

July 21, 2020 (DAY 1)

UTC+3 09:30-10:00	Opening Ceremony Meeting ID: 953 9222 4464		https://itu-edu-tr.zoom.us/j/95392224464
UTC+3 10:00-10:45	INVITED SPEAKERS	Speech of Prof. Ahmet Fahri Özok on "Mathematical Philosophy, Probability and Fuzzy Logic"	Session Chair: Basar Oztaysi Meeting ID: 953 9222 4464
UTC+3 10:50-11:35		Speech of Prof. Krassimir Atanassov "Circular Intuitionistic Fuzzy Sets "	Session Chair: A. Cagri Tolga Meeting ID: 953 9222 4464
UTC+3 11:40-12:25		Speech of Prof. Vicenc Torra on "Fuzzy meets privacy: a short overview"	Session Chair: Irem Ucal Sari Meeting ID: 953 9222 4464
UTC+3 12:30-13:15		Speech of Prof. Janusz Kacprzyk "Towards explainable artificial intelligence (XAI): can fuzzy linguistic data summaries help?"	Session Chair: Sezi Cevik Onar Meeting ID: 953 9222 4464
UTC+3 13:15-13:30	A visit to Izmir: video display - Lunch Break Meeting ID: 953 9222 4464		https://itu-edu-tr.zoom.us/j/95392224464
July 21, 2020 (DAY 1) Parallel Session 1			
UTC+3 13:30-15:00	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Meeting ID: 779 494 7951
	Session Name	SS2.1 CLUSTERING	https://itu-edu-tr.zoom.us/j/7794947951
		Paper Title	Authors
		Estimating Breathing Levels of Asthma Patients with Artificial Intelligence Methods	Asım Sinan Yüksel and Fatma Gülşah Tan
		Basket Patterns in Turkey: A Clustering of FMCG Baskets Using Consumer Panel Data	Tolga Kaya, Ahmet Talha Yiğit and Utku Doğruak
		Segmentation Analysis of Companies' Natural Gas Consumption by Soft Clustering	Onur Dogan
	A Survey on Spherical Fuzzy Sets and Clustering the Literature	Eren Ozceylan, Barış Özkan, Mehmet Kabak and Metin Dağdeviren	
July 21, 2020 (DAY 1) Parallel Session 2			
UTC+3 13:30-15:00	Session Chair	Irem Otay-Eda Bolturk (irem.otay@bilgi.edu.tr, bolturk@itu.edu.tr)	Meeting ID: 844 4134 2455
	Session Name	SS3.1 PICTURE FUZZY SETS AND SPHERICAL FUZZY SETS	https://us02web.zoom.us/j/84441342455?pwd=L0hSV1VlSmpYbi95Rnh2L00xZzcrdz09
		Paper Title	Authors
		Evaluating Sustainable Vehicle Technologies for Freight Transportation using Spherical Fuzzy AHP & TOPSIS	Miguel Jaller and Irem Otay
		Simple Additive Weighting and Weighted Product Methods Using Picture Fuzzy Sets	Fatma Kutlu Gündoğdu and Eda Bolturk
		A Framework for Selection of the Best Food Waste Management Alternative by A Spherical Fuzzy AHP Based Approach	Aysu Melis Buyuk and Gul Tekin Temur
	Picture Fuzzy Linear Assignment Method and Its Application to Selection of Pest House Location	Fatma Kutlu Gündoğdu	
July 21, 2020 (DAY 1) Parallel Session 3			
UTC+3 13:30-15:00	Session Chair	Sezi Cevik Onar-Veyssel Coban (sezi@outlook.com, veysselcoban42@hotmail.com)	Meeting ID: 801 031 3222
	Session Name	SS4.1 ESTIMATION & PREDICTION	https://us02web.zoom.us/j/8010313222
		Paper Title	Authors
		Estimating Shopping Center Visitor Numbers Based on Various Environmental Indicators	Cagatay Ozdemir, Sezi Cevik Onar and Selami Bagriyanik
		Predicting Customers' Next-to-Be Purchased Products	Buse Mert, Defne İdil Eskioçak and Işıl Öztürk
		Neural Fuzzy Inference Hybrid System with Support Vector Machine for Identification of False Singling in Stock Market Pr	Bhupinder Singh and Santosh Kumar Henge
	Predicting Likelihood to Purchase of Users for E-commerce	Cağlar İcer, Deniz Parmaksız and Altan Cakir	

July 21, 2020 (DAY 1) Parallel Session 4

UTC+3 13:30-15:00	Session Chair	Cengiz Kahraman-Ali Karasan (kahramanc@itu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: 968 3248 8148
	Session Name	SS18.1 OPTIMIZATION	https://itu-edu-tr.zoom.us/j/96832488148
		Paper Title	Authors
		Intelligent Planning of Spatial Analysis Process Based on Contexts	Stanislav Belyakov, Alexander Bozhenyuk, Janusz Kacprzyk and Igor Rozenberg
		Hybrid Krill Herd Algorithm with Particle Swarm Optimization for Image Enhancement	Elnaz Pashaei, Elham Pashaei and Nizamettin Aydin
		A Bioinspired Algorithm for Improving the Effectiveness of Knowledge Processing	Ilona Kursitys, Yury Kravchenko, Elmar Kuliev and Alexandr Natskevich
	Finding the Optimal Features Reduct, A Hybrid Model of Rough Set and Polar Bear Optimization	Amer Mirkhan and Numan Çelebi	
	Using GA for Locating Post-Disaster Field Hospitals: The Case of Istanbul	Yesim Komurcu and Seda Yanik	

COFFEE BREAK

July 21, 2020 (DAY 1) Parallel Session 1

UTC+3 15:15-16:45	Session Chair	Irem Otay-Eda Bolturk (irem.otay@bilgi.edu.tr, bolturk@itu.edu.tr)	Meeting ID: 816 6174 2833
	Session Name	SS9.1 MULTICRITERIA DECISION MAKING-APPLICATIONS	https://us02web.zoom.us/j/81661742833?pwd=N3ZMaFhaQVVuMjQwc3lvc0kxditvZz09
		Paper Title	Authors
		Special Agriculture Production Selection Using Interval Type-2 Fuzzy AHP	Sarper Alem
		Resilience Measurement System: A Fuzzy Approach	Merve Kadan, Gökhan Özkan, Mehmet Hilmi Özdemir
	Road Selection for Autonomous Trucks in Turkey with Fuzzy AHP	Zeynep Hasgul and Can Aytore	
	Multi-criteria Oil Station Location Evaluation Using Spherical AHP&WASPAS: A Real-Life Case Study	Irem Otay and Serhat Atik	

July 21, 2020 (DAY 1) Parallel Session 2

UTC+3 15:15-16:45	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Meeting ID: 779 494 7951
	Session Name	SS11.1 INTELLIGENT STATISTICAL ANALYSES	https://itu-edu-tr.zoom.us/j/7794947951
		Paper Title	Authors
		Congestion trajectories using Fuzzy Gaussian travel time based on mesoscopic and cellular automata traffic model	Azedine Boulmakoul, Lamia Karim, Mohamed Nahri and Ahmed Lbath
		Enabling Big Data Analytics at Manufacturing Fields of Farplas Automotive	Özgün Akin, Halil Faruk Deniz, Doğukan Nefis, Alp Kızıltan, Altan Çakır
	Intuitionistic Fuzzy Analysis of Variance of Movie Ticket Sales	Velichka Traneva and Stoyan Tranev	
	Surface Roughness Prediction using ANFIS and Validation with Advanced Regression Algorithms	Vinod Kumar M A	

July 21, 2020 (DAY 1) Parallel Session 3

UTC+3 15:15-16:45	Session Chair	Irem Ucal Sari-Fatma Kutlu Gündoğdu (ucal@itu.edu.tr, fatmakutlugundogdu@gmail.com)	Meeting ID: 239 193 3173
	Session Name	SS12.1 NETWORKS	https://itu-edu-tr.zoom.us/j/2391933173
		Paper Title	Authors
		Improving Customer Experience for an Internet Service Provider: A Neural Networks Approach	Özge H. Namlı, Seda Yanık, N. Serap Şengör, Faranak Nouri, Yusuf Mertkan Koyuncu and İrem Küçükali
		Segmentation of Larynx Histopathology Images via Convolutional Neural Networks	Ahmet Haşim Yurttakal and Hasan Erbay
	A Deep Learning Model for Skin Lesion Analysis using Gaussian Adversarial Networks	Fatih Ergin and Burak Parlak	
	Understanding the behavior of Zadeh's extension principle for one-to-one functions by R programming language	Abbas Parchami and Parisa Khalilpoor	

July 21, 2020 (DAY 1) Parallel Session 4

UTC+3 15:15-16:45	Session Chair	Cengiz Kahraman-Ali Karasan (kahramanc@itu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: 998 7612 9014
	Session Name	SS13.1 INTELLIGENT LEARNING	https://itu-edu-tr.zoom.us/j/99876129014
		Paper Title	Authors
		Using formal concept analysis tools in road environment-type detection	Azedine Boulmakoul, Zoltan Fazekas, Lamia Karim, Ghyslane Cherradi and Peter Gaspar
		An Intelligent Overtaking Assistant System for Autonomous Vehicles	Ersin Armağan and Tufan Kumbasar
	Machine Learning Approach for Automatic Categorization of Service Support Requests on University Information Manager	Aytuğ Onan, Erdem Atik and Adnan Yalçın	
	Usage of Machine Learning Algorithms for Flow Based Anomaly Detection System in Software Defined Networks	Muhammet Fatih Akbaş, Cengiz Güngör and Enis Karaarslan	

July 22, 2020 (DAY 2)

July 22, 2020 (DAY 2) Parallel Session 1

UTC+3 10:00-11:30	Session Chair	Cengiz Kahraman-Ali Karasan (kahramanc@itu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: 983 9258 1162
	Session Name	SS9.2 MULTICRITERIA DECISION MAKING-APPLICATIONS	https://itu-edu-tr.zoom.us/j/98392581162
		Paper Title	Authors
		Managing Cultural Built Heritage in Smart Cities Using Fuzzy and Interval Multi-Criteria Decision Making	Mimica Milošević, Dušan Milošević and Ana Stanojević
		Modeling Humanoid Robots Mimics Using Intuitionistic Fuzzy Sets	Cengiz Kahraman, Sezi Cevik Onar, Basar Oztaysi, Irem Otay
	A Proposed Decision Making Methodology to Select IT Suppliers for Software Development Outsourcing in Banking Sector	Murat Levent Demircan and Algi Acarbay	
	Smart System Evaluation in Vertical Farming via Fuzzy WEDBA Method	Murat Basar and A. Cagri Tolga	

July 22, 2020 (DAY 2) Parallel Session 2

UTC+3 10:00-11:30	Session Chair	Sukran Seker-Elif Haktanir (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: 433 056 9006
	Session Name	SS11.2 INTELLIGENT STATISTICAL ANALYSES	https://us02web.zoom.us/j/4330569006
		Paper Title	Authors
		Cloud Based Big Data DNS Analytics Applications at TurkNet	Altan Cakir, Yousef Alkhanafseh, Esra Karabiyik, Erhan Kurubas, Burcu Bunyak and Cenk Anil Bahcevan
		A Combined Bioinspired Algorithm for Big Data Processing	Elmar Kuliev, Dmitry Zaporozhets, Yury Kravchenko and Ilona Kursitys
	Exploration of the Waves of Feminism Using Sentiment Based Text Mining Techniques	H. Umutcan Ay, Nazlı Günesen and Tolga Kaya	
	Modeling Urban Traffic by Means of Traffic Density Data: Istanbul Case	Tutku Tuncalı Yaman, Hülya Başeğmez Sezer and Emrah Sezer	

July 22, 2020 (DAY 2) Parallel Session 3

UTC+3 10:00-11:30	Session Chair	Irem Otay-Eda Bolturk (irem.otay@bilgi.edu.tr, bolturk@itu.edu.tr)	Meeting ID: 873 4346 4584
	Session Name	SS12.2 NETWORKS	https://us02web.zoom.us/j/87343464584?pwd=bnFieHMvWWM3aTYzMFk0T2JldU9vdz09
		Paper Title	Authors
		Marketing Strategy Selection Using Fuzzy Analytic Network Process	Serhan Hamal, Bahar Sennaroglu and Mahmure Övül Arıoğlu
		Learning Channel-wise Ordered Aggregations in Deep Neural Networks	Iris Dominguez-Catena, Daniel Paternain and Mikel Galar
	Design of Nano-scale synaptic neural network using RRAM	Ali Mohamed and Osama Rayis	
	Forecasting the day-ahead prices in electricity spot market of Turkey by using artificial neural networks	Berna Tektaş, Aygülen Kayahan Karakul and Rozi Mizrahi.	

July 22, 2020 (DAY 2) Parallel Session 4

UTC+3 10:00-11:30	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Meeting ID: 779 494 7951
	Session Name	SS13.2 INTELLIGENT LEARNING	https://itu-edu-tr.zoom.us/j/7794947951
		Paper Title	Authors
		Classification of Breast DCE-MRI Images via Boosting and Deep Learning Based Stacking Ensemble Approach	Ahmet Haşim Yurttakal, Hasan Erbay, Türkan İkizceli, Seyhan Karaçavuş and Cenker Biçer
		Predicting Movie Ratings with Machine Learning Algorithms	Sendi Çağlıyor and Başar Öztaysi
	Comparative Study of Different Machine Learning Models for Remote Sensing Bathymetric Inversion	Shen Wei , Ji Qian , Rao Yali and Meng Ran	
	Container Terminal Workload Modeling Using Machine Learning Techniques	Üstün Atak, Tolga Kaya and Yasin Arslanoğlu	

July 22, 2020 (DAY 2) Parallel Session 5

UTC+3 10:00-11:30	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: 751 159 7929
	Session Name	SS18.2 OPTIMIZATION	https://us02web.zoom.us/j/7511597929
		Paper Title	Authors
		Optimization of Spatial-Time Planning Resource Allocation under Uncertainty	Olesiya Kosenko, Alexander Bozhenyuk, Stanislav Belyakov and Margarita Knyazeva
		Solving Fuzzy Multi-Objective Linear Programming Problems Using Multi Player Zero Sum Game	Gizem Temelcan, Inci Albayrak, Hale Gonçe Kocken and Mustafa Sivri
	A Revised Weighted Fuzzy C-means and Center of Gravity Algorithm for Probabilistic Demand and Customer Positions	Engin Bayturk, Sakir Esnaf and Tarik Kucukdeniz	
	Mobile Application Based Automatic Caption Generation for Visually Impaired	Özkan Çaylı, Burak Makav, Volkan Kılıç and Aytuğ Onan	

COFFEE BREAK

July 22, 2020 (DAY 2) Parallel Session 1			
UTC+3 11:45-13:15	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Meeting ID: 779 494 7951
	Session Name	SS2.2 CLUSTERING	https://itu-edu-tr.zoom.us/j/7794947951
		Paper Title	Authors
		Segmentation of Retail Consumers with Soft Clustering Approach	Onur Dogan, Abdulkadir Hiziroglu and Omer Fauk Seymen
		Journey Segmentation of Turkish Tobacco Users Using Sequence Clustering Techniques	Ahmet Talha Yiğit, Tolga Kaya and Utku Doğruak
		Comparison of Fuzzy C-Means and K-Means Clustering Performance: An Application on Household Budget Survey Data	Songul Cinaroglu
	A Hybrid Approach for Clustering and Selecting of Cloud Services based on User Preferences Evaluation	Ouassila Hioual , Ouided Hioual and Sofiane Mounine Hemam	
July 22, 2020 (DAY 2) Parallel Session 2			
UTC+3 11:45-13:15	Session Chair	Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: 433 056 9006
	Session Name	SS14.1 FUZZY ANALYTICS	https://us02web.zoom.us/j/4330569006
		Paper Title	Authors
		Fuzzy analytics of spaces' dynamic use in smart buildings	Azedine Boulmakoul, Abdellah Daissaoui, Ahmed Lbath and Lamia Karim
		Fuzzy System for Building Energy Flows Management	Penka V. Georgieva
		A New Perspective to Design Phase of Water Supply Systems from Aspect of Water Demand Using Fuzzy Automation	Halid Akdemir, Aysegul Alaybeyoglu and Ali Danandeh Mehr
	Fuzzy Classifier based Colorimetric Quantification Using a Smartphone	Öykü Berfin Mercan and Volkan Kılıç	
July 22, 2020 (DAY 2) Parallel Session 3			
UTC+3 11:45-13:15	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: 751 159 7929
	Session Name	SS4.2 ESTIMATION & PREDICTION	https://us02web.zoom.us/j/7511597929
		Paper Title	Authors
		The problem of selection with the fuzzy axiomatic design of MEMS based sensors in industry 4.0 predictive maintenance p	Arif Sercan Erez, Mehmet Cakmakci and Rasin Imrenci
		Fuzzy Based Noise Removal, Age Group and Gender Prediction with CNN	Ali Tunç, Şakir Taşdemir and Murat Köklü
		Click Prediction in Digital Advertisements: A Fuzzy Approach to Model Selection	Ahmet Tezcan Tekin, Tolga Kaya and Ferhan Cebi
	Estimation of potential locations of trade objects on the basis of fuzzy set theory	Alekperov Ramiz Balashirin oglu and Salahli Vuqar Mamadali oglu	
July 22, 2020 (DAY 2) Parallel Session 4			
UTC+3 11:45-13:15	Session Chair	Sezi Cevik Onar-Veyssel Coban (sezi@outlook.com, veysselcoban42@hotmail.com)	Meeting ID: 801 031 3222
	Session Name	SS8.1 PYTHAGOREAN FUZZY SETS & Q-RUNG ORTHOPAIR FUZZY SETS	https://us02web.zoom.us/j/8010313222
		Paper Title	Authors
		Emergency Decision Making Problem of Power Cut in Turkey using Pythagorean Fuzzy Thermodynamic Approach with Pr	Veyssel Çoban and Sezi Cevik Onar
		Extension of Classical Analytic Hierarchy Process using q-Rung Orthopair Fuzzy Sets and its Application to Disaster Logisti	Seyed Amin Seyfi Shishavan, Yaser Donyatalab and Elmira Farrokhizadeh
		Interval valued q-rung orthopair fuzzy prioritized dual Muirhead mean operator and their application in group decision m	Salih Berkan Aydemir and Sevcan Yilmaz Gündüz
	Evaluation of maintenance strategies using Pythagorean Fuzzy TOPSIS Method	Tolga Gedikli, Beyzanur Çayır Ervural and Durmuş Tayyar Şen	
July 22, 2020 (DAY 2) Parallel Session 5			
UTC+3 11:45-13:15	Session Chair	A. Cagri Tolga-Fatma Kutlu Gündoğdu (ctolga@gsu.edu.tr, fatmakutlugundogdu@gmail.com)	Meeting ID: 845 901 5054
	Session Name	SS18.3 OPTIMIZATION	https://us02web.zoom.us/j/8459015054
		Paper Title	Authors
		A Comparative Performance Analysis of Consensus Models based on a Minimum Cost Consensus Metric	Álvaro Labella, Rosa M. Rodríguez and Luis Martínez
		Chaos Control of BLDC Motor via Fuzzy Based PID Controller	Alkım Gökçen, Mehmet Uğur Soydemir and Savas Şahin
		Design and Manufacture a Vehicle Auxiliary System Model Controlled by Using Smartphone	Nguyen Phu Thuong Luu
	On Merrifield-Simmons Index of Trees	Bünyamin Şahin	

UTC+3 13:15-13:30		A visit to Izmir: video display - Lunch Break Meeting ID: 845 901 5054		https://us02web.zoom.us/j/8459015054	
July 22, 2020 (DAY 2) Parallel Session 1					
UTC+3 13:30-15:00	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)		Meeting ID: 751 159 7929	
	Session Name	SS9.3 MULTICRITERIA DECISION MAKING-APPLICATIONS		https://us02web.zoom.us/j/7511597929	
		Paper Title	Authors		
		Investigating Enablers to improve transparency in Sustainable food supply chain using F-BWM	Anish Kumar, Sachin Kumar Mangla, Pradeep Kumar and Yasanur Kayikci		
		Logistics Performance Index (LPI) analysis with using AHP and FuzzyAHP	Emir Şahin, İrem Pala and Berrin Denizhan		
		Sustainable Transportation Service Provider Evaluation Using Fuzzy MCDM Procedure	Mehtap Dursun and Ergun Ari		
	Evaluation of Criteria that Affect the Sustainability of Smart Supply Chain in a Textile Firm by Fuzzy SWARA Method	Arzu Organ, Kevser Arman and Ali Katrancı			
July 22, 2020 (DAY 2) Parallel Session 2					
UTC+3 13:30-15:00	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)		Meeting ID: 779 494 7951	
	Session Name	SS11.3 INTELLIGENT STATISTICAL ANALYSES		https://itu-edu-tr.zoom.us/j/7794947951	
		Paper Title	Authors		
		Data Mining Algorithms for Classification Model of Engineering Grade	Ching-Lung Fan		
		SVM-Based Hybrid Robust PIO Fault Diagnosis for Bearing	Farzin Piltan and Jong-Myon Kim		
		Realising Newspaper Sales by Using Statistic Methods	Onur Dogan and Omer Faruk Gurcan		
	Blended Environment of Naive Bayes and Support Vector Machine (SVM) for designing Simulation based E-Learning Respi	Anuradha Verma Babbar, Santosh Kumar Henge			
July 22, 2020 (DAY 2) Parallel Session 3					
UTC+3 13:30-15:00	Session Chair	A. Cagri Tolga-Fatma Kutlu Gündoğdu (ctolga@gsu.edu.tr, fatmakutlugundogdu@gmail.com)		Meeting ID: 845 901 5054	
	Session Name	SS12.3 NETWORKS		https://us02web.zoom.us/j/8459015054	
		Paper Title	Authors		
		Fuzzy Centrality Analysis for Smart City Trajectories	Lamia Karim, Azedine Boulmakoul, Ghyzlane Cherradi andAhmed Lbath		
		Glioma Brain Tumor Grade Classification from MRI Using Convolutional Neural Networks Designed by Modified FA	Timea Bezdán, Miodrag Zivkovic, Eva Tuba, Ivana Strumberger, Nebojsa Bacanin and Milan Tuba		
		Dynamic System Control Using Z-number Based Fuzzy Neural Network	Rahib H. Abiyev		
	Comprehensive Research of The Commodity Market: Theoretical, Methodological and Modern Approaches Using Neural N	Mikayilova Rena Nuru Kizi			
July 22, 2020 (DAY 2) Parallel Session 4					
UTC+3 13:30-15:00	Session Chair	Sezi Cevik Onar-Veyssel Coban (sezi@outlook.com, veysselcoban42@hotmail.com)		Meeting ID: 801 031 3222	
	Session Name	SS13.3 INTELLIGENT LEARNING		https://us02web.zoom.us/j/8010313222	
		Paper Title	Authors		
		Efficient and Real-Time Face Recognition Based on Single Shot Multibox Detector	Youngshin Ahn, Sumi Kim, Fei Chen and Jaeho Choi		
		Machine Learning-Based Robust Feedback Observer for Fault Diagnosis in Bearing	Farzin Piltan and Jong-Myon Kim		
		Malfunction Detection on Production Line Using Machine Learning: Case Study in Wood Industry	Kağan Özgün, Sami Aklan, Ahmet Tezcan Tekin and Ferhan Cebi		
	A Compromise-Based New Approach to Learning Fuzzy Cognitive Maps	Mirac Murat and Umut Asan			
July 22, 2020 (DAY 2) Parallel Session 5					
UTC+3 13:30-15:00	Session Chair	Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)		Meeting ID: 433 056 9006	
	Session Name	SS18.5 OPTIMIZATION		https://us02web.zoom.us/j/4330569006	
		Paper Title	Authors		
		Sustainability oriented scheduling procedure for public projects	Dorota Kuchta and Ewa Marchwicka		
		Order acceptance scheduling on a single machine with energy aspects	Mariam Bouzid, Oussama Masmoudi and Alice Yalaoui		
		Multi-Shift Single-Vehicle Routing Problem under Fuzzy Uncertainty	Francesco Nucci		
	Application of Fuzzy Logic Model For Correct Lighting in Computer Aided Interior Design Areas	Rahib Imamguluyev			
COFFEE BREAK					

July 22, 2020 (DAY 2) Parallel Session 1			
UTC+3 15:15-16:45	Session Chair	Irem Otay-Eda Bolturk (irem.otay@bilgi.edu.tr, bolturk@itu.edu.tr)	Meeting ID: 886 4776 1021
	Session Name	SS8.2 PYTHAGOREAN FUZZY SETS & Q-RUNG ORTHOPAIR FUZZY SETS	https://us02web.zoom.us/j/88647761021?pwd=SjY0NVNDOFdNeldWN1h5Y29icjhaUT09
		Paper Title	Authors
		Multi-criteria Cloud Computing Service Provider Selection Employing Pythagorean Fuzzy AHP&VIKOR	Irem Otay and Tugba Yildiz
		Evaluating the influencing factors on adoption of self-driving vehicles by using Interval-valued Pythagorean fuzzy AHP	Gozde Bakioglu and Ali Osman Atahan
		Hamacher Aggregation Operators Based on Interval-Valued q-Rung Orthopair Fuzzy Sets and Their Applications to Decision Making	Yaser Donyatalab, Elmira Farrokhzadeh, Seyed Amin Seyfi Shishavan and Seyed Hadi Seifi
	The Dice (Sorensen) Similarity Measures for Optimal Selection with q-Rung Orthopair Fuzzy Information	Elmira Farrokhzadeh, Seyed Amin Seyfi Shishavan, Yaser Donyatalab and Sohrab Abdollahzadeh	
July 22, 2020 (DAY 2) Parallel Session 2			
UTC+3 15:15-16:45	Session Chair	Cengiz Kahraman-Ali Karasan (kahramanc@itu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: 917 9927 8693
	Session Name	SS10.1 MULTICRITERIA DECISION MAKING-THEORY	https://itu-edu-tr.zoom.us/j/91799278693
		Paper Title	Authors
		An Integrated Fuzzy DEMATEL & Fuzzy Cognitive Mapping Methodology for Prioritizing Smart Campus Investments	Ali Karasan and Cengiz Kahraman
		Different Approaches to Fuzzy Extension of an MCDA Method and Their Comparison	Boris Yatsalo and Alexander Korobov
		An Alternative Approach for Performance Evaluation: Plithogenic Sets and DEA	Gülin Zeynep Öztaş, Esra Aytaç Adalı, Ayşegül Tuş, Tayfun Öztaş and Abdullah Özçil
	Preference-oriented Fuzzy TOPSIS method	Alicja Mieszkowicz-Rolka and Leszek Rolka	
July 22, 2020 (DAY 2) Parallel Session 3			
UTC+3 15:15-16:45	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Meeting ID: 779 494 7951
	Session Name	SS3.2 PICTURE FUZZY SETS AND SPHERICAL FUZZY SETS	https://itu-edu-tr.zoom.us/j/7794947951
		Paper Title	Authors
		Using Spherical Fuzzy AHP Based Approach For Prioritization of Criteria Affecting Sustainable Supplier Selection	Yagmur Unal and Gul Temur
		A Fuzzy Pricing Model For Mobile Advertisements By Using Spherical Fuzzy AHP Scoring	Basar Oztaysi, Sezi Cevik Onar, Cengiz Kahraman
		Evaluating Strategic Entry Decisions Using Spherical Fuzzy Sets	Sezi Cevik Onar, Cengiz Kahraman and Basar Oztaysi
	Spherical Fuzzy Cost/Benefit Analysis of Wind Energy Investments	Sezi Cevik Onar, Basar Oztaysi and Cengiz Kahraman	
July 22, 2020 (DAY 2) Parallel Session 4			
UTC+3 15:15-16:45	Session Chair	Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: 433 056 9006
	Session Name	SS18.4 OPTIMIZATION	https://us02web.zoom.us/j/4330569006
		Paper Title	Authors
		Spatial Coherence Radius of Plane Wave Propagating in Anisotropic Maritime Atmospheric Turbulence	Bing Guan, Fei Chen, Jaeho Choi
		Pedestrian Detection Based on Improved Mask R-CNN Algorithm	Wenjun Yu, Sumi Kim, Fei Chen, Jaeho Choi
		Double edge-vertex domination	Bünyamin Şahin and Abdulgani Şahin
	A Study on Vehicle Air Condition System Model Controlled by Using Smartphone	Nguyen Phu Thuong Luu	
July 22, 2020 (DAY 2) Parallel Session 5			
UTC+3 15:15-16:45	Session Chair	Irem Ucal Sari-Fatma Kutlu Gündoğdu (ucal@itu.edu.tr, fatmakutlugundogdu@gmail.com)	Meeting ID: 239 193 3173
	Session Name	SS14.4 FUZZY ANALYTICS	https://itu-edu-tr.zoom.us/j/2391933173
		Paper Title	Authors
		An Intelligent Decision Support System: Application of Fuzzy Tools and System Dynamics Modelling	Merve Kadan, Gökhan Özkan and Mehmet Hilmi Özdemir
		Fuzzy Cognitive Map Based PI Controller Design	Aykut Denizci, Sinan Karadeniz and Cenk Ulu
		Center-of-Gravity Real Options Method Based on Interval-Valued Fuzzy Numbers	Jani Kinnunen, Irina Georgescu and Mikael Collan
	Intuitionistic Fuzzy Z-numbers	Irem Ucal Sari and Cengiz Kahraman	

July 23, 2020 (DAY 3)

July 23, 2020 (DAY 3) Parallel Session 1

UTC+3 10:00-11:30	Session Chair	A. Cagri Tolga-Fatma Kutlu Gündoğdu (ctolga@gsu.edu.tr, fatmakutlugundogdu@gmail.com)	Meeting ID: 845 901 5054
	Session Name	SS9.4 MULTICRITERIA DECISION MAKING-APPLICATIONS	https://us02web.zoom.us/j/8459015054
		Paper Title	Authors
		Process Robot Automation Selection with MADM in Airline Cargo Sector	Gul Durak and A. Cagri Tolga
		Analysis of Traffic Accidents to Identify Factors Affecting Injury Severity with Fuzzy and Crisp Techniques	Tutku Yaman, Emrah Bilgiç and M. Fevzi Esen
	InterCriteria Analysis Applied to Emerging Europe and Central Asia University Rankings	Veselina Bureva	
	Determining significant factors affecting vaccine demand and factor relationships using Fuzzy DEMATEL Method	İkbal Ece Dizbay and Ömer Öztürkoğlu	

July 23, 2020 (DAY 3) Parallel Session 2

UTC+3 10:00-11:30	Session Chair	Irem Ucal Sari-Elif Haktanır (ucal@itu.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: 239 193 3173
	Session Name	SS11.4 INTELLIGENT STATISTICAL ANALYSES	https://itu-edu-tr.zoom.us/j/2391933173
		Paper Title	Authors
		A Fuzzy Strategy Analysis Simulator for Exploring The Potential of Industry 4.0 in End of Life Aircraft Recycling	Samira Keivanpour
		Knowledge Data Discovery (Frequent Pattern Growth): The Association Rules for Evergreen Activities on Computer Monit	Fauzan Asrin, Saide Saide, Silvia Ratna and Alex Wenda
	Extensions of Fuzzy Sets in Big Data Applications: A literature Review	Nursah Alkan and Cengiz Kahraman	
	InterCriteria Analysis of public health data in Bulgaria	Evdokia Sotirova, Valentin Vasilev, Sotir Sotirov and Hristo Bozov	

July 23, 2020 (DAY 3) Parallel Session 3

UTC+3 10:00-11:30	Session Chair	Sezi Cevik Onar-Veyssel Coban (sezi@outlook.com, veysselcoban42@hotmail.com)	Meeting ID: 801 031 3222
	Session Name	SS12.4 NETWORKS	https://us02web.zoom.us/j/8010313222
		Paper Title	Authors
		The Maximum Lexicographic Contraflow Finding in a Fuzzy Dynamic Network	Evgeniya Gerasimenko and Vladimir Kurechik
		An Enhanced Particle Swarm Optimization with Levy Flight for RBF Neural Network in Typical Karst Area, South China	Zhangjun Cao, Dong Wang, Lachun Wang
	A Method for Forecasting the Demand for Pharmaceutical Products in A Distributed Pharmacy Network Based on An Integ	Alekperov Ramiz Balashirin oglu and Isgandarova Ilhama Tarlan kizi	
	Neural Network-Based Control Framework for SISO Uncertain System: Passive Fault Tolerant Approach	Sejal Raval, Himanshukumar R. Patel and Vipul A. Shah	

July 23, 2020 (DAY 3) Parallel Session 4

UTC+3 10:00-11:30	Session Chair	Irem Otay-Eda Bolturk (irem.otay@bilgi.edu.tr, bolturk@itu.edu.tr)	Meeting ID: 846 1856 1059
	Session Name	SS13.4 INTELLIGENT LEARNING	https://us02web.zoom.us/j/84618561059?pwd=SS9MN1NZRWx4K1pjbNzLVHvYTczdz09
		Paper Title	Authors
		Trajectory Tracking of a Quadcopter Using Adaptive Neuro-Fuzzy Controller with Sliding Mode Learning Algorithm	Hasan Kemik, Mehmet Berkin Dal and Yeşim Öniç
		Influencer Identification System Design Using Machine Learning Techniques	Elvira Israfilova, Armağan Arslan, Nihan Yıldırım and Tolga Kaya
	Sentiment Analysis on Students' Evaluation of Higher Educational Institutions	Mansur Alp Toçoğlu and Aytuğ Onan	
	Speech Analysis with Deep Learning to Determine Speech Therapy for Learning Difficulties	Nogol Memari, Saranaz Abdollahi, Sonia Khodabakhsh, Saeideh Rezaei, Mehrdad Moghbel	

July 23, 2020 (DAY 3) Parallel Session 5

UTC+3 10:00-11:30	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: 751 159 7929
	Session Name	SS15.1 RISK ASSESSMENT	https://us02web.zoom.us/j/7511597929
		Paper Title	Authors
		Risk assessment of R&D activities using intuitionistic fuzzy AHP and FIS	Esra Ilbahar, Selcuk Cebi and Cengiz Kahraman
		Risk Matrix Technique based Fuzzy MCDM Risk Assessment Method and Application in Glass Industry	Sukran Seker
	A new Risk Assessment Approach for Occupational Health and Safety Applications	Selcuk Cebi	
	A New Approach to Analyze Perceived Design Quality of Mobile Phone Using Fuzzy Hierarchical Conjoint Analysis	Yusra Erdem, Selcuk Cebi and Esra Ilbahar	

COFFEE BREAK

July 23, 2020 (DAY 3) Parallel Session 1			
UTC+3 11:45-13:15	Session Chair	Irem Ucal Sari-Esra Ilbahar (ucal@itu.edu.tr, esrailbahar@gmail.com)	Meeting ID: 239 193 3173
	Session Name	SS6.1 NEUTROSOPHIC SETS	https://itu-edu-tr.zoom.us/j/2391933173
		Paper Title	Authors
		Evaluation of the Fourth Party Logistics Provider under Neutrosophic Environment	Serhat Aydın, Mehmet Yörükoğlu and Mehmet Kabak
		A* Algorithm Under Single-Valued Neutrosophic Fuzzy Environment	Esra Çakir and Ziya Ulukan
	Bipolar Neutrosophic Fuzzy Dijkstra Algorithm and Its Application	Esra Çakir and Ziya Ulukan	
	Physician Selection with a Neutrosophic Multi-Criteria Decision Making Method	Ahmet Sarucan, M. Emin Baysal and Orhan Engin	
July 23, 2020 (DAY 3) Parallel Session 2			
UTC+3 11:45-13:15	Session Chair	A. Cagri Tolga-Fatma Kutlu Gündoğdu (ctolga@gsu.edu.tr, fatmakutlugundogdu@gmail.com)	Meeting ID: 845 901 5054
	Session Name	SS7.1 INTUITIONISTIC FUZZY SETS	https://us02web.zoom.us/j/8459015054
		Paper Title	Authors
		The Method of Finding the Base Set of Intuitionistic Fuzzy Graph	Alexander Bozhenyuk, Stanislav Belyakov, Janusz Kacprzyk and Margarita Knyazeva
		An Intuitionist Fuzzy Method for discovering Organizational Structures that Support Digital Transformation	Zineb Besri and Azedine Boulmakoul
		Distance and Similarity Measures of Generalized Intuitionistic Fuzzy Soft Set and its Applications in Decision Support Systems	Muhammad Jabir Khan and Poom Kumam
	Interval-Valued Intuitionistic Fuzzy Sets With Gaussian Membership Function: A Novel Extension	Janani Bharatraj	
	An Integrated IVIF-DEMATEL and IVIF-TOPSIS Methodology for Hotel Information System Selection	Gizem Erkal, Hüseyin Selçuk Kılıç, Zeynep Tuğçe Kalender, Ahmet Selçuk Yalçın and Gülfem Tuzkaya	
July 23, 2020 (DAY 3) Parallel Session 3			
UTC+3 11:45-13:15	Session Chair	Sezi Cevik Onar-Veyssel Coban (sezi@outlook.com, veysselcoban42@hotmail.com)	Meeting ID: 801 031 3222
	Session Name	SS5.1 HESITANT FUZZY SETS	https://us02web.zoom.us/j/8010313222
		Paper Title	Authors
		Webpage Design Based on Generation Differences Using Hesitant Fuzzy Sets	M.Çağrı Budak and Sezi Çevik Onar
		Application of linear programming model in multiple criteria decision making under the framework of interval-valued hesitant fuzzy sets	Tabasam Rashid and M. Sarwar Sindhu
	Solar Energy Power Plant Investment Selection with Unbalanced Hesitant Fuzzy Linguistic MULTIMOORA method based on hesitant fuzzy sets	Veyssel Çoban and Sezi Cevik Onar	
	A Hesitant Fuzzy Linguistic Group Decision Making Model for Energy Storage Unit Selection	Ahmet Aktas and Mehmet Kabak	
July 23, 2020 (DAY 3) Parallel Session 4			
UTC+3 11:45-13:15	Session Chair	Sukran Seker-Elif Haktanir (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: 433 056 9006
	Session Name	SS10.2 MULTICRITERIA DECISION MAKING-THEORY	https://us02web.zoom.us/j/4330569006
		Paper Title	Authors
		Multi-Objective Task Scheduling in Cloud Computing Environment by Hybridized Bat Algorithm	Timea Bezdán, Miodrag Zivkovic, Eva Tuba, Ivana Strumberger, Nebojsa Bacanin and Milan Tuba
		Qualitative factors in the Fuzzy Earned Value method	Dorota Kuchta
	The Novel Integrated model of Plithogenic Sets and MAIRCA Method for MCDM Problems	Abdullah Özçil, Ayşegül Tuş, Gülin Zeynep Öztaş, Esra Aytaç Adalı and Tayfun Öztaş	
	Multi-criteria Decision Making Problem with Intuitionistic Fuzzy Sets: A Novel Ranking Method	Hatice Ercan Teksen	
July 23, 2020 (DAY 3) Parallel Session 5			
UTC+3 11:45-13:15	Session Chair	Cengiz Kahraman-Ali Karasan (kahramanc@itu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: 931 0442 4905
	Session Name	SS14.2 FUZZY ANALYTICS	https://itu-edu-tr.zoom.us/j/93104424905
		Paper Title	Authors
		Object monitoring under Z-information based on rating points	Olga Poleshchuk
		A New Structure of Nullnorms on Bounded Lattices	Gül Deniz Çaylı
	On 2-Fuzzy Metric Spaces	Elif Güner and Halis Aygün	
	Some Properties of Partial Fuzzy Metric Topology	Ebru Aydoğdu, Başak Aldemir, Elif Güner and Halis Aygün	
UTC+3 13:15-13:30	A visit to Izmir: video display - Lunch Break		Meeting ID: 931 0442 4905 https://itu-edu-tr.zoom.us/j/93104424905

July 23, 2020 (DAY 3) Parallel Session 1			
UTC+3 13:30-15:00	Session Chair	Cengiz Kahraman-Ali Karasan (kahramanc@itu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: 984 4520 1993
	Session Name	SS9.5 MULTICRITERIA DECISION MAKING-APPLICATIONS	https://itu-edu-tr.zoom.us/j/98445201993
		Paper Title	Authors
		Blockchain Software Selection for a Maritime Organization with MCDM Method	Melis Kaska and A. Cagri Tolga
		Prioritization of Influence Factors for Selecting E-Learning Systems	Ali Karasan and Melike Erdogan
		Development of Assessment Model for Selection of Sustainable Energy Source in India: Hybrid fuzzy MCDM approach	Santosh Saraswat, Abhijeet Digalwar and Shyam Sunder Yadav
	Green Supplier Selection Using Intuitionistic Fuzzy AHP and TOPSIS Methods: A Case Study from the Paper Mills	Ezgi Demir and Gözde Koca	
	Criteria Weighting for Blockchain Software Selection Using Fuzzy AHP	Ferhat Karayazi and Ilke Bereketli Zafeirakopoulos	
July 23, 2020 (DAY 3) Parallel Session 2			
UTC+3 13:30-15:00	Session Chair	A. Cagri Tolga-Fatma Kutlu Gündoğdu (ctolga@gsu.edu.tr, fatmakutlugundogdu@gmail.com)	Meeting ID: 845 901 5054
	Session Name	SS7.2 INTUITIONISTIC FUZZY SETS	https://us02web.zoom.us/j/8459015054
		Paper Title	Authors
		Intuitionistic Fuzzy Assessments of the Abdominal Aorta and Its Branches	Valetin Vasilev, Evdokia Sotirova, Krassimir Atanassov and Sotir Sotirov
		Understanding the Blockchain Technology Adoption from Procurement Professionals' Perspective- An Analysis of The Tec	Ayça Maden and Emre Alptekin
		Decision Making Using New Distances of intuitionistic fuzzy sets and study Their Application in the Universities	Shuker Mahmood Khalil and Mohanad Abdulkareem Hasan Hasab
	Some new ordered semi-linear spaces of intuitionistic fuzzy processes and the pair of closely related states.	Phu Nguyen Dinh, Hung Nguyen Nhut and Quynh Le Thi Ngoc	
July 23, 2020 (DAY 3) Parallel Session 3			
UTC+3 13:30-15:00	Session Chair	Irem Ucal Sari-Irem Otay (ucal@itu.edu.tr, irem.otay@bilgi.edu.tr)	Meeting ID: 239 193 3173
	Session Name	SS8.3 PYTHAGOREAN FUZZY SETS & Q-RUNG ORTHOPAIR FUZZY SETS	https://itu-edu-tr.zoom.us/j/2391933173
		Paper Title	Authors
		Interval Valued q-Rung Orthopair Fuzzy EDAS Method and its application to Supplier Selection	Elmira Farrokhzadeh, Seyed Amin Seyfi Shishavan, Yaser Donyatalab and Seyyed Hadi Seifi
		Similarity Measures of q-Rung Orthopair Fuzzy Sets Based on Square Root Cosine Similarity Function	Yaser Donyatalab, Elmira Farrokhzadeh and Seyed Amin Seyfi Shishavan
		Fuzzy Capital Budgeting using Fermatean Fuzzy Sets	Duygu Sergi and Irem Ucal Sari
	Technology Selection of Indoor Location Systems Using Interval Valued Type-2 Intuitionistic Fuzzy WASPAS	Basar Oztaysi, Sezi Cevik Onar and Cengiz Kahraman	
July 23, 2020 (DAY 3) Parallel Session 4			
UTC+3 13:30-15:00	Session Chair	Sukran Seker-Elif Haktanir (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: 433 056 9006
	Session Name	SS16.1 INTELLIGENT QUALITY	https://us02web.zoom.us/j/4330569006
		Paper Title	Authors
		Analytical techniques to compute Cp and Cpm capability indices by R software	Abbas Parchami
		Defects Control Charts Using Interval-Valued Pentagorean Fuzzy Sets	Elif Haktanir and Cengiz Kahraman
		Fuzzy AHP Based Prioritization and Taxonomy of Information Quality Factors in Accounting Information Systems	Rozi Mizrahi, Berna Tektaş and Aygülen Kayahan Karakul
	Design for Six Sigma and Process Capability Using Pentagorean Fuzzy Sets	Elif Haktanir and Cengiz Kahraman	
July 23, 2020 (DAY 3) Parallel Session 5			
UTC+3 13:30-15:00	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: 751 159 7929
	Session Name	SS15.2 RISK ASSESSMENT	https://us02web.zoom.us/j/7511597929
		Paper Title	Authors
		Benchmarking and visualization of the ergonomic risks in a manufacturing plant: Joint application of Fuzzy AHP and treen	Samira Keivanpour
		Intuitionistic Fuzzy Group Decision Making on Risk Assessment and Control Efficiency of Accounting Information Systems	Aygülen Karakul, Rozi Mizrahi and Berna Tektaş
		Evaluation of Occupational Safety Risk in Underground Mining Using Fuzzy Bayesian Network	Fatma Yaşlı and Bersam Bolat
	Risk Analysis for Digitalization Oriented Sustainable Supply Chain Using Interval-Valued Pythagorean fuzzy AHP	Nurşah Alkan	
COFFEE BREAK			

July 23, 2020 (DAY 3) Parallel Session 1			
UTC+3 15:15-16:45	Session Chair	Irem Ucal Sari-Sukran Seker (ucal@itu.edu.tr, sseker@yildiz.edu.tr)	Meeting ID: 239 193 3173
	Session Name	SS18.6 OPTIMIZATION	https://itu-edu-tr.zoom.us/j/2391933173
		Paper Title	Authors
		Optimization of an Oil Refinery Valuation System through the Intuitionistic Fuzzy InterCriteria Analysis	Velichka Traneva and Stoyan Tranev
		The Analysis of Human Oriented System of Weighted Fuzzy Petri Nets for Passenger Transport Logistics Problem	Zbigniew Suraj, Oksana Olar and Yurii Bloskho
	Concepts and Methods of "Digital Twins" Models Creation in Industrial Asset Performance Management Systems	Nodirbek Yusupbekov, Fakhritdin Abdurasulov, Farukh Adilov and Arsen Ivanyan	
	A Fuzzy Goal Programming Model to Evaluate Green Energy Alternatives	Beyzanur Çayır Ervural	
July 23, 2020 (DAY 3) Parallel Session 2			
UTC+3 15:15-16:45	Session Chair	Sezi Cevik Onar-Veyssel Coban (sezi@outlook.com, veysselcoban42@hotmail.com)	Meeting ID: 801 031 3222
	Session Name	SS11.5 INTELLIGENT STATISTICAL ANALYSES	https://us02web.zoom.us/j/8010313222
		Paper Title	Authors
		Big Data Analytics Framework for Smart City Real-time Fuzzy Complex Event Processing	Basmi Wadii, Azedine Boulmakoul, Lamia Karim and Ahmed Lbath
		A Big Data Semantic Driven Context Aware Recommendation Method	Manuel J. Barranco, Pedro J. Sánchez, Jorge Castro and Raciél Yera
	A Case Study on Vehicle Battery Manufacturing using Fuzzy Analysis of variance	Abbas Parchami, Mashaallah Mashinchi and Cengiz Kahraman	
	New suggestion for fuzzy random variable and its statistical simulation	Abbas Parchami	
July 23, 2020 (DAY 3) Parallel Session 3			
UTC+3 15:15-16:45	Session Chair	A. Cagri Tolga-Fatma Kutlu Gündoğdu (ctolga@gsu.edu.tr, fatmakutlugundogdu@gmail.com)	Meeting ID: 845 901 5054
	Session Name	SS14.3 FUZZY ANALYTICS	https://us02web.zoom.us/j/8459015054
		Paper Title	Authors
		Fuzzy uncertainty modelling in cost and cash flow forecasting in project management	Dorota Kuchta and Adam Zabor
		Fuzzy RFM Analysis: An application in E-commerce.	Basar Oztaysi and Mert Kavi
	LabHub: A New Generation Architecture Proposal for Intelligent Healthcare Medical Laboratories	Bengi Tugcu Idemen, Emine Sezer and Murat Osman Unalir	
	Fusing fuzzy preferences in contexts of Social Choice: Towards a topological structure	María Jesús Campión, Esteban Induráin and Armajac Raventós Pujol	
July 23, 2020 (DAY 3) Parallel Session 4			
UTC+3 15:15-16:45	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: 751 159 7929
	Session Name	SS17.1 HEURISTICS	https://us02web.zoom.us/j/7511597929
		Paper Title	Authors
		Proposal of genetic algorithm approach for solving single machine scheduling problem under learning effect	Derya Deliktas and Mustafa Urhan
		Distributed Fuzzy Permutation Flow Shop Scheduling Problem: A Bee Colony Algorithm	M. Emin Baysal, Ahmet Sarucan, Kadir Büyüközkan and Orhan Engin
	Fuzzy Metaheuristics: A state-of-the-art review	Nurşah Alkan and Cengiz Kahraman	
	Fuzzy and Evolutionary Algorithms for Transport Logistics under Uncertainty	Yuriy Kondratenko, Galyna Kondratenko, Ievgen Sidenko and Mykyta Taranov	
July 23, 2020 (DAY 3) Parallel Session 5			
UTC+3 15:15-16:45	Session Chair	Irem Otay-Eda Bolturk (irem.otay@bilgi.edu.tr, bolturk@itu.edu.tr)	Meeting ID: 856 2850 1790
	Session Name	SS19.1 REVIEW AND DISCUSSION PAPERS	https://us02web.zoom.us/j/85628501790?pwd=SkNNc2ovU2FtU1FJR0c3UGJTb1ZlZQT09
		Paper Title	Authors
		Extensions of Ordinary Fuzzy Sets: a Comparative Literature Review	Cengiz Kahraman, Basar Oztaysi, Irem Otay, Sezi Cevik Onar
		Systematic Literature Review for Work Sampling with IOT Technology in Retail Store Operations	Gizem Omeroglu, Abdullah Ertug, Aysegul Ozkavukcu
	Engineering Economics Using Fuzzy Sets: A Literature Review	Eda Bolturk	
	Scientific Cooperation in The Field of Economics in Selected European Countries	Paweł Lula, Urszula Cieraszewska, Monika Hamerska	
UTC+3 17:00-17:45	AWARD CEREMONY SESSION Meeting ID: 950 2046 3852		https://itu-edu-tr.zoom.us/j/95020463852