

Program

DAY 1 - July 23, 2019 Tuesday

08.45	
09.00	Coffee Break
09.45	Keynote Speaker Prof. Janusz Kacprzak
10.30	Coffee Break
10.45	Session 1 (1A, 1B, 1C, 1D)
12.00	
12.15	Lunch
13.30	Session 2 (2A, 2B, 2C, 2D)
15.00	Coffee Break
15.15	Session 3 (3A, 3B, 3C, 3D)
16.45	Infus Family Photo
17.00	Welcome Coctail & Opening Ceremony

DAY 2 - July 24, 2019 Wednesday

Keynote Speaker Prof. Vicenç Torra
Coffee Break
Keynote Speaker Prof. Oscar Castillo
Coffee Break
Session 1 (1A, 1B, 1C, 1D)
Lunch
Session 2 (2A, 2B, 2C, 2D)
Coffee Break
Session 3 (3A, 3B, 3C, 3D)
Award Ceremony
Gala Dinner

DAY 3 - July 25, 2019 Thursday

Coffee Break	08.45
Session 1 (1A, 1B, 1C, 1D)	09.00
Coffee Break	09.30
Session 2 (2A, 2B, 2C, 2D)	09.45
Lunch&Closing	10.30
	10.45
	12.15
	13.30
Touristic Tour	14.00
	15.00
	15.15
	16.45
	17.00
	18.00
	18.30
	19.00
	19.00
	23.00

10.45 – 12.15

1A Soft Models in Probability and Statistics

Chair Özlem Şenvar
Room Topkapı Palace

Sales Forecasting by Artificial Neural Networks for the Apparel Retail Chain Stores
Şule İtir Satoğlu, Nadide Çağlayan, 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

1B Intelligent Systems for Risk Analysis under Uncertainty

Chair Nihal Erginel
Room Hagia Sophia

C2C E-Commerce Fuzzy Risk Analysis with Buyer Perspective
Saliha Karadayı Usta

A Fuzzy Based Risk Assessment Model with a Real Case Study
Selin Aslantaş, 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
Yıldız Köse, Ayşe Nur Karabayır, Emre Çevikcan

Machine Criticality Level Assignment with Fuzzy Inference System for RCM
Hülya Torun, Serkan Çetinkaya

1C Fuzzy Extensions and Its Applications on Decision Making

Chair Lazim Abdullah
Room Galata Tower

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. Çağrı Tolga, Berkan Gamsız, Murat Başar

1D Fuzzy Extensions and Its Applications on Decision Making

Chair Gulfem Tuzkaya
Room Maiden's Tower

A Fuzzy MCDM Approach for Project Selection Criteria Prioritization in a Big-Four Company: Evidences from Turkey Consultancy Sector
Tuğçe Beldek, Aziz Kemal Konyalioğlu, 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, Gökhan Çaybaşı, Fethullah Göçer

13.30 – 15.00

2A Real World Applications of Computational Intelligence in Big Data and Business Analytics

Chair: Oussama Masmoudi
Room: Topkapı Palace

Partitioning the Time of Day for Bus Schedule Optimization
Seda Yanik, 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 Hüsnüye Namlı Dağ, Seda Yanik

A simultaneous lot-sizing and scheduling problem with energetic aspects
Oussama Masmoudi, Alice Yalaoui, Yassine Ouazene, Hicham Chehade, Farouk Yalaoui

2B Intelligent and Fuzzy Systems in Business and Economics

Chair Çiğdem Kadaifçi
Room Hagia Sophia

Improvement of the Simulation Model for High Accuracy Leaf Spring Test Bench by Implementing Fuzzy Logic
Elif Üstünişik, 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
Çiğdem Kadaifçi, 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 Katircioğlu, Emel Kızılkaya Aydoğan, Mihrimah Özmen, Esra Akgül

2C Fuzzy Extensions and Its Applications on Decision Making

Chair Gülçin Büyükozkcan
Room Galata Tower

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 Büyükozkcan

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 Büyükozkcan, Orhan Feyzioğlu

2D Intelligent Solution Methods for Supply Chain Problem

Chair Gulfem Tuzkaya
Room Maiden's Tower

An Interpretive Structural Fuzzy Analysis for CPFR Implementation Barriers: A Food Supply Chain Case Study
Saliha Karadayı 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 Tuğçe Kalender, Hüseyin Selçuk Kılıç, Büşra Gülnihan Daşçıoğlu

Supplier Selection in a Construction Company Using Fuzzy AHP and Fuzzy TOPSIS
Ayşe Nur Karabayır, Ahmet Reha Botsalı, Yıldız Köse, Emre Çevikcan

Supplier Selection Using Fuzzy Analytic Network Process
Bahar Sennaroğlu, Orhan Akıcı

15.15 – 16.45

3A Real World Applications of Computational Intelligence in Big Data and Business Analytics

Chair Başar Öztayşi
Room Topkapı Palace

Click and Sales Prediction for Digital Advertisements: Real World Application for OTAs
Ahmet Tezcan Tekin, Ferhan Çebi

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

3B Intelligent and Fuzzy Systems in Business and Economics

Chair Issam Kouatli
Room Hagia Sophia

Design Factors for Sustainable University Campus Via Interval Type 2 Fuzzy Set
Sema Kayapınar Kaya, Nihal Erginel

A Proposed Service Level Improvement Methodology for Public Transportation Using Interval Type-2 Fuzzy EDAS Based On Customer Satisfaction Data
Murat Levent Demircan, Suzan Tunç

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

3C Fuzzy Extensions and Its Applications on Decision Making

Chair Alvaro Labella Romero
Room Galata Tower

An integrated Interval-Valued Neutrosophic AHP & TOPSIS Methodology for Sustainable Cities' Challenges
Ali Karaşan, Cengiz Kahraman, Eda Boltürk

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 Martinez

An Integrated Balanced Scorecard &Fuzzy BOCR Decision Model for Performance Evaluation
Kübra Karabece, Tuncay Gürbüz

3D Data-Driven Decision Making with Uncertainty-II

Chair Özlem Şenvar
Room Maiden's Tower

Customer Segmentation Method Determination Using Neutrosophic Sets
Cengiz Kahraman, Başar Öztayşi , Sezi Cevik Onar

A Fuzzy Neural Tree for the Evaluation of Shape in an Architectural Design
Michael S. Bittermann, Ecenur Yavuz, Özer Çiftçioğlu

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 Kıraç

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

10.45 – 12.15

1A Real World Applications of Computational Intelligence in Big Data and Business Analytics

Chair Altan Çakır
Room Topkapı Palace

Process Mining Application for Analysis of Customer's Different Visits in a Shopping Mall
Onur Doğan, Carlos Fernandez Llatas, Başar Öztayşi

A fuzzy base classifier for fuzzy data included location segmentation
Sultan Ceren Öner, Başar Öztayşi

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, İbrahim E. Yazıcı

An Empirical Analysis of Swarm Intelligence Techniques on ATM Cash Withdrawal Forecasting
Ali Fuat Alkaya, Esmâ Danacı, Onur Gürkan Gültekin

1B Intelligent and Fuzzy Systems in Business and Economics

Chair Dorota Kuchta
Room Hagia Sophia

Measuring the Performance of Factoring and Financial Leasing Firms Under Balanced Scorecard Perspective Using Pythagorean Fuzzy Sets
Ezgi Demir, Çağlar Karamaşa, Serpil Altınırnak, 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
Özgür Yanmaz, Cafer Erhan Bozdağ, Çiğdem Kadaifçi

1C Intelligent Solution Methods for Supply Chain Problem

Chair İlke Bereketli Zafeirakopoulos
Room Galata Tower

Healthcare Service Provider Type Selection of the Medical Tourists by Using Neutrosophic Sets
Saliha Karadayı Usta, Cafer Erhan Bozdağ

Evaluation of Small Household Appliances' Collection Method with fuzzy MCDM approach: A Case of Turkey
Aziz Kemal Konyaloğlu, İlke Bereketli Zafeirakopoulos

Supply Chain Greenness Assessment Based on Intuitionistic Fuzzy Approaches
Gülfem Tuzkaya, Mete Han Topgöl, Hüseyin Selçuk Kılıç

Evaluation of Supply Chain Analytics Maturity Level with a Hesitant Fuzzy MCDM Technique
Esin Mukul, Merve Güler, Gülçin Büyükozkın

An Integrated Model with Interval Valued Neutrosophic Sets for the Selection of Lean and Sustainable Suppliers
Ahmet Selçuk Yalçın, Hüseyin Selçuk Kılıç, Nadide Çağlayan

1D Intelligent Techniques in Engineering Management

Chair Ramin Vatankhah
Room Maiden's Tower

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, Gökşen 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 Dündar

Robust Fuzzy Sliding Mode Controller Design for a Multiple Sclerosis Model
Ramin Vatankhah, Elnaz Kohanpour, Mohammad Eghthesad, Sajjad Taghvaei

Day 2 Session 2

July 24, 2019

13.30 – 15.00

2A Real World Applications of Computational Intelligence in Big Data and Business Analytics

Chair Başar Öztayşi
Room Topkapı Palace

Gender Prediction from Classified Indoor Customer Paths by Fuzzy C-Medoids Clustering
Onur Doğan, Başar Öztayşi

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

2B Data-Driven Decision Making with Uncertainty-I

Chair Masoud Shayganmehr
Room Hagia Sophia

A predictive modeling approach to debt collection process
Sezi Çevik Onar, Başar Öztayşi, 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

2C Fuzzy Extensions and Its Application on Decision Making

Chair Farzin Piltan
Room Galata Tower

Evaluation of Social Sustainable Development Factors Using Buckley's Fuzzy AHP Based on Z-numbers
Nurdan Yıldız, 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 Büyükoğuzkan, Orhan Feyzioğlu, Celal Alpay Havle

Analysis of e-Government Strategies with Hesitant Fuzzy Linguistic Multi-Criteria Decision Making Techniques
Esin Mukul, Merve Güler, Gülçin Büyükoğuzkan

Advanced Fuzzy Observer-based Fault Identification for Robot Manipulators
Jong-Myon Kim, Farzin Piltan

2D Real World Applications of Computational Intelligence in Big Data and Business Analytics

Chair Fatih Tüysüz
Room Maiden's Tower

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 Çelikbilek, Fatih Tüysüz

Forecasting Box Office Performances Using Machine Learning Algorithms
Sandy 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

15.15 – 16.45

3A Aggregation functions: recent trends and developments, and applications

Chair: Alvaro Labella Romero
Room: Topkapı Palace

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
Ibrahim Yel

Fuzzy Linguistic Integrated Methodology for Sustainable Hospital Building Design
Deniz Uztürk, Alvaro Labella Romero, Gülçin Büyükoğuzkan, Luis Martinez

3B Aggregation functions: recent trends and developments, and applications

Chair: Cengiz Kahraman
Room: Hagia Sophia

Performance Measurement of Debt Collection Firms Using Spherical Fuzzy Aggregation Operators
Cengiz Kahraman, Sezi Çevik Onar, Başar Öztaysi

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

3C Soft Computing Approaches in Data Mining and Text Retrieval: Theories and Applications

Chair: Nihal Erginel
Room Galata Tower

Combining Classifier Ensembles with fuzzy clustering to predict online food sales
Mahir Öner, Ceren Öner

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 Algin

A Machine Learning-Based User Authentication Model using Mobile App Data
Yusef Ashibani, Qusay H. Mahmoud

3D Fuzzy Extensions and Its Applications on Decision Making

Chair: Gülçin Büyükoğuzkan
Room Maiden's Tower

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 Büyükoğuzkan, Gizem Çifçi

Evaluation of Smart Health Technologies with Hesitant Fuzzy MCDM Methods
Esin Mukul, Merve Güler, Gülçin Büyükoğuzkan

A new community detection algorithm based on fuzzy measures
Inmaculada Gutiérrez, Daniel Gomez, Javier Castro, Rosa Espinola

Research and Development Project Selection via IF-DEMATEL and IF-TOPSIS
Ahmet Selçuk Yalçın, Hüseyin Selçuk Kılıç, Ezgi Güler

09.00 – 10.30

1A Intuitionistic Fuzzy Decision Making: Theory and Applications

Chair: Serhat Aydın
Room: Topkapı Palace

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
Şükran Şeker

Make-or-Buy Decision Using Interval-Valued Intuitionistic Fuzzy COPRAS Method
Elif Haktanır

1B Fuzzy sets in sustainable energy and environment

Chair: Cengiz Kahraman
Room: Hagia Sophia

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

1C Fuzzy Sets Applications in Defence Industry

Chair: İhsan Kaya
Room Galata Tower

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

1D Intelligent Techniques in Engineering Management

Chair: Sezi Çevik Onar
Room Maiden's Tower

Innovative Teaching Feedback System Design Using Hesitant Fuzzy AHP Approach
Başar Öztayşi, Sezi Çevik 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 Çevik Onar, Başar Öztayşi, Cengiz Kahraman

Evaluation of User Preference Criteria on Smart Technologies for Smart Buildings
İrem Ucal Sarı, Doruk Karlıkaya

10.45 – 12.15

2A Fuzzy Extensions and Its Applications on Decision Making

Chair: Serhat Aydın
Room: Topkapı Palace

A new ranking method for triangular intuitionistic fuzzy numbers
Gültekin Atalk, Sevil Şenturk

An Intuitionistic Fuzzy Cognitive Map Approach to Evaluate Success Factors of Lean Six Sigma Project Management Methodology
Nazlı Göker, 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

2B Intelligent and Fuzzy Systems in Business and Economics

Chair: A. Çağrı Tolga
Room: Hagia Sophia

Evaluating Innovation Projects in Air Cargo Sector with Fuzzy COPRAS
A. Çağrı 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
İrem Ucal Sarı, Duygu Sergi, Can Aytöre

A Methodology Proposal for Supplier Performance Evaluation: Fuzzy DEMATEL Method with Sustainability Integrated SCOR Model
Sinem Büyüksaatçi Kiriş, Dilek Yılmaz Börekçi, Tuğçe Koç

Fuzzy AHP-QFD methodology and its application to Retail Chain
Şükran Şeker

2C Intelligent Systems for Risk Analysis under Uncertainty

Chair: Selçuk Çebi
Room Galata Tower

Risk Mitigation in Conference Tourism Service Supply Chains
Saliha Karadayı Usta

Failure Mode and Effect Analysis Using Interval Valued Neutrosophic Sets
Elif Haktanır, Cengiz Kahraman

A risk assessment approach using both stochastic data and subjective judgments
Nurdan Ece Öz, Muhammet Gül, Faruk Serin, Erkan Çelik, Süleyman 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

2D Intelligent Techniques in Engineering Management

Chair: Sezi Çevik Onar
Room Maiden's Tower

Weighting Performance Indicators of Debt Collection Offices By Using Hesitant Fuzzy AHP
Başar Öztayşi, Mustafa Yücel, Sezi Çevik Onar, Ersan Öztürk, Cengiz Kahraman

Multi-criteria & multi-expert wind power farm location selection using a Pythagorean Fuzzy Analytic Hierarchy Process
İrem Otay, Miguel Jaller

Dynamic Intuitionistic Fuzzy Multi Attribute Decision Making for CNC Router Selection
Mehmet Kabak, Ahmet Aktaş, 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