

July 23, 2019	Parallel Session 1	
Session Chair	Özlem Şenvar	
Session Name	Special Session on Soft Models in Probability and Statistics	
Session Room	Room Topkapı Palace	
	Paper Title	Authors
10:45-12:15	Sales Forecasting by Artificial Neural Networks for the Apparel Retail Chain Stores	Sule Itir Satoglu, Nadide Caglayan, E.Nisa Kapukaya
	Causes and Effects of Climate Change via a Fuzzy Inference System	Gizem Koca, Mohammad T. A. Bhuiyan, Rene V. Mayorga
	Intuitionistic Fuzzy c-Control Charts Using Fuzzy Comparison Methods	Hatice Ercan Teksen, Ahmet Sermet Anagün
	An Unsupervised Data Mining Approach for Clustering Customers of Abrasive Manufacturer	Dilek Akburak, Necla Yel, Özlem Şenvar
	Some statistical and CI models to predict chaotic high-frequency financial data	Dusan Marcek, Martin Madera

July 23, 2019	Parallel Session 2	
Session Chair	Nihal Erginel	
Session Name	Special Session on Intelligent Systems for Risk Analysis under Uncertainties	
Session Room	Room Hagia Sophia	
	Paper Title	Authors
10:45-12:15	C2C E-Commerce Fuzzy Risk Analysis with Buyer Perspective	Saliha Karadayi-Usta
	A Fuzzy Based Risk Assessment Model with a Real Case Study	Selin Aslantas, Serap Tepe, Bülent Mertoğlu
	Developing the Neutrosophic Fuzzy FMEA Method As Evaluating Risk Assessment Tool	Sezen Ayber, Nihal Erginel
	The Quick Exposure Check (QEC) model proposal based on Fuzzy Logic for work-related musculoskeletal risk assessment	Yildiz Kose, Ayse Nur Karabayir, Emre Cevikcan
	Machine Criticality Level Assignment with Fuzzy Inference System for RCM	Hülya Torun, Serkan Çetinkaya

July 23, 2019	Parallel Session 3	
Session Chair	Lazim Abdullah	
Session Name	Special session on Fuzzy Extensions and Its Application on Decision Making	
Session Room	Room Galata Tower	
	Paper Title	Authors
10:45-12:15	AS/RS Technology Selection using Interval-Valued Pythagorean Fuzzy WASPAS	Eda Boltürk, Cengiz Kahraman
	Spherical Fuzzy Analytic Hierarchy Process (AHP) and Its Application to Industrial Robot Selection	Fatma Kutlu Gündoğdu, Cengiz Kahraman
	The Use of Fuzzy DEMATEL for Urban Sustainable Development	Lazim Abdullah, Nuraini Rahim
	Evaluation of Hydroponic System in Vertical Farming via Fuzzy EDAS Method	A. Cagri Tolga, Berkan Gamsiz, Murat Basar

July 23, 2019	Parallel Session 4	
Session Chair	Gülçin Büyüközkan	
Session Name	Special session on Fuzzy Extensions and Its Application on Decision Making	
Session Room	Room Maiden's Tower	
	Paper Title	Authors
10:45-12:15	A Fuzzy MCDM Approach for Project Selection Criteria Prioritization in a Big-Four Company: Evidences from Turkey Consultancy Sector	Tuğçe Beldek, Aziz Kemal Konyalıoğlu, Hatice Camgöz-Akdağ
	An Interval-Valued Intuitionistic Fuzzy Approach to the Assignment Problem	Velichka Traneva, Stoyan Tranev
	Smart Fridge Design with Interval-Valued Intuitionistic Fuzzy QFD	Gülçin Büyüközkan, Deniz Uztürk
	Assessment of Additive Manufacturing Technology by Pythagorean Fuzzy CODAS	Gülçin Büyüközkan, Fethullah Göçer
	Evaluation of Home Health Care Vehicle Routing Methods by Intuitionistic Fuzzy AHP	İskender Peker, Gülçin Büyüközkan, Gokhan Caybası, Fethullah Göçer

July 23, 2019	Parallel Session 1	
Session Chair	Oussama Masmoudi	
Session Name	Special Session on Real World Applications of Computational Intelligence in Big Data and Business Analytics	
Session Room	Room Topkapı Palace	
	Paper Title	Authors
13:30-15:00	Partitioning the Time of Day for Bus Schedule Optimization	Seda Yanık, Alperen Bulut
	Using Consumer Reviews for Demand Planning: Case of Configurable Products	Erkan Işıklı, Mert Ketenci
	Competitive Positioning Analysis with Learning Vector Quantization	Umut Asan
	Using Support Vector Machine for the Prediction of Unpaid Credit Card Debts	Meltem Yontar, Özge Hüsniye Namlı Dağ, Seda Yanık
	A simultaneous lot-sizing and scheduling problem with energetic aspects	Oussama Masmoudi, Alice Yalaoui, Yassine Ouazene, Hicham Chehade, Farouk Yalaoui

July 23, 2019	Parallel Session 2	
Session Chair	Cigdem Kadaifci	
Session Name	Special Session on Intelligent and Fuzzy Systems in Business and Economics	
Session Room	Room Hagia Sophia	
	Paper Title	Authors
13:30-15:00	Improvement of the Simulation Model for High Accuracy Leaf Spring Test Bench by Implementing Fuzzy Logic	Elif Üstünışık, Ahmet Kırılı, İsmail O. Er, Yunus E. Erginsoy
	Leg Base Airline Flight Carbon Emission Performance Assessment Using Fuzzy ANP	Furkan Aydoğan, İlke Bereketli Zafeirakopoulos
	An Improved Fuzzy Cognitive Mapping Method	Cigdem Kadaifci, Umut Asan
	Stability of Complex-valued Neutral-type Neural Networks With Time-varying Delays	Manchun Tan, Zhiqiang Song, Xuemei Zhang
	Determination of Denim Fabric's Air Permeability with Image Processing Using Fuzzy C Means	Gözde Katırcıoğlu, Emel Kızılkaya Aydoğan, Mihrimah Özmen, Esra Akgül

July 23, 2019	Parallel Session 3	
Session Chair	Gülçin Büyüközkan	
Session Name	Special session on Fuzzy Extensions and Its Application on Decision Making	
Session Room	Room Galata Tower	
	Paper Title	Authors
13:30-15:00	Double Hierarchy Hesitant Fuzzy Linguistic Term based MULTIMOORA Model for Solar Energy Investment Decision	Veysel Çoban, Sezi Çevik Onar
	Multi Criteria Decision Making based on TOPSIS Method with Extended Fuzzy Sets	Hülya Torun, Münevver Gördebil
	Assessment of Big Data Vendors by Intuitionistic Fuzzy TODIM	Fethullah Göçer, Gülçin Büyüközkan
	Intuitionistic Fuzzy InterCriteria Approach to the Assessment in a Fast Food Restaurant	Velichka Traneva, Stoyan Tranev
	A Grey Approach to Evaluate Success and Risk Factors in Supply Chain Management	Öykü Ilıcak, Gülçin Büyüközkan, Orhan Feyzioğlu

July 23, 2019	Parallel Session 4	
Session Chair	Gülfem Tuzkaya	
Session Name	Special Session on Intelligent Solution Methods for Supply Chain Problem	
Session Room	Room Maiden's Tower	
	Paper Title	Authors
13:30-15:00	An Interpretive Structural Fuzzy Analysis for CPFRR Implementation Barriers: A Food Supply Chain Case Study	Saliha Karadayi-Usta
	A Novel Neighborhood Generation Method for Heuristics and Application to Traveling Salesman Problem	Melike Öztürk, Çiğdem Alabaş Uslu
	Evaluation of Electric Vehicles Station Locations with an Extended TOPSIS Methodology Using Probabilistic Linguistic Term Sets	Gülfem Tuzkaya, Zeynep Tugce Kalender, Huseyin Selçuk Kılıç , Busra Gulnihhan Dascioglu
	Supplier Selection in a Construction Company Using Fuzzy AHP and Fuzzy TOPSIS	Ayşe Nur Karabayır, Ahmet Reha Botsalı , Yıldız Kose , Emre Cevikcan
	Supplier Selection Using Fuzzy Analytic Network Process	Bahar Sennaroglu, Orhan Akıcı

July 23, 2019	Parallel Session 1	
Session Chair	Basar Oztaysi	
Session Name	Special Session on Real World Applications of Computational Intelligence in Big Data and Business Analytics	
Session Room	Room Topkapı Palace	
	Paper Title	Authors
15:15-16:45	Click and Sales Prediction for Digital Advertisements: Real World Application for OTAs	Ahmet Tezcan Tekin, Ferhan Cebi
	Intelligent Visual Analysis in Employee Fraud Detection	Buket Doğan, Başar Öztayşi
	Predicting Cycle Times in Textile Manufacturing Using Artificial Neural Network	Erdem Onaran, Seda Yanık
	Modularization Challenges in Prolog: What to Divide and Conquer in AI	Ahmet Egesoy, Midainan Jean Kemtongue
	Analytics Powered by Cloud Infrastructure	Kıvanç Oktaş

July 23, 2019	Parallel Session 2	
Session Chair	Issam Kouatli	
Session Name	Special Session on Intelligent and Fuzzy Systems in Business and Economics	
Session Room	Room Hagia Sophia	
	Paper Title	Authors
15:15-16:45	A Proposed Service Level Improvement Methodology for Public Transportation Using Interval Type-2 Fuzzy EDAS Based On Customer Satisfaction Data	Murat Levent Demircan, Suzan Tunc
	Evaluating indoor air quality in offices and classrooms using fuzzy logic	İhsan Erozan, Emre Özel, Damlanur Talaz
	Fuzzy Prioritization of Factors affecting Employer Branding for Employees	Ali Çolak, Aylin Adem, Metin Dağdeviren
	Fuzzy Volatility of Project Option Value based on Trapezoidal Membership Functions	Issam Kouatli, Skander Ben Abdallah

July 23, 2019	Parallel Session 3	
Session Chair	Alvaro Labella Romero	
Session Name	Special session on Fuzzy Extensions and Its Application on Decision Making	
Session Room	Room Galata Tower	
	Paper Title	Authors
15:15-16:45	An integrated Interval-Valued Neutrosophic AHP & TOPSIS Methodology for Sustainable Cities' Challenges	Ali Karaşan, Cengiz Kahraman, Eda Bolturk
	Fuzzy Multi-Objective Decision Making Approach For Nuclear Power Plant Installation	Esra Çakır, H.Ziya Ulukan
	Decision Making Under Fuzzy Environment with Incomplete Information	Ayta Yazıcı, Tuncay Gürbüz
	FLINTSTONES 2.0 an Open and Comprehensive Fuzzy Tool for Multi-criteria Decision Analysis	Álvaro Labella, Luis Martínez
	An Integrated Balanced Scorecard &Fuzzy BOCR Decision Model for Performance Evaluation	Kübra Karabece, Tuncay Gürbüz

July 23, 2019	Parallel Session 4	
Session Chair	Özlem Şenvar	
Session Name	Special Session on Data-Driven Decision Making with Uncertainty-II	
Session Room	Room Maiden's Tower	
	Paper Title	Authors
15:15-16:45	Customer Segmentation Method Determination Using Neutrosophic Sets	Cengiz Kahraman, Basar Oztaysi , Sezi Cevik Onar
	A Fuzzy Neural Tree for the Evaluation of Shape in an Architectural Design	Michael S. Bittermann, Ecenur Yavuz, Ozer Ciftcioglu
	Multi-Class Categorization of User-Generated Content in a Domain Specific Medium: Inferring Product Specifications from E-Commerce Marketplaces	Kemal Toprak Uçar, M. Borahan Tümer, Mustafa Kırac
	Application of Multiple Imputation Using Fuzzy Archaeological Data	Tutku Tuncalı Yaman
	Analysis of Relation Between Human Development and Competitiveness Using Fuzzy ANP and DEA	Hakan Kılıç, Özgür Kabak

July 24, 2019	Parallel Session 1	
Session Chair	Başar Öztayşi	
Session Name	Special Session on Real World Applications of Computational Intelligence in Big Data and Business Analytics	
Session Room	Room Topkapı Palace	
	Paper Title	Authors
10:45-12:15	Process Mining Application for Analysis of Customer's Different Visits in a Shopping Mall	Onur Dogan, Carlos Fernandez-Llatas , Basar Oztaysi
	A fuzzy base classifier for fuzzy data included location segmentation	Sultan Ceren Öner, Basar Öztaysi
	Real Time Content-Based News Recommendation in Turkish with Apache Spark	Didem Makaroğlu, Altan Çakır, Mert Candar, Koray Kocabaş
	Use of Process Mining in Bank Real Estate Transactions and Visualization with Fuzzy Models	Orhan Engin, Ibrahim E. Yazici
	An Empirical Analysis of Swarm Intelligence Techniques on ATM Cash Withdrawal Forecasting	Ali Fuat Alkaya, Esmâ Danacı, Onur Gürkan Gültekin

July 24, 2019	Parallel Session 2	
Session Chair	Dorota Kuchta	
Session Name	Special Session on Intelligent and Fuzzy Systems in Business and Economics	
Session Room	Room Hagia Sophia	
	Paper Title	Authors
10:45-12:15	Measuring the Performance of Factoring and Financial Leasing Firms Under Balanced Scorecard Perspective Using Pythagorean Fuzzy Sets	Ezgi Demir, Çağlar Karamaşa , Serpil Altınırmak, Namık Kemal Erdoğan, Basil Okoth
	A linguistic system of defining and controlling project success	Dorota Kuchta
	Application of Fuzzy TOPSIS for credit scoring	Nihad Mehdi
	Stakeholder Communication Impact on the Success of IT Project – Fuzzy Approach	Barbara Gladysz, Dorota Kuchta
	A Hesitant Fuzzy Correspondence Analysis	Ozgur Yanmaz, Cafer Erhan Bozdog, Cigdem Kadaifci

July 24, 2019	Parallel Session 3	
Session Chair	Gülfem Tuzkaya	
Session Name	Special Session on Intelligent Solution Methods for Supply Chain Problem	
Session Room	Room Galata Tower	
	Paper Title	Authors
10:45-12:15	Healthcare Service Provider Type Selection of the Medical Tourists by Using Neutrosophic Sets	Saliha Karadayi-Usta, Cafer Erhan Bozdog
	Evaluation of Small Household Appliances' Collection Method with fuzzy MCDM approach: A Case of Turkey	Aziz Kemal Konyalıoğlu, İlke Bereketli Zafeirakopoulos
	Supply Chain Greenness Assessment Based on Intuitionistic Fuzzy Approaches	Gülfem Tuzkaya, Mete Han Topgul, Huseyin Selcuk Kilic
	Evaluation of Supply Chain Analytics Maturity Level with a Hesitant Fuzzy MCDM Technique	Esin Mukul, Merve Güler, Gülçin Büyüközkan
	An Integrated Model with Interval Valued Neutrosophic Sets for the Selection of Lean and Sustainable Suppliers	Ahmet Selçuk Yalçın, Huseyin Selcuk Kilic, Nadide Caglayan

July 24, 2019	Parallel Session 4	
Session Chair	Ramin Vatankhah	
Session Name	Special Session on Intelligent Techniques in Engineering Management	
Session Room	Room Maiden's Tower	
	Paper Title	Authors
10:45-12:15	Parameter Estimation and Fuzzy Controller Design for a Two-axis Gimbal	Roya Jahanandish, Amir Khosravifard, Ramin Vatankhah, Vahid Cheraghi
	A Study on Vulnerability Parameters of Signed Fuzzy Graphs	Sujatha R, R. Sundareswaran, Goksen Bacak Turan
	A Conceptual Study on RPAs as of Intelligent Automation	Özlen Erkal Sönmez, Dilek Yılmaz Börekçi
	Intelligent Systems for Disaster Management: Unmanned Aerial Vehicles' Surveillance Problem with Energy Consumption Constraints	Ebru Angün, Uğurcan Dünder
	Robust Fuzzy Sliding Mode Controller Design for a Multiple Sclerosis Model	Ramin Vatankhah, Elnaz Kohanpour, Mohammad Eghtesad, Sajjad Taghvaei

July 24, 2019	Parallel Session 1	
Session Chair	Basar Oztaysi	
Session Name	Special Session on Real World Applications of Computational Intelligence in Big Data and Business Analytics	
Session Room	Room Topkapı Palace	
	Paper Title	Authors
13:30-15:00	Gender Prediction from Classified Indoor Customer Paths by Fuzzy C-Medoids Clustering	Onur Dogan, Basar Oztaysi
	Solar Radiation Prediction based on Machine Learning for Istanbul in Turkey	Veysel Çoban, Sezi Çevik Onar
	Prediction of Turkish Super League Match Results Using Supervised Machine Learning Techniques	Ahmet Emin Sarıcaoğlu, Abidin Aksoy, Tolga Kaya
	Football Player Value Assessment Using Machine Learning Techniques	Ahmet Talha Yiğit, Barış Samak, Tolga Kaya
	A New Cluster-Aware Regularization of Neural Networks	Tolga Ahmet Kalaycı, Umut Asan, Murat Can Ganiz, Aydın Gerek

July 24, 2019	Parallel Session 2	
Session Chair	Masoud Shayganmehr	
Session Name	Special Session on Data-Driven Decision Making with Uncertainty-I	
Session Room	Room Hagia Sophia	
	Paper Title	Authors
13:30-15:00	A predictive modeling approach to debt collection process	Sezi Cevik Onar, Basar Oztaysi, Cengiz Kahraman, Ersan Öztürk
	Fuzzy Logic Methods in Decision-Making Processes: Application in the Shotgun Sector	Merve Kadan, Gökhan Özkan, Mehmet Hilmi Özdemir, Çiğdem Baskıcı, Yavuz Ercil
	Selecting Strategic Partner for Iranian Official Airline based on Mixed Fuzzy AHP and COPRAS Methods	Masoud Shayganmehr, Gholam Ali Montazer, Kamran Nourianfar
	Suitability Evaluation of Blockchain-Based Systems Using Fuzzy ANP- A Case Study in a Logistics Company	Ayça Maden
	Career Planning with Personality Inventories and Intuitionistic Fuzzy Analytic Hierarchy Process	Şeymanur Kurt, Lale Özbakır

July 24, 2019	Parallel Session 3	
Session Chair	Farzin Piltan	
Session Name	Special session on Fuzzy Extensions and Its Application on Decision Making	
Session Room	Room Galata Tower	
	Paper Title	Authors
13:30-15:00	Evaluation of Social Sustainable Development Factors Using Buckley's Fuzzy AHP Based on Z-numbers	Nurdan Yildiz, Cengiz Kahraman
	Graph Based Anomaly Detection Using Fuzzy Clustering	Çağatay Ateş, Süleyman Özdel, Emin Anarım
	Analysis of Success Factors in Aviation 4.0 using Integrated Intuitionistic Fuzzy MCDM Methods	Gülçin Büyüközkan, Orhan Feyzioğlu, Celal Alpay Havle
	Analysis of e-Government Strategies with Hesitant Fuzzy Linguistic Multi-Criteria Decision Making Techniques	Esin Mukul, Merve Güler, Gülçin Büyüközkan
	Advanced Fuzzy Observer-based Fault Identification for Robot Manipulators	Jong-Myon Kim, Farzin Piltan

July 24, 2019	Parallel Session 4	
Session Chair	Fatih Tüysüz	
Session Name	Special Session on Real World Applications of Computational Intelligence in Big Data and Business Analytics	
Session Room	Room Maiden's Tower	
	Paper Title	Authors
13:30-15:00	Social Media and Clickstream Analysis in Turkish News with Apache Spark	Didem Makaroğlu, Altan Çakır, Koray Kocabaş
	An Evaluation Model for Intelligent Farming Systems: A Fuzzy Logic Based Simulation Approach	Yakup Çelikkilek, Fatih Tüysüz
	Forecasting Box Office Performances Using Machine Learning Algorithms	Sendy Çağlıyor, Başar Öztayşi, Selime Sezgin
	Decomposing the Impact of Sales Promotions on a Large Scale Retailer's Business Performance	Ömer Zeybek, Tolga Kaya, Burç Ülengin, Işıl Öztürk, Yavuz Ercil
	Car Damage Analysis for Insurance Market Using Convolutional Neural Networks	Cihat Tolga Artan, Tolga Kaya

July 24, 2019	Parallel Session 1	
Session Chair	Özlem Şenvar	
Session Name	Special Session on Aggregation functions: recent trends and developments, and applications	
Session Room	Room Topkapı Palace	
	Paper Title	Authors
15:15-16:45	Principals of Spherical Fuzzy sets	Fatma Kutlu Gündoğdu
	Evolution of L-fuzzy contexts associated with criteria	Cristina Alcalde, Ana Burusco
	An Integrated Hesitant Fuzzy Approach to a Job Evaluation and Application in a Food Company	Ahmet Sarucan, Aysel Söğüt
	Project & Analyst & Software Engineer Ranking and Job Assignment Problem Solution in Software Development Projects with Fuzzy Multi Criteria Decision Making Techniques	İbrahim Yel
	Fuzzy Linguistic Integrated Methodology for Sustainable Hospital Building Design	Deniz Uztürk, Alvaro Labella Romero, Gülçin Büyüközkan, Luis Martinez

July 24, 2019	Parallel Session 2	
Session Chair	Cengiz Kahraman	
Session Name	Special Session on Aggregation functions: recent trends and developments, and applications	
Session Room	Room Hagia Sophia	
	Paper Title	Authors
15:15-16:45	Performance Measurement of Debt Collection Firms Using Spherical Fuzzy Aggregation Operators	Cengiz Kahraman, Sezi Cevik Onar , Basar Oztaysi
	Spherical Fuzzy Sets and Decision Making Applications	Fatma Kutlu Gündoğdu, Cengiz Kahraman
	Malcolm Baldrige National Quality Award Assessment Using Interval Valued Pythagorean Fuzzy Sets	Elif Haktanir, Cengiz Kahraman
	On the WABL Defuzzification Method for Intuitionistic Fuzzy Numbers	Ali Mert
	Agile supplier evaluation using a fuzzy decision making procedure based on fuzzy measure and fuzzy integral	Mehtap Dursun, Nazlı Göker, Esra Albayrak

July 24, 2019	Parallel Session 3	
Session Chair	Nihal Erginel	
Session Name	Special Session on Soft Computing Approaches in Data Mining and Text Retrieval: Theories and Applications	
Session Room	Room Galata Tower	
	Paper Title	Authors
15:15-16:45	Combining Classifier Ensembles with fuzzy clustering to predict online food sales	Mahir Oner, Ceren Oner
	Intuitionistic Fuzzy Density Based Spatial Clustering of Applications with Noise: IFDBSCAN	Mustafa Ünver, Nihal Erginel
	DIFACONN-miner II Algorithm to Discover Causes of Quality Defects	Sinem Kulluk, Lale Özbakır
	Exploitation and Comparison of Computational Intelligence Techniques on the Feature Selection Problem	Ali Fuat Alkaya, Gülşah Tarakçı Kalaycı, Ramazan Algın
	A Machine Learning-Based User Authentication Model using Mobile App Data	Yosef Ashibani, Qusay H. Mahmoud

July 24, 2019	Parallel Session 4	
Session Chair	Gülçin Büyüközkan	
Session Name	Special session on Fuzzy Extensions and Its Application on Decision Making	
Session Room	Room Maiden's Tower	
	Paper Title	Authors
15:15-16:45	Pipeline Leak Detection and Estimation Using Fuzzy-Based PI Observer	Jong-Myon Kim, Farzin Piltan
	Extending QFD with Pythagorean Fuzzy Sets for Sustainable Supply Chain Management	Gülçin Büyüközkan, Gizem Çifçi
	Evaluation of Smart Health Technologies with Hesitant Fuzzy MCDM Methods	Esin Mukul, Merve Güler, Gülçin Büyüközkan
	A new community detection algorithm based on fuzzy measures	Inmaculada Gutiérrez, Daniel Gómez, Javier Castro, Rosa Espínola
	Research and Development Project Selection via IF-DEMATEL and IF-TOPSIS	Ahmet Selçuk Yalçın, Huseyin Selcuk Kilic, Ezgi Guler

July 25, 2019	Parallel Session 1	
Session Chair	Serhat Aydın	
Session Name	Special Session on Intuitionistic Fuzzy Decision Making: Theory and Applications	
Session Room	Room Topkapı Palace	
	Paper Title	Authors
9:00- 10:30	Location Selection by Intuitionistic Fuzzy and Neutrosophic Aggregation Operators	Eda Boltürk, Murat Gülbay, Cengiz Kahraman
	Evaluation of logistics service providers with uncertain dynamic intuitionistic fuzzy sets	Serhat Aydın
	A Likelihood Method for The Comparison of Intuitionistic Trapezoidal Fuzzy Numbers	Hatice Ercan Teksen
	Site Selection for Solar Power Plants Using Integrated Two-stage Hybrid Method based on Intuitionistic Fuzzy AHP & COPRAS approach	Sukran Seker
	Make-or-Buy Decision Using Interval-Valued Intuitionistic Fuzzy COPRAS Method	Elif Haktanir

July 25, 2019	Parallel Session 2	
Session Chair	Cengiz Kahraman	
Session Name	Special session on Fuzzy sets in sustainable energy and environment	
Session Room	Room Hagia Sophia	
	Paper Title	Authors
9:00-10:30	An intuitionistic fuzzy axiomatic design approach for the evaluation of solid waste disposal methods	Selçuk Çebi, Esra İlbahar, Cengiz Kahraman
	Assessment of renewable energy alternatives with Pythagorean fuzzy WASPAS method: A case study of Turkey	Esra İlbahar, Selçuk Çebi, Cengiz Kahraman
	Pythagorean Fuzzy AHP Method for the Selection of the Most Appropriate Clean Energy Technology	Ali Karaşan, Cengiz Kahraman, Fatma Kutlu Gündoğdu
	Spherical Fuzzy VIKOR Method and Its Application to Waste Management	Fatma Kutlu Gündoğdu, Cengiz Kahraman, Ali Karaşan
	AS/RS Technology Selection using Spherical Fuzzy TOPSIS and Neutrosophic TOPSIS	Eda Boltürk

July 25, 2019	Parallel Session 3	
Session Chair	İhsan Kaya	
Session Name	Special Session on Fuzzy Sets Application in Defense Industry	
Session Room	Room Galata Tower	
	Paper Title	Authors
9:00-10:30	Neutrosophic TOPSIS Method for Technology Evaluation of Unmanned Aerial Vehicles (UAVs)	Ali Karaşan, İhsan Kaya
	Risk Analysis of the Autonomous Vehicle Driving Systems by Using Pythagorean Fuzzy AHP	Melike Erdoğan, İhsan Kaya, Ali Karaşan, Ayşenur Budak
	Evaluating Blockchain Risks by Using a MCDM Methodology Based on Pythagorean Fuzzy Sets	Betül Özkan, İhsan Kaya, Ali Karaşan, Melike Erdoğan
	A Fuzzy Based MCDM Methodology for Risk Evaluation of Cyber Security Technologies	Melike Erdoğan, İhsan Kaya, Ali Karaşan, Ayşenur Budak, Murat Çolak
	Evaluation of Defense Strategies by Using A MCDM Methodology Based On Neutrosophic Sets: A Case Study for Turkey	Betül Özkan, İhsan Kaya, Ali Karaşan, Melike Erdoğan, Murat Çolak

July 25, 2019	Parallel Session 4	
Session Chair	Sezi Cevik Onar	
Session Name	Special Session on Intelligent Techniques in Engineering Management	
Session Room	Room Maiden's Tower	
	Paper Title	Authors
9:00-10:30	Innovative Teaching Feedback System Design Using Hesitant Fuzzy AHP Approach	Basar Oztaysi, Sezi Cevik Onar, Cengiz Kahraman
	Smart Meter Selection Using Pythagorean Fuzzy Analytic Hierarchy Process	Mehmet Yörükoğlu, Serhat Aydın
	An Intelligent Feature Selection Method for Finding Rough Set Reducts Based on Tug of War Optimization Algorithm	Numan Çelebi, Esin Ayşe Zaimoğlu, Nilüfer Yurtay
	Evaluation of Entrepreneurial Support Projects by Using IFS Type-2 Fuzzy Sets	Sezi Cevik Onar, Başar Öztayşi, Cengiz Kahraman
	Evaluation of User Preference Criteria on Smart Technologies for Smart Buildings	Irem Ucal Sari, Doruk Karlikaya

July 25, 2019	Parallel Session 1	
Session Chair	Serhat Aydın	
Session Name	Special session on Fuzzy Extensions and Its Application on Decision Making	
Session Room	Room Topkapı Palace	
	Paper Title	Authors
10:45-12:15	A new ranking method for triangular intuitionistic fuzzy numbers	Gültekin Atalık, Sevil Senturk
	An Intuitionistic Fuzzy Cognitive Map Approach to Evaluate Success Factors of Lean Six Sigma Project Management Methodology	Nazli Goker, Mehtap Dursun, Hakan Mutlu
	Some Topological Indices in Fuzzy Graphs	Shriram K, Sujatha Ramalingam, Sundareswaran Raman, Narasimman Srinivasan
	Supplier Selection with Intuitionistic Fuzzy AHP and Goal Programming	Ömer Özkan, Serhat Aydın
	Design Factors for Sustainable University Campus Via Interval Type 2 Fuzzy Set	Sema Kayapınar Kaya, Nihal Erginel

July 25, 2019	Parallel Session 2	
Session Chair	A. Cagri Tolga	
Session Name	Special Session on Intelligent and Fuzzy Systems in Business and Economics	
Session Room	Room Hagia Sophia	
	Paper Title	Authors
10:45-12:15	Evaluating Innovation Projects in Air Cargo Sector with Fuzzy COPRAS	A. Cagri Tolga, Gül Durak
	Energy Management Maturity Model Based on Fuzzy Logic	Veysel Çoban, Sezi Çevik Onar
	Fuzzy Evaluation of a New Search Engine Project to Fundraise NGOs	Irem Ucal Sari, Duygu Sergi , Can Aytore
	A Methodology Proposal for Supplier Performance Evaluation: Fuzzy DEMATEL Method with Sustainability Integrated SCOR Model	Sinem Buyuksaatci Kiris, Dilek Yılmaz Börekçi, Tuğçe Koç,
	Fuzzy AHP-QFD methodology and its application to Retail Chain	Sukran Seker

July 25, 2019	Parallel Session 3	
Session Chair	Selçuk Çebi	
Session Name	Special Session on Intelligent Systems for Risk Analysis under Uncertainties	
Session Room	Room Galata Tower	
	Paper Title	Authors
10:45-12:15	Risk Mitigation in Conference Tourism Service Supply Chains	Saliha Karadayi-Usta
	Failure Mode and Effect Analysis Using Interval Valued Neutrosophic Sets	Elif Haktanir, Cengiz Kahraman
	A risk assessment approach using both stochastic data and subjective judgments	Nurdan Ece Oz, Muhammet Gul, Faruk Serin, Erkan Celik, Suleyman Mete
	Human Reliability Analysis in Healthcare: A Scenario Analysis	Yesim Kop Naskalı, Tuncay Gürbüz, Y. Esra Albayrak
	A Hybrid Risk Assessment Method for Mining Sector Based on QFD, Fuzzy Logic and AHP	Selçuk Çebi, Ulaş Çınar

July 25, 2019	Parallel Session 4	
Session Chair	Sezi Cevik Onar	
Session Name	Special Session on Intelligent Techniques in Engineering Management	
Session Room	Room Maiden's Tower	
	Paper Title	Authors
10:45-12:15	Weighting Performance Indicators of Debt Collection Offices By Using Hesitant Fuzzy AHP	Basar Oztaysi, Mustafa Yücel, Sezi Cevik Onar, Ersan Öztürk, Cengiz Kahraman
	Multi-criteria & multi-expert wind power farm location selection using a Pythagorean Fuzzy Analytic Hierarchy Process	Irem Otay, Miguel Jaller
	Dynamic Intuitionistic Fuzzy Multi Attribute Decision Making for CNC Router Selection	Mehmet Kabak, Ahmet Aktas, Serhat Aydın
	Diagnosis of Heart Disease Using An Intelligent Method: A Hybrid ANN – GA Approach	Özlen Erkal Sönmez, Miray Akgül, Tuncay Özcan
	Design and Implementation of Adaptive Fuzzy PD Line Following Robot	Anıl Sezgin, Ömer Çetin

9:45-10:30	<i>Speech of Prof. Janusz Kacprzyk on "Bipolar models for a more realistic representation and processing of human judgments, intentions and preferences: a role of fuzzy logic"</i> <i>Amphi Dolmabahçe Palace</i> <i>Chair Cengiz Kahraman</i>
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8:45-9:30

Speech of Prof. Vicenc Torra on "Fuzzy sets in clustering: on fuzzy partitions"

Amphi Dolmabahçe Palace

Chair Sezi Cevik Onar

9:45-10:30

Speech of Prof. Oscar Castillo on "Nature-inspired optimization of type-2 fuzzy logic controllers"

Amphi Dolmabahçe Palace

Chair Sezi Cevik Onar

