., ÖZMEN M.  
Second International Symposium on INDUSTRIAL DESIGN & ENGINEERING, Nevşehir, Turkey, 13 - 15 September 2017, pp.10-14
- XXXV. **Application of Clustering Algorithms in Churn Management: A Case Study in Telecommunication Sector**  
ÖZMEN M., KIZILKAYA AYDOĞAN E.  
1st International Mediterranean Science and Engineering Congress, Adana, Turkey, 26 October - 28 November 2016, pp.1
- XXXVI. **Ergonomik Kabza Tasarımı ve Uygulaması**  
AKGÜL E., KIZILKAYA AYDOĞAN E., AKAY D., SİNANOĐLU C.  
3B Baskı Teknolojileri Uluslararası Sempozyumu, İstanbul, Turkey, 5 - 07 May 2016, pp.51-56
- XXXVII. **Cost Sensitive Feature Selection in Decision Theoretic Rough Set Models for Customer Churn Prediction The Case of Telecommunication Sector Customers**  
KIZILKAYA AYDOĞAN E., ÖZMEN M., DELİCE Y.  
ICCI 2016:18th International Conference on Computer and Information Engineering, 22 - 23 April 2016
- XXXVIII. **LOJİSTİK MERKEZ YER SEÇİMİNDE DEMATEL-MOORA YÖNTEMİYLE KAYSERİ İLİ İÇİN BİR UYGULAMA**  
ÖZMEN M., KIZILKAYA AYDOĞAN E., ZARALI F.  
Yöneylem Araştırması ve Endüstri Mühendisliği (YAEM) 35. Ulusal Kongresi, Ankara, Turkey, 9 - 11 September 2015, vol.1, no.1, pp.133
- XXXIX. **Logistics Center Location Selection Using The New Method Smaatodim**

ÖZMEN M., KIZILKAYA AYDOĞAN E., ZARALI F.

23rd International Conference on Multiple Criteria Decision Making MCDM 2015 - Bridging Disciplines, Hamburg, Germany, 02 August 2015, pp.1-2

- XL. **AIRLINE FLEET ASSIGNMENT AND ROUTING FOR COMBINATION CARRIERS**  
DANACI ŞAKALAR T., ÖZMEN M., KIZILKAYA AYDOĞAN E., TOKSARI M. D.  
LM-SCM 2014 XII. International Logistics and Supply Chain Congress, İstanbul, Turkey, 30 - 31 October 2014, pp.1
- XLI. **Determining the Priority Waste in Aluminum Manufacturing Sector Using the SMAA-2 Method: A Case Study of Kayseri**  
KIZILKAYA AYDOĞAN E., ATEŞ N., Uzal N., ÖZMEN M.  
Joint International Symposium on CIE44 and IMSS'14, İstanbul, Turkey, 14 - 16 October 2014, pp.1-8
- XLII. **Application of Segmentation Algorithm for the Assessment of Amniotic Fluid Quantity from Ultrasound Images**  
ÖZMEN M., İÇER S., KIZILKAYA AYDOĞAN E.  
Tıp Teknolojileri Ulusal Kongresi 2014, Nevşehir, Turkey, 25 - 27 September 2014, pp.10
- XLIII. **INVESTIGATION OF PRIORITY WASTES AND WASTEWATER TREATMENT STUDIES IN ALUMINUM PRODUCTS MANUFACTURING SECTOR**  
ÖZMEN M., Başak A., KIZILKAYA AYDOĞAN E., Uzal N., ATEŞ N.  
International Symposium on Environmental Sciences Van 2014, Van, Turkey, 4 - 07 June 2014, pp.1-2
- XLIV. **Reverse Logistics Options Selection Problem: An Application Of Smaa-2**  
ÖZMEN M., KIZILKAYA AYDOĞAN E.  
IX. INTERNATIONAL LOGISTICS SUPPLY CHAIN CONGRESS, Nevşehir, Turkey, 07 November 2013, pp.673-680
- XLV. **Özel Eğitim Ve Rehabilitasyon Merkezi Seçiminde Çok Kriterli Bir Yöntem Uygulaması**  
erdem s., KIZILKAYA AYDOĞAN E., atmaca e., gencer c., ÖZMEN M.  
XIVth INTERNATIONAL SYMPOSIUM ON ECONOMETRICS, OPERATIONS RESEARCH AND STATISTICS, Kütahya, Turkey, 24 - 28 May 2013, pp.22
- XLVI. **IPv4'den IPv6'ya Geçiş İçin Örnek Bir Karar Destek Sistemi Modeli: GEMKAR**  
soylu M., KIZILKAYA AYDOĞAN E., çetin s., gencer c., sağıroğlu ş.  
IPv6 Konferansı, Ankara, Turkey, 13 January 2011, pp.1
- XLVII. **An Attribute Reduction Algorithm Based on Fuzzy Rough Set**  
KIZILKAYA AYDOĞAN E., gencer c., ağırgün b.  
24th Mini EURO Conference on Continuous Optimization and Information-Based Technologies in The Financial Sector, İzmir, Turkey, 23 - 26 June 2010, pp.306-311
- XLVIII. **Deterministik U-tipi Hat Dengeleme Problemi için Parçacık Sürü Optimizasyonu Algoritması**  
bali ö., gencer c., KIZILKAYA AYDOĞAN E.  
Yöneylem Araştırması ve Endüstri Mühendisliği 29. Ulusal Kongresi, Ankara, Turkey, 22 - 24 June 2009, pp.1
- XLIX. **Data Mining Recent Applications in Manufacturing Systems**  
KIZILKAYA AYDOĞAN E., GÜRBÜZ F.  
Innovative Approaches to UniversitySmall and Medium Enterprises (SMES) Cooperation, Workshop I, Lithuania, 19 - 20 March 2009
- L. **Decision Making Using an Analytic Network Process (ANP) Approach for Performance Evaluation**  
KIZILKAYA AYDOĞAN E., GÜRBÜZ F.  
Innovative Approaches to UniversitySmall and Medium Enterprises (SMES) Cooperation, Workshop I, Lithuania, 19 - 20 March 2009
- LI. **Classification With Decision Trees And Polyanalyst's Decision Tree Engine,**  
KIZILKAYA AYDOĞAN E., GÜRBÜZ F.  
Innovative Approaches to UniversitySmall and Medium Enterprises (SMES) Cooperation, Workshop I, Lithuania, 19 - 20 March 2009
- LII. **A Data Minig Software: Polyanalyst**  
KIZILKAYA AYDOĞAN E., GÜRBÜZ F.  
Innovative Approaches to UniversitySmall and Medium Enterprises (SMES) Cooperation, Workshop I, Lithuania, 19 - 20 March 2009

### LIII. Preprocessing In Data Mining Applications

KIZILKAYA AYDOĞAN E., GÜRBÜZ F.

Innovative Approaches to University Small and Medium Enterprises (SMES) Cooperation, Workshop I, Lithuania, 19 - 20 March 2009

### Supported Projects

KIZILKAYA AYDOĞAN E., DELİCE Y., AKGÜL E., TUBITAK Project, DENİM SEKTÖRÜNDE KARAR DESTEK SİSTEMİ TABANLI DİJİTAL TASARIM, 2020 - 2022

SİNANOĞLU C., KIZILKAYA AYDOĞAN E., AKGÜL E., AKAY D., Project Supported by Higher Education Institutions, DENİM KUMAŞ ÜRETİM PARAMETRELERİ İLE KONFOR PARAMETRELERİ ARASINDAKİ AKILLI İLİŞKİNİN BELİRLENMESİ, 2018 - 2022

Kızılkaya Aydoğan E., TUBITAK Project, GENETİK ALGORİTMA TABANLI GENÇ NESİL MOBİLYASINDA DUYGUSAL TASARIM, 2018 - 2019

Kızılkaya Aydoğan E., Delice Y., Öztürk K., TUBITAK Project, Talep Toplama ve Sevkiyat Sürecinde Teknolojik Dönüşüm, 2018 - 2019

KIZILKAYA AYDOĞAN E., ÖZCAN U., DELİCE Y., Project Supported by Higher Education Institutions, PARÇA TEDARİKLİ, DENGELENMİŞ, SÜPER MARKET YERLEŞİM MODELİ, 2017 - 2018

TOKSARI M. D. , ONAY B., KIZILKAYA AYDOĞAN E., Project Supported by Higher Education Institutions, Doğrusal bozulma etkisi ve pozisyon tabanlı sıra bağımlı teslimat süreli çizelgeleme problemlerine polinom zamanlı çözüm yaklaşımları, 2017 - 2017

KIZILKAYA AYDOĞAN E., ÖZMEN M., DELİCE Y., TOKSARI M. D. , Industrial Thesis Project, TurkNet Kaba Churn Tabanlı Karar Destek Bilişim Sistemi, 2015 - 2016

KIZILKAYA AYDOĞAN E., Project Supported by Other Official Institutions, Kayseri Lojistik Master Planı, ORAN Kalkınma Ajansı Doğrudan Faaliyet Desteği, 2015 - 2015

ATEŞ N., BAŞAK A., UZAL N., KIZILKAYA AYDOĞAN E., TUBITAK Project, Alüminyum mamul Üretim sektöründe Öncelikli Atıkların Belirlenmesi ve Entegre Atık Yönetim Sisteminin Oluşturulması, 2013 - 2015

KIZILKAYA AYDOĞAN E., ZARALI F., Project Supported by Higher Education Institutions, TERSİNE LOJİSTİKTE BÜTÜNLEŞİK AĞ TASARIMI, BULANIK KARMA TAMSAYILI PROGRAMLAMA MODELİ VE TÜRKİYE'DE, 2009 - 2015

KIZILKAYA AYDOĞAN E., TUBITAK Project, Ulusal IPv6 Protokol Altyapısı Tasarımı ve Geçiş Projesi, 2009 - 2011

### Activities in Scientific Journals

Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, Editor, 2018 - Continues

Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, First Editor, 2016 - Continues

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