	Aug. 24, 2021 (DAY 1)		
UTC+3 10:00-10:40	Opening Ceremony Meeting ID: to be announced		
UTC+3			el operators over intuitionistic fuzzy sets"
10:50-11:35		Session Chair: Prof. Sezi Cevik Onar	Meeting ID:
UTC+3	INVITED	Speech of Prof. Ajith Abraham "Industry 4.0 and Society 5.0: Role of	
11:40-12:25	SPEAKERS	Session Chair: Prof. Selcuk Cebi	Meeting ID:
UTC+3		Speech of Prof. Janusz Kacprzyk "Towards more realistic fu	,
12:30-13:15		reflecting human cognit	rive biases"
		Session Chair: Assoc. Prof. Irem Ucal Sari	Meeting ID:
UTC+3 13:15-13:30		A visit to Izmir: video display - Lunch Bro	eak
		Aug. 24, 2021 (DAY 1) Parallel Session 1	
	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Meeting ID: to be announced
	Session Name	SS1.1 Fuzzy Clustering	
4476.2		Paper Title	Authors
UTC+3 13:30-15:00	A Digital Twin-bas	ed Approach for the Fault Diagnosis of a Bearing	Farzin Piltan Dunya Moradi, Reza Eyvazpour, Seyed Amir Tabatabaei Hosseini, Yaser
		ysis of Claustrophobia questionnaire data in Iranian male and female educated populations	Donyatalab, Fariborz Rahimi
		ach to Order Picking Time Prediction Using Fuzzy Clustering and ANN	Özgür Kabak, Nurullah Güleç
	A Comparative Ana	alysis of Fuzzy C-Means, K-Means, and K-Medoids Clustering Algorithms for Analysis Countries' COVID- Aug. 24, 2021 (DAY 1) Parallel Session 2	Omer Nedim Kenger, Eren Ozceylan
	Session Chair	A. Cagri Tolga-Ali Karasan (ctolga@gsu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: to be announced
	Session Name	SS2.1 Fuzzy Financial and Economic Analysis	meeting 1D, to be unnounced
		Paper Title	Authors
UTC+3	Fuzzy Matrix Aggre	egate Calculator (MAC) as a Tool For Economic Systems Express Evaluation	Zinaida Abdoulaeva, Aleksei Nedosekin, Mikhail Kokorin, Alexander Zhuk
13:30-15:00		l Option Model with an Optimism-Pessimism Measure using Trapezoidal Fuzzy Numbers	Irina Georgescu, Jani Kinnunen
	The Economic Resi	ilience Evaluation Using Fuzzy Sets & Soft Computing	Aleksei Nedosekin, Zinaida Abdoulaeva, Nadezhda Karpenko, Tatiana Nikitina
		AW-MAIRCA Method for Partner Evaluation for Circular Economy	Gülçin Büyüközkan, Deniz Uztürk
	Determination of t	he level of development of commodity markets by segmentation of economic regions based on the thec	Rena Mikayilova, Ramiz Alekperov
		Aug. 24, 2021 (DAY 1) Parallel Session 3	
	Session Chair	Serhat Aydın- Nurşah Alkan (saydın3@msu.hho.edu.tr, nalkan@itu.edu.tr)	Meeting ID: to be announced
	Session Name	SS3.1 Fuzzy Inference Systems Paper Title	Authors
UTC+3	COVID10 Infaction	s Disease Detection and Diagnosis System Using Case-Based Reasoning and Fuzzy Logic Inference Mod	
13:30-15:00		Fuzzy Inference System to Evaluate the Quality of Air Textured Warp Yarn	Umutgül Bulut, Eren Ozceylan
15.50 15.00		tural Goods with Image Processing and Fuzzy Inference Systems	Batuhan Atasoy, Ezgi Demir, Çağrı Aksu
		ral Fuzzy Inference System and ML Algorithms for Prediction of Nifty Large Cap Companies based Stock	
		zzy Inference System for CO2 Emissions Data	Lazim Abdullah, Herrini Mohd Pauzi
	•	Aug. 24, 2021 (DAY 1) Parallel Session 4	
	Session Chair	ngiz Kahraman-Fatma Kutlu Gündoğdu (kahramanc@itu.edu.tr, fatmakutlugundogdu@gmail.con	n Meeting ID: to be announced
	Session Name	SS4.1 Fuzzy Mathematics	
IITCTS		Paper Title	Authors

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13:30-15:00		Set of Bases of Fuzzy Temporal Graph	Alexander Bozhenyuk, Marina Belyakova, Olesiya Kosenko, Margarita Knyazeva	
		on making using fuzzy logic: comparative analysis of using different intersection and union operators	Andrii Shekhevtsov, Bartłomiej Kizielewicz, Wojciech Sałabun	
		Gy-equivalence relations' lattice	Azedine Boulmakoul, Maroua Razzouqi, Lamia Karim, Ahmed Lbath	
	Harmonization ar	nd Systematization of Categorical Propositions by Fuzzy Quantification Aug. 24, 2021 (DAY 1) Parallel Session 5	Yinsheng Zhang	
			W e' ID e I	
	Session Chair	Irem Ucal Sari-Veysel Coban (ucal@itu.edu.tr, veysel.coban@bilecik.edu.tr)	Meeting ID: to be announced	
	Session Name	SS6.1 Fuzzy Optimization Paper Title	Authori	
	0 11 17	TP TO THE	Authors	
UTC+3		y Entropy Optimization Methods for Fuzzy Data Analysis	Nihal İnce	
13:30-15:00		roach to the Optimal Design of Fuzzy Controllers for Trajectory Tracking	Alejandra Mancilla, Oscar Castillo, Mario Garcia	
		or Prize Collecting Traveling Salesman Problem with Time Windows	Onur Doğan, Ali Fuat Alkaya	
	Industrial Asset O	ptimization based on example of Digital Twin for Fired Heaters Asset Category	Arsen Ivanyan, Nodirbek Yusupbekov, Fakhritdin Abdurasulov, Farukh Adilov Nebojsa Bacanin, Aleksandar Petrovic, Miodrag Zivkovic, Timea Bezdan, Amit	
	Enhanced Salp Sw	varm Algorithm for Feature Selection	,	
		COFFEE BREAK	Chabba	
		Aug. 24, 2021 (DAY 1) Parallel Session 1		
	Session Chair	Ozlem Senvar-Nurşah Alkan (ozlem.senvar@marmara.edu.tr, nalkan@itu.edu.tr)	Meeting ID: to be announced	
	Session Name	SS5.1 Fuzzy Multi-Criteria Decision-Making	Freezing 157 to 50 announced	
		Paper Title	Authors	
UTC+3	Green Hospital At	tributes' Prioritization Using A Fuzzy Analytic Network Process(F-Anp)-Based Method	Aziz Kemal Konyalıoğlu, Tuğçe Beldek, Hatice Camgöz Akdağ	
		Evaluating E-Commerce Websites Using Integrated Fuzzy AHP and Fuzzy TOPSIS	Avca Altıntaslı, Melis Temiz, Ozlem Senvar	
		cility Location Allocation Decision Model in Pythagorean Fuzzy Sets using Max-Min-Max Composition	Ibrahim Yilmaz, Yağmur Arıöz, Cihat Öztürk, Abdullah Yildizbasi	
		In Energy Alternatives with HFL MCDM Methods	Esin Mukul, Merve Güler, Gülçin Büyüközkan	
		with Text Mining and Multi-Criteria Decision Making for E-Commerce Considering Online Reviews	Nurnadiah Zamri, Mohammad Ammar Pairan, Lazim Abdullah	
	Triybria Pictioa	Aug. 24, 2021 (DAY 1) Parallel Session 2	Nui nadian Zaini i, Monaininad Aininai Parran, Lazini Abdunan	
	Session Chair			
		Aug. 24, 2021 (DAY 1) Parallel Session 2		
	Session Chair	Aug. 24, 2021 (DAY 1) Parallel Session 2 angiz Kahraman-Fatma Kutlu Gündoğdu(kahramanc@itu.edu.tr, fatmakutlugundogdu@gmail.co		
UTC+3	Session Chair Session Name	Aug. 24, 2021 (DAY 1) Parallel Session 2 engiz Kahraman-Fatma Kutlu Gündoğdu(kahramanc@itu.edu.tr, fatmakutlugundogdu@gmail.co SS11.1 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making	on Meeting ID: to be announced	
	Session Chair Session Name Spherical fuzzy Cl	Aug. 24, 2021 (DAY 1) Parallel Session 2 engiz Kahraman-Fatma Kutlu Gündoğdu(kahramanc@itu.edu.tr, fatmakutlugundogdu@gmail.co SS11.1 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making Paper Title	on Meeting ID: to be announced Authors	
UTC+3 15:15-16:45	Session Chair Session Name Spherical fuzzy Cl Spherical Fuzzy R Evaluation of Sup	Aug. 24, 2021 (DAY 1) Parallel Session 2 Ingiz Kahraman-Fatma Kutlu Gündoğdu(kahramanc@itu.edu.tr, fatmakutlugundogdu@gmail.co SS11.1 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making Paper Title RITIC Method: Prioritizing Supplier Selection Criteria EGIME Method Waste Disposal Location Selection pliers in the Perspective of Digital Transformation: A Spherical Fuzzy TOPSIS Approach	Authors Cengiz Kahraman, Basar Oztaysi, Sezi Cevik Onar,	
UTC+3 15:15-16:45	Session Chair Session Name Spherical fuzzy Cl Spherical Fuzzy R Evaluation of Sup	Aug. 24, 2021 (DAY 1) Parallel Session 2 **pngiz Kahraman-Fatma Kutlu Gündoğdu(kahramanc@itu.edu.tr, fatmakutlugundogdu@gmail.co **SS11.1 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making **Paper Title** RITIC Method: Prioritizing Supplier Selection Criteria EGIME Method Waste Disposal Location Selection	Authors Cengiz Kahraman, Basar Oztaysi, Sezi Cevik Onar, Basar Oztaysi, Sezi Cevik Onar, Cengiz Kahraman	
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UTC+3 15:15-16:45	Session Chair Session Name Spherical fuzzy Cl Spherical Fuzzy R Evaluation of Sup Picture Fuzzy Eda Spherical fuzzy lin	Aug. 24, 2021 (DAY 1) Parallel Session 2 Ingiz Kahraman-Fatma Kutlu Gündoğdu(kahramanc@itu.edu.tr, fatmakutlugundogdu@gmail.co SS11.1 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making Paper Title RITIC Method: Prioritizing Supplier Selection Criteria EGIME Method Waste Disposal Location Selection pliers in the Perspective of Digital Transformation: A Spherical Fuzzy TOPSIS Approach as Method For Team Leader Selection In International Audit Firm hear assignment with objective weighting concept in the sustainable supply chain of aviation fuel Aug. 24, 2021 (DAY 1) Parallel Session 3	Authors Cengiz Kahraman, Basar Oztaysi, Sezi Cevik Onar, Basar Oztaysi, Sezi Cevik Onar, Cengiz Kahraman Serhat Aydin, Ahmet Aktaş, Mehmet Kabak Nihan Tirmikcioglu Cinar Yaser Donyatalab, Fariba Farid	
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UTC+3 15:15-16:45 UTC+3 15:15-16:45	Session Chair Session Name Spherical fuzzy CI Spherical Fuzzy R Evaluation of Sup Picture Fuzzy Eda Spherical fuzzy lin Session Chair Session Name Weapon Detection Color image segm Multi-Pose Face R Hybrid system for Image filtering us Session Chair Session Name A Novel Feature to	Aug. 24, 2021 (DAY 1) Parallel Session 2 **pagiz Kahraman-Fatma Kutlu Gündoğdu(kahramanc@itu.edu.tr, fatmakutlugundoğdu@gmail.co **SS11.1 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making **Paper Title** RITIC Method: Prioritizing Supplier Selection Criteria **EGIME Method Waste Disposal Location Selection pliers in the Perspective of Digital Transformation: A Spherical Fuzzy TOPSIS Approach **Is Method For Team Leader Selection In International Audit Firm **near assignment with objective weighting concept in the sustainable supply chain of aviation fuel **Aug. 24, 2021 (DAY 1) Parallel Session 3 **Irem Ucal Sari-Onur Doğan (ucal@itu.edu.tr, onur.dogan@bakircay.edu.tr) **SS10.1 Image Processing** **Paper Title** **n Using Radar Cross Section (RCS) And RESNET50 Towards Improved Decision Accuracy **entation using distance functions based on aggregation of pixels colors **ecognition Based on TP-GAN** **copy move forgery detection in image **ing fuzzy S-metrics** **Aug. 24, 2021 (DAY 1) Parallel Session 4 **Sezi Cevik Onar-Eda Bolturk (sezi@outlook.com, bolturk@itu.edu.tr) **SS13.1 Prediction and Estimation**	Authors Cengiz Kahraman, Basar Oztaysi, Sezi Cevik Onar, Basar Oztaysi, Sezi Cevik Onar, Cengiz Kahraman Serhat Aydin, Ahmet Aktaş, Mehmet Kabak Nihan Tirmikcioglu Cinar Yaser Donyatalab, Fariba Farid Meeting ID: to be announced Authors Collins Ineneji, Mehmet Kusaf Nebojsa Ralevic, Ljubo Nedovic, Lidija Krstanovic, Vladimir Ilic, Djordje Dragic Jaeho Choi, Wenjun Yu, Fei Chen Natasa Milosavljevic, Nebojsa Ralevic, Lidija Čomić, Andrija Blesic Nebojsa Ralevic, Danijela Karaklic, Marija Paunovic, Dejan Čebić Meeting ID: to be announced	

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		reneurial Activity at Micro and Meso Levels: A Fuzzy Time-Series Analysis	Jani Kinnunen, Irina Georgescu, Zahra Hosseini Issam Kouatli
		dictive analytics Model to reduce emotional stock trading eign Credit Ratings Using Differential Evolution and Logic Aggregation in IBA Framework	Srdjan Jelinek, Pavle Milošević, Aleksandar Rakićević, Bratislav Petrović
	For ecasting sover	Aug. 24, 2021 (DAY 1) Parallel Session 5	Stujan Jennek, Pavie Milosevic, Aleksandar Kakicevic, Bratislav Petrovic
	Session Chair	Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: to be announced
	Session Name	SS6.2 Fuzzy Optimization	meeting 1D: to be unnounced
	Jession Nume	Paper Title	Authors
UTC+3	Stabilization of a	D.C. Motor Speed Controller using Type-1 Fuzzy Logic Systems designed with the Chicken Search Optim	
1		lame theory in the Information Security Management Systems designed with the Unione Search Optimi	Valentyn Nekhai, Elena Trunova, Mariia Dorosh, Valentyn Nekhai
		for Time Constrained Vehicle Routing Problem	Esra Çakir, Ziya Ulukan, Cengiz Kahraman
		efly Algorithm To Improve SVC Controllers To Maintain Voltage Reliability In The power system connec	
	Dynamic Ontimal	Parameter Setting with Fuzzy Argument to Metaheuristic Algorithm Variant for Fuzzy Tracking Control	Felizardo Cuevas Oscar Castillo Prometeo Cortes-Antonio
	р		
		Aug 25, 2021 (DAY 2)	
UTC+3 0:00-10:45	*************	Speech of Prof. Vicenc Torra "Engineering aggregation functions."	Ten necessary properties and andness-directedne
	INVITED	Session Chair: Prof. A. Cagri Tolga	Meeting ID:
	SPEAKERS	Speech of Prof. Ahmet Fahri Özok on "Fuzzy So	et Theory and the Social Sciences"
UTC+3		Specen of Front minet Family Ozok on Fuzzy St	ct Theory and the Social Sciences
0:50-11:35			
		Session Chair: Prof. Basar Oztaysi	Meeting ID:
		COFFEE BREAK	
	Cassian Chain	Aug. 25, 2021 (DAY 2) Parallel Session 1	Marking ID to be accounted
	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Meeting ID: to be announced
	Session Name	SS4.2 Fuzzy Mathematics Paper Title	Authors
UTC+3	Higgspandical dogs	mposition by means of fuzzy simplicial complexes	Azedine Boulmakoul, Hafsaa Ouifak, Lamia Karim, Ahmed Lbath
		trality in Sparse Real World and Wireless Multi-Hop Networks	Atakan Tuzcu, Hilal Arslan
		bust Stabilization of a Linear Uncertain Dynamic Object Based on an Iterative algorithm	Nodirbek Yusupbekov, Igamberdiev Husan, Mamirov Uktam
		incertainty between the text content and the categories by a proposed wavelet similarity metric	İlknur Dönmez, Zafer Aslan
		Measure for Single Valued Neutrosophic Sets	Muhammad Jabir Khan, Poom Kumam
	A New Sillinarity	Aug. 25, 2021 (DAY 2) Parallel Session 2	Muhammau Jabii Khan, i ooni Kumam
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ì	Session Chair	Irem Otav-Ali Karasan (irem.otav@bilai.edu.tr. akarasan@vildiz.edu.tr)	Meetina ID: to be announced
	Session Chair Session Name	Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr, akarasan@yildiz.edu.tr) SS6.4 Fuzzy Ontimization	Meeting ID: to be announced
	Session Chair Session Name	Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr, akarasan@yildiz.edu.tr) SS6.4 Fuzzy Optimization Paper Title	
UTC+3	Session Name	SS6.4 Fuzzy Optimization Paper Title	Authors
	Session Name Designing a new s	SS6.4 Fuzzy Optimization Paper Title upply chain network considering transportation delays using meta-heuristics	Authors Vivek Kumar Chouhan, Fariba Godarzian, Mahmood Esfandiari, Ajith Abraham
1:45-13:15	Designing a new s A revised model f	SS6.4 Fuzzy Optimization Paper Title upply chain network considering transportation delays using meta-heuristics or fuzzy multi choice goal programming	Authors Vivek Kumar Chouhan, Fariba Godarzian, Mahmood Esfandiari, Ajith Abraham Hadi Hadi, Mona Ziaseraji, Fariba Godarzian, Ajith Abraham
1:45-13:15	Designing a new s A revised model f Diagnosis Of Brea	SS6.4 Fuzzy Optimization Paper Title upply chain network considering transportation delays using meta-heuristics or fuzzy multi choice goal programming st Cancer Using Novel Hybrid Approaches With Genetic Algorithm	Authors Vivek Kumar Chouhan, Fariba Godarzian, Mahmood Esfandiari, Ajith Abraham Hadi Hadi, Mona Ziaseraji, Fariba Godarzian, Ajith Abraham Ebru Pekel Özmen, Tuncay Ozcan
1:45-13:15	Designing a new s A revised model f Diagnosis Of Brea Using the IAB Cor	SS6.4 Fuzzy Optimization Paper Title upply chain network considering transportation delays using meta-heuristics or fuzzy multi choice goal programming st Cancer Using Novel Hybrid Approaches With Genetic Algorithm tents Taxonomy and Optimal Lifting for Efficient Audience Extension	Authors Vivek Kumar Chouhan, Fariba Godarzian, Mahmood Esfandiari, Ajith Abrahan Hadi Hadi, Mona Ziaseraji, Fariba Godarzian, Ajith Abraham Ebru Pekel Özmen, Tuncay Ozcan Dmitry Frolov, Zina Taran, Boris Mirkin
1:45-13:15	Designing a new s A revised model f Diagnosis Of Brea Using the IAB Cor	SS6.4 Fuzzy Optimization Paper Title upply chain network considering transportation delays using meta-heuristics or fuzzy multi choice goal programming st Cancer Using Novel Hybrid Approaches With Genetic Algorithm tents Taxonomy and Optimal Lifting for Efficient Audience Extension arch Algorithm Using Interval Type-2 Fuzzy Logic for Dynamic Parameter Adaptation	Authors Vivek Kumar Chouhan, Fariba Godarzian, Mahmood Esfandiari, Ajith Abrahan Hadi Hadi, Mona Ziaseraji, Fariba Godarzian, Ajith Abraham Ebru Pekel Özmen, Tuncay Ozcan
1:45-13:15	Designing a new s A revised model f Diagnosis Of Brea Using the IAB Cor	SS6.4 Fuzzy Optimization Paper Title upply chain network considering transportation delays using meta-heuristics or fuzzy multi choice goal programming st Cancer Using Novel Hybrid Approaches With Genetic Algorithm tents Taxonomy and Optimal Lifting for Efficient Audience Extension arch Algorithm Using Interval Type-2 Fuzzy Logic for Dynamic Parameter Adaptation Aug. 25, 2021 (DAY 2) Parallel Session 3	Authors Vivek Kumar Chouhan, Fariba Godarzian, Mahmood Esfandiari, Ajith Abrahan Hadi Hadi, Mona Ziaseraji, Fariba Godarzian, Ajith Abraham Ebru Pekel Özmen, Tuncay Ozcan Dmitry Frolov, Zina Taran, Boris Mirkin Maribel Guerrero-Luis, Fevrier Valdez, Oscar Castillo
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1:45-13:15	Designing a new s A revised model f Diagnosis Of Brea Using the IAB Cor A New Cuckoo Ses	SS6.4 Fuzzy Optimization Paper Title upply chain network considering transportation delays using meta-heuristics or fuzzy multi choice goal programming st Cancer Using Novel Hybrid Approaches With Genetic Algorithm tents Taxonomy and Optimal Lifting for Efficient Audience Extension arch Algorithm Using Interval Type-2 Fuzzy Logic for Dynamic Parameter Adaptation Aug. 25, 2021 (DAY 2) Parallel Session 3	Authors Vivek Kumar Chouhan, Fariba Godarzian, Mahmood Esfandiari, Ajith Abraham Hadi Hadi, Mona Ziaseraji, Fariba Godarzian, Ajith Abraham Ebru Pekel Özmen, Tuncay Ozcan Dmitry Frolov, Zina Taran, Boris Mirkin Maribel Guerrero-Luis, Fevrier Valdez, Oscar Castillo

11.43-13.13	Maximum Dynami	ic Flow Model for Hesitant Fuzzy Evacuation with Intermediate Storage at Nodes	Evgeniya Gerasimenko, Vladimir Kureichik, Elmar Kuliev
		nergency Decision-Making for Maximum Flow Evacuation with Intermediate Storage at Nodes	Evgeniya Gerasimenko, Vladimir Kureichik
		nesitant fuzzy sets: generalized fuzzy integrals	Yasuo Narukawa, Vicenc Torra
	Score marces for i	Aug. 25, 2021 (DAY 2) Parallel Session 4	1 asub Ivai ukawa, vicene 1011a
	Session Chair	Serhat Aydın- Nurşah Alkan (saydin3@msu.hho.edu.tr, nalkan@itu.edu.tr)	Meeting ID: to be announced
	Session Name	SS15.1 Q-Rung Orthopair Fuzzy Sets	Processing 157 to 50 unifounced
	Jession ivanic	Paper Title	Authors
UTC+3	An Industry 4 0 ac	laptation assessment with q-rung ortopair fuzzy MABAC method	Serhat Aydin
11:45-13:15		of Sanitarium Sites for COVID-19 Patients in Iran by applying an Integrated ELECTRE-VIKOR method in	
		LI-ON Battery Recycling Process in Circular Economy Environment: Pythagorean Fuzzy AHP Approach	
		&D Projects using Fermatean Fuzzy MARCOS method	Irem Ucal Sari, Sule Nur Sargin
		y Chain of Aviation Fuel based on analytical hierarchy process (AHP) under uncertainty of q-ROFSs	Fariba Farid, Yaser Donyatalab
	bustumusic suppr	Aug. 25, 2021 (DAY 2) Parallel Session 5	Turibu Turia, Tuber Donyamund
	Session Chair	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr)	Meeting ID: to be announced
	Session Name	SS5.2 Fuzzy Multi-Criteria Decision-Making	,
		Paper Title	Authors
UTC+3	An MCDM Based C	On Alpha Open Hypersoft Sets And Its Application	Ajay Devaraj, Charisma Joseline
11:45-13:15		nsistency Indices of Pairwise Comparisons Based on Fuzzy Evaluations	Veysel Çoban, Cengiz Kahraman
		Fuzzy AHP, EDAS and WASPAS for the Selection of Process Method in Software Projects	İbrahim Yel, Ahmet Sarucan, Mehmet Emin Baysal
		rosophic Soft Sets And Their Application To Decision Making Scenario	Ajay Devaraj, Chellamani Perumal
		ria Analysis of Factors Affecting the Digitalization Success of Public Services	Aylin ADEM, Burcu Yılmaz Kaya, Metin Dağdeviren
UTC+3	, , , , , , ,		
13:15-13:30		A visit to Izmir: video display - Lunch Bre	Pak
		Aug. 25, 2021 (DAY 2) Parallel Session 1	
	Session Chair	Cengiz Kahraman-Eda Bolturk (kahramanc@itu.edu.tr, bolturk@itu.edu.tr)	Meeting ID: to be announced
	Session Chair Session Name	Cengiz Kahraman-Eda Bolturk (kahramanc@itu.edu.tr, bolturk@itu.edu.tr) SS13.3 Prediction and Estimation	Meeting ID: to be announced
			Meeting ID: to be announced Authors
UTC+3	Session Name An Intelligent Mul	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser
UTC+3 13:30-15:00	Session Name An Intelligent Mul	SS13.3 Prediction and Estimation Paper Title	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser
UTC+3 13:30-15:00	Session Name An Intelligent Mul Short-term foreca	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser
	Session Name An Intelligent Mul Short-term foreca Currency Exchang	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction sting for three phrase current on distribution network by applying Multiple-layer perceptron algorithm	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser Thien-An Nguyen, Huu Vinh Nguyen, Hung Nguyen Akıner Alkan, Ali Fuat Alkaya S.M.Esad Demirci, Kadir Cicek, Ulku Ozturk
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	An Intelligent Mul Short-term foreca Currency Exchang A fuzzy rule-based	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction sting for three phrase current on distribution network by applying Multiple-layer perceptron algorithm te Rate Forecasting with Social Media Sentiment Analysis I ship risk profile prediction model for port state control inspections te factors in predicting bioelectrical impedance phase angle for classification of healthy and depressed ob	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser Thien-An Nguyen, Huu Vinh Nguyen, Hung Nguyen Akıner Alkan, Ali Fuat Alkaya S.M.Esad Demirci, Kadir Cicek, Ulku Ozturk
	An Intelligent Mul Short-term foreca Currency Exchang A fuzzy rule-based The most effective	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction sting for three phrase current on distribution network by applying Multiple-layer perceptron algorithm to Rate Forecasting with Social Media Sentiment Analysis alship risk profile prediction model for port state control inspections e factors in predicting bioelectrical impedance phase angle for classification of healthy and depressed ob Aug. 25, 2021 (DAY 2) Parallel Session 2	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser Thien-An Nguyen, Huu Vinh Nguyen, Hung Nguyen Akıner Alkan, Ali Fuat Alkaya S.M.Esad Demirci, Kadir Cicek, Ulku Ozturk Seyed Amir Tabatabaei Hosseini, Mahdad Esmaeili, Yaser Donyatalab, Fariborz Rahimi
	An Intelligent Mul Short-term foreca Currency Exchang A fuzzy rule-based The most effective	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction sting for three phrase current on distribution network by applying Multiple-layer perceptron algorithm se Rate Forecasting with Social Media Sentiment Analysis ship risk profile prediction model for port state control inspections se factors in predicting bioelectrical impedance phase angle for classification of healthy and depressed ob Aug. 25, 2021 (DAY 2) Parallel Session 2 Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr,akarasan@yildiz.edu.tr)	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser Thien-An Nguyen, Huu Vinh Nguyen, Hung Nguyen Akıner Alkan, Ali Fuat Alkaya S.M.Esad Demirci, Kadir Cicek, Ulku Ozturk Seyed Amir Tabatabaei Hosseini, Mahdad Esmaeili, Yaser Donyatalab, Fariborz
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13:30-15:00	An Intelligent Mul Short-term foreca Currency Exchang A fuzzy rule-based The most effective Session Chair Session Name	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction sting for three phrase current on distribution network by applying Multiple-layer perceptron algorithm se Rate Forecasting with Social Media Sentiment Analysis ship risk profile prediction model for port state control inspections se factors in predicting bioelectrical impedance phase angle for classification of healthy and depressed ob Aug. 25, 2021 (DAY 2) Parallel Session 2 Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr,akarasan@yildiz.edu.tr) SS16.1 Learning Algorithms Paper Title	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser Thien-An Nguyen, Huu Vinh Nguyen, Hung Nguyen Akıner Alkan, Ali Fuat Alkaya S.M.Esad Demirci, Kadir Cicek, Ulku Ozturk Seyed Amir Tabatabaei Hosseini, Mahdad Esmaeili, Yaser Donyatalab, Fariborz Rahimi Meeting ID: to be announced Authors
13:30-15:00 UTC+3	An Intelligent Mul Short-term foreca Currency Exchang A fuzzy rule-based The most effective Session Chair Session Name A Learning Based	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction sting for three phrase current on distribution network by applying Multiple-layer perceptron algorithm te Rate Forecasting with Social Media Sentiment Analysis I ship risk profile prediction model for port state control inspections te factors in predicting bioelectrical impedance phase angle for classification of healthy and depressed ob Aug. 25, 2021 (DAY 2) Parallel Session 2 Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr,akarasan@yildiz.edu.tr) SS16.1 Learning Algorithms Paper Title Vertical Integration Decision Model	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser Thien-An Nguyen, Huu Vinh Nguyen, Hung Nguyen Akıner Alkan, Ali Fuat Alkaya S.M.Esad Demirci, Kadir Cicek, Ulku Ozturk Seyed Amir Tabatabaei Hosseini, Mahdad Esmaeili, Yaser Donyatalab, Fariborz Rahimi Meeting ID: to be announced Authors Menekse Gizem Görgün, Seçkin Polat, Umut Asan
13:30-15:00	An Intelligent Mul Short-term foreca Currency Exchang A fuzzy rule-based The most effective Session Chair Session Name A Learning Based Comparing Fusion	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction sting for three phrase current on distribution network by applying Multiple-layer perceptron algorithm te Rate Forecasting with Social Media Sentiment Analysis I ship risk profile prediction model for port state control inspections te factors in predicting bioelectrical impedance phase angle for classification of healthy and depressed ob Aug. 25, 2021 (DAY 2) Parallel Session 2 Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr,akarasan@yildiz.edu.tr) SS16.1 Learning Algorithms Paper Title Vertical Integration Decision Model Methods For 3D Object Detection	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser Thien-An Nguyen, Huu Vinh Nguyen, Hung Nguyen Akıner Alkan, Ali Fuat Alkaya S.M.Esad Demirci, Kadir Cicek, Ulku Ozturk Seyed Amir Tabatabaei Hosseini, Mahdad Esmaeili, Yaser Donyatalab, Fariborz Rahimi Meeting ID: to be announced Authors Menekse Gizem Görgün, Seçkin Polat, Umut Asan Erkut Arican, Tarkan Aydin
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UTC+3 13:30-15:00	An Intelligent Mul Short-term foreca Currency Exchang A fuzzy rule-based The most effective Session Chair Session Name A Learning Based Comparing Fusion Diabetic Retinopa Artificial Intelligen Session Chair Session Chair Session Name Fuzzy risk manage	SS13.3 Prediction and Estimation Paper Title ti-Output Regression Model for Soil Moisture Prediction sting for three phrase current on distribution network by applying Multiple-layer perceptron algorithm se Rate Forecasting with Social Media Sentiment Analysis ship risk profile prediction model for port state control inspections se factors in predicting bioelectrical impedance phase angle for classification of healthy and depressed ob Aug. 25, 2021 (DAY 2) Parallel Session 2 Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr,akarasan@yildiz.edu.tr) SS16.1 Learning Algorithms Paper Title Vertical Integration Decision Model Methods For 3D Object Detection thy Detection with Deep Transfer Learning Models nce-Based Digital Financial Fraud Detection Aug. 25, 2021 (DAY 2) Parallel Session 3 Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com) SS17.1 Risk Management	Authors Cansel Kucuk, Derya Birant, Pelin Yildirim Taser Thien-An Nguyen, Huu Vinh Nguyen, Hung Nguyen Akıner Alkan, Ali Fuat Alkaya S.M.Esad Demirci, Kadir Cicek, Ulku Ozturk Seyed Amir Tabatabaei Hosseini, Mahdad Esmaeili, Yaser Donyatalab, Fariborz Rahimi Meeting ID: to be announced Authors Menekse Gizem Görgün, Seçkin Polat, Umut Asan Erkut Arican, Tarkan Aydin Gökalp Çınarer, Kazım Kılıç Sanaa Elyassami, Abdulrahman Ali Alhosani, Hamda Nasir Humaid, Hamed Taher Alawadhi Meeting ID: to be announced

			Alptekin Ulutaş, Ayşe Topal, Darjan Karabasevic, Dragisa Stanujkic, Gabrijela		
	Prioritization of L	ogistics Risks with Plithogenic PIPRECIA Method	Popovic, Florentin Smarandache		
	A New Risk Analys	sis Approach for Operational Risks in Logistic Sector based on Fuzzy Best Worst Method	Necip Fazıl Karakurt, Ecem Cem, Selcuk Cebi		
	Aug. 25, 2021 (DAY 2) Parallel Session 4				
	Session Chair	Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Meeting ID: to be announced		
	Session Name	SS14.1 Neural Networks			
		Paper Title	Authors		
UTC+3 13:30-15:00	Fuzzy Neural Netv	works for Detection Kidney Diseases	Rahib Abiyev, John Bush Idoko		
			Nebojsa Bacanin, Nikola Vukobrat, Miodrag Zivkovic, Timea Bezdan, Ivana		
		Hawks Optimization Adapted for Artificial Neural Network Training	Strumberger		
		ural Network Architecture for Human Facial Expression Recognition	Jaeho Choi, Sangaraju Kumar		
	Diagnosis of COVI	D-19 using Deep Neural Networks and Meta-heuristic Algorithm	Omer Faruk Gurcan, Ugur Atici, Mustafa Berkan Bicer, Onur Dogan		
	Constant Charles	Aug. 25, 2021 (DAY 2) Parallel Session 5	Marking ID to be appropriated		
	Session Chair	Serhat Aydın- Nurşah Alkan (saydin3@msu.hho.edu.tr, nalkan@itu.edu.tr)	Meeting ID: to be announced		
	Session Name	SS12.1 Machine Learning Paper Title	Authori		
	Notice of Declerate	·	Authors		
UTC+3		all Association Player Salary Prediction Using Supervised Machine Learning Methods	Emirhan Özbalta, Mücahit Yavuz, Tolga Kaya		
13:30-15:00	Demand Forecasti	ing Of A Company That Produces By Mass Customization With Machine Learning	Ahmet Tekin, Ferhan Cebi, Engin Yağcioğlu Mehmet Karahan, Furkan Laçinkaya, Kaan Erdönmez, Eren Deniz Eminağaoğlu,		
	Face Detection an	d Facial Feature Extraction with Machine Learning	Coşku Kasnakoğlu		
	Prediction Models	s for Project Attributes Using Machine Learning	Ching-Lung Fan		
		tion of Turkish Banks Using Machine Learning Methods	Bora Egüz, Fırat Ersin Çorbacı, Tolga Kaya		
	Stock Trice Treate	COFFEE BREAK	Bota Egaz, Trac Ersin Gorbaci, Toiga Raya		
		Aug. 25, 2021 (DAY 2) Parallel Session 1			
	Session Chair	Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr, akarasan@vildiz.edu.tr)	Meeting ID: to be announced		
	Session Chair Session Name	Irem Otay-Ali Karasan (irem.otay@bilgi.edu.tr, akarasan@yildiz.edu.tr) SS14.2 Neural Networks	Meeting ID: to be announced		
			Meeting ID: to be announced Authors		
UTC+3	Session Name	SS14.2 Neural Networks	Authors		
UTC+3 15:15-16:45	Session Name Application of neu	SS14.2 Neural Networks Paper Title			
	Application of neu Bilingual speech e	SS14.2 Neural Networks Paper Title ural networks in sentiment analysis of social media text data	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina		
	Session Name Application of neu Bilingual speech e Dynamic Multiplie	SS14.2 Neural Networks Paper Title ural networks in sentiment analysis of social media text data motion recognition using neural networks: A case study for Turkish and English languages	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak		
	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extraction	SS14.2 Neural Networks Paper Title Iral networks in sentiment analysis of social media text data Immotion recognition using neural networks: A case study for Turkish and English languages Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac Tom Text Using Fuzzy-Deep Neural Network Irac Quivalent Neural Network	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş		
	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - Ed	SS14.2 Neural Networks Paper Title ural networks in sentiment analysis of social media text data emotion recognition using neural networks: A case study for Turkish and English languages er CPPI Strategy with Wavelets and Neural-Fuzzy Systems en from Text Using Fuzzy-Deep Neural Network quivalent Neural Network Aug. 25, 2021 (DAY 2) Parallel Session 2	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi		
	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - Ea	SS14.2 Neural Networks Paper Title ural networks in sentiment analysis of social media text data emotion recognition using neural networks: A case study for Turkish and English languages er CPPI Strategy with Wavelets and Neural-Fuzzy Systems en from Text Using Fuzzy-Deep Neural Network quivalent Neural Network Aug. 25, 2021 (DAY 2) Parallel Session 2 Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr)	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi		
	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - Ed	SS14.2 Neural Networks Paper Title ural networks in sentiment analysis of social media text data emotion recognition using neural networks: A case study for Turkish and English languages er CPPI Strategy with Wavelets and Neural-Fuzzy Systems on from Text Using Fuzzy-Deep Neural Network quivalent Neural Network Aug. 25, 2021 (DAY 2) Parallel Session 2 Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr) SS12.2 Machine Learning	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced		
	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - Ea Session Chair Session Name	SS14.2 Neural Networks Paper Title aral networks in sentiment analysis of social media text data emotion recognition using neural networks: A case study for Turkish and English languages er CPPI Strategy with Wavelets and Neural-Fuzzy Systems en from Text Using Fuzzy-Deep Neural Network quivalent Neural Network Aug. 25, 2021 (DAY 2) Parallel Session 2 Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr) SS12.2 Machine Learning Paper Title	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Authors		
15:15-16:45	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - Ec Session Chair Session Name Clustering English	SS14.2 Neural Networks Paper Title Iral networks in sentiment analysis of social media text data Immotion recognition using neural networks: A case study for Turkish and English languages Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac Transport Using Fuzzy-Deep Neural Network Irac Transport Using Fuzzy-Deep Neural Network Irac Transport Irac Tran	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Authors Mustafa Ispa, Ufuk Yarisan, Tolga Kaya		
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15:15-16:45 UTC+3	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - E Session Chair Session Name Clustering English New Fuzzy Observ Comparison of MI	SS14.2 Neural Networks Paper Title Iral networks in sentiment analysis of social media text data Immotion recognition using neural networks: A case study for Turkish and English languages Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Aug. 25, 2021 (DAY 2) Parallel Session 2 Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr) SS12.2 Machine Learning Paper Title Irac Permier League Referees Using Unsupervised Machine Learning Techniques Irac Fault Pattern Detection by NARX-Laguerre Model Applied to Rotating Machine Algorithms to Detect Vulnerabilities of RPL-Based IoT Devices in Intelligent and Fuzzy Systems	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Authors Mustafa Ispa, Ufuk Yarisan, Tolga Kaya Shahnaz Tayebihaghighi Murat Ugur Kiraz, Atinc Yilmaz		
15:15-16:45 UTC+3	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - E Session Chair Session Name Clustering English New Fuzzy Observ Comparison of MI	SS14.2 Neural Networks Paper Title Iral networks in sentiment analysis of social media text data Immotion recognition using neural networks: A case study for Turkish and English languages Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac Text Using Fuzzy-Deep Neural Network Irac Text Using Fuzzy-Deep Neural	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Authors Mustafa Ispa, Ufuk Yarisan, Tolga Kaya Shahnaz Tayebihaghighi		
15:15-16:45 UTC+3	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - En Session Chair Session Name Clustering English New Fuzzy Observ Comparison of MI Predictive quality	SS14.2 Neural Networks Paper Title Irral networks in sentiment analysis of social media text data Immotion recognition using neural networks: A case study for Turkish and English languages Irr CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irrom Text Using Fuzzy-Deep Neural Network Irrom Text Using Fuzzy-Deep Neural	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Mustafa Ispa, Ufuk Yarisan, Tolga Kaya Shahnaz Tayebihaghighi Murat Ugur Kiraz, Atinc Yilmaz Muhammed Hakan Yorulmuş, Bersam Bolat, Çağatay Bahadır		
15:15-16:45 UTC+3	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extraction RRAM – based - En Session Chair Session Name Clustering English New Fuzzy Observ Comparison of MI Predictive quality Session Chair	SS14.2 Neural Networks Paper Title Iral networks in sentiment analysis of social media text data Imotion recognition using neural networks: A case study for Turkish and English languages Irac CPPI Strategy with Wavelets and Neural-Fuzzy Systems Irac CPPI Strategy with Wavelets and English languages Irac CPPI Strategy with Wavelets and English languages Irac CPPI Strategy with Wavelets and English languages Irac CPPI Strategy with Wavelets and English languages Irac CPPI Strategy with Wavelets and English languages Irac CPPI Strategy with Wavelets and English languages Irac CPPI Strategy	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Authors Mustafa Ispa, Ufuk Yarisan, Tolga Kaya Shahnaz Tayebihaghighi Murat Ugur Kiraz, Atinc Yilmaz		
15:15-16:45 UTC+3	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - En Session Chair Session Name Clustering English New Fuzzy Observ Comparison of MI Predictive quality	SS14.2 Neural Networks Paper Title Irral networks in sentiment analysis of social media text data Immotion recognition using neural networks: A case study for Turkish and English languages Per CPPI Strategy with Wavelets and Neural-Fuzzy Systems In from Text Using Fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network In from Text Using In fuzzy-Deep Neural Network	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Mustafa Ispa, Ufuk Yarisan, Tolga Kaya Shahnaz Tayebihaghighi Murat Ugur Kiraz, Atinc Yilmaz Muhammed Hakan Yorulmuş, Bersam Bolat, Çağatay Bahadır Meeting ID: to be announced		
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UTC+3 15:15-16:45	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - Ed Session Chair Session Name Clustering English New Fuzzy Observ Comparison of MI Predictive quality Session Chair Session Name Seismic vulnerabi	SS14.2 Neural Networks Paper Title Irral networks in sentiment analysis of social media text data Imotion recognition using neural networks: A case study for Turkish and English languages Irr CPPI Strategy with Wavelets and Neural-Fuzzy Systems In from Text Using Fuzzy-Deep Neural Network Quivalent Neural Network Aug. 25, 2021 (DAY 2) Parallel Session 2 Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr) SS12.2 Machine Learning Paper Title I Premier League Referees Using Unsupervised Machine Learning Techniques Ver Fault Pattern Detection by NARX-Laguerre Model Applied to Rotating Machine Algorithms to Detect Vulnerabilities of RPL-Based IoT Devices in Intelligent and Fuzzy Systems defect detection using machine-learning algorithms: A case study from automobile industry Aug. 25, 2021 (DAY 2) Parallel Session 3 Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS11.2 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making Paper Title lity assessment using spherical fuzzy ARAS	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Authors Mustafa Ispa, Ufuk Yarisan, Tolga Kaya Shahnaz Tayebihaghighi Murat Ugur Kiraz, Atinc Yilmaz Muhammed Hakan Yorulmuş, Bersam Bolat, Çağatay Bahadır Meeting ID: to be announced Authors Akin Menekse, Hatice Camgöz Akdağ		
UTC+3 15:15-16:45	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractic RRAM – based - Ed Session Chair Session Name Clustering English New Fuzzy Observ Comparison of MI Predictive quality Session Name Seismic vulnerabi Public Transporta	SS14.2 Neural Networks Paper Title Tal networks in sentiment analysis of social media text data Amotion recognition using neural networks: A case study for Turkish and English languages For CPPI Strategy with Wavelets and Neural-Fuzzy Systems For from Text Using Fuzzy-Deep Neural Network Aug. 25, 2021 (DAY 2) Parallel Session 2 Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr) SS12.2 Machine Learning Paper Title Premier League Referees Using Unsupervised Machine Learning Techniques For Fault Pattern Detection by NARX-Laguerre Model Applied to Rotating Machine Algorithms to Detect Vulnerabilities of RPL-Based IoT Devices in Intelligent and Fuzzy Systems defect detection using machine-learning algorithms: A case study from automobile industry Aug. 25, 2021 (DAY 2) Parallel Session 3 Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS11.2 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making Paper Title Bity assessment using spherical fuzzy ARAS tion Business Model Assessment with Spherical Fuzzy AHP	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Authors Mustafa Ispa, Ufuk Yarisan, Tolga Kaya Shahnaz Tayebihaghighi Murat Ugur Kiraz, Atinc Yilmaz Muhammed Hakan Yorulmuş, Bersam Bolat, Çağatay Bahadır Meeting ID: to be announced Authors Akin Menekse, Hatice Camgöz Akdağ Busra Buran, Mehmet Ercek		
UTC+3 15:15-16:45	Application of neu Bilingual speech e Dynamic Multiplie Emotion Extractio RRAM – based - Ed Session Chair Session Name Clustering English New Fuzzy Observ Comparison of MI Predictive quality Session Chair Session Name Seismic vulnerabi Public Transporta A Decision Support	SS14.2 Neural Networks Paper Title Irral networks in sentiment analysis of social media text data Imotion recognition using neural networks: A case study for Turkish and English languages Irr CPPI Strategy with Wavelets and Neural-Fuzzy Systems In from Text Using Fuzzy-Deep Neural Network Quivalent Neural Network Aug. 25, 2021 (DAY 2) Parallel Session 2 Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr) SS12.2 Machine Learning Paper Title I Premier League Referees Using Unsupervised Machine Learning Techniques Ver Fault Pattern Detection by NARX-Laguerre Model Applied to Rotating Machine Algorithms to Detect Vulnerabilities of RPL-Based IoT Devices in Intelligent and Fuzzy Systems defect detection using machine-learning algorithms: A case study from automobile industry Aug. 25, 2021 (DAY 2) Parallel Session 3 Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS11.2 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making Paper Title lity assessment using spherical fuzzy ARAS	Authors Vadim Moshkin, Andrey Konstantinov, Nadezhda Yarushkina Damla Büşra Özsönmez, Tankut Acarman, Burak Parlak Omer Gursoy, Oktay Taş Ashkan Yeganeh Zaremarjal, Derya Yıltaş-Kaplan, Soghra Lazemi Ali Mohammed Meeting ID: to be announced Authors Mustafa Ispa, Ufuk Yarisan, Tolga Kaya Shahnaz Tayebihaghighi Murat Ugur Kiraz, Atinc Yilmaz Muhammed Hakan Yorulmuş, Bersam Bolat, Çağatay Bahadır Meeting ID: to be announced Authors Akin Menekse, Hatice Camgöz Akdağ		

	Picture Similarity	Measures and Their Application to Medical Diagnosis	Fatma Kutlu Gündogdu, Seyed Amin Seyfi-Shishavan			
	Aug. 25, 2021 (DAY 2) Parallel Session 4					
	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: to be announced			
	Session Name	SS5.3 Fuzzy Multi-Criteria Decision-Making				
		Paper Title	Authors			
UTC+3	An Integrated App	roach To Human Resources Software Program Selection In A Fuzzy Enviroment	Ezgi Köy, Aziz Kemal Konyalıoğlu, Ferhan Cebi			
15:15-16:45	Determination of	the Best Alternative Position for the Storage Location Product Assignment Problem by Multiple Criteria	Bünyamin Sarıcan, Mehmet Emin Baysal, Ahmet Sarucan			
	How Different are	Fuzzy MCDA Models, Which are Fuzzy Extensions of an MCDA Method?	Boris Yatsalo			
	Evaluating Driver	Behavior Criteria Connected to Road Safety by Considering 2-Dimensional Uncertain Linguistic Data	Sarbast Moslem, Danish Farooq, Ali Karasan			
	Warehouse Locati	on Decision in Medical Sector: A Fuzzy Comparative Study in Post-Covid Era	Tutku Tuncalı Yaman, Gonca Reyhan Akkartal			
		Aug. 25, 2021 (DAY 2) Parallel Session 5				
	Session Chair	Serhat Aydın- Nurşah Alkan (saydin3@msu.hho.edu.tr, nalkan@itu.edu.tr)	Meeting ID: to be announced			
	Session Name	SS4.3 Fuzzy Mathematics				
		Paper Title	Authors			
UTC+3	ensen-Shannon divergence for smart buildings' fuzzy topological networks similarity analytics		Azedine Boulmakoul, Abdellah Daissaoui, Lamia Karim, Fatima-ezzahra Badaoui,			
15:15-16:45	Jensen-snamnon u	ivergence for smart buildings fuzzy topological networks similarity analytics	Ahmed Lbath			
13.13-10.43	Fuzzy Logic Beyor	nd Traditional ``And''-Operations	Vladik Kreinovich, Olga Kosheleva			
	Application of Cho	quet integral operator to aggregate ELICIT information	Wen He, Bapi Dutta, Rosa M. Rodríguez, Luis Martínez			
	A Numerical Meth	od for Integration of a Fuzzy Function over a Fuzzy Interval	Gizem Temelcan, Hale Gonce Kocken, Inci Albayrak			
	Figurative Series i	n Spatial Analysis of Situations	Stanislav Belyakov, Alexander Bozhenyuk, Margarita Knyazeva, Igor Rozenberg			

	Aug 26, 2021 (DAY 3)					
		Aug. 26, 2021 (DAY 3) Parallel Session 1				
	Session Chair	Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: to be announced			
	Session Name	SS20.1 Neutrosophic Sets				
		Paper Title	Authors			
UTC+3		Chain Disruption Factors under the effect of Covid-19 Pandemic via Neutrosophic DEMATEL	Fatma Cayvaz, Gulfem Tuzkaya, Zeynep Tugce Kalender, Hüseyin Selcuk Kilic			
10:00-11:30		sophic Fuzzy MCDM Approach on Electric Vehicle Charging Station Relocation with Time-Dependent De	, , , ,			
		Method For Sustainable Production With Using Neutrosophic Sets	Sezen Ayber, Nihal Erginel			
		vith Neutrosophic Sets	Hatice Ercan Teksen			
	Selection of the Be	est Software Project Management Model via Interval-Valued Neutrosophic AHP	Nisa Cizmecioglu, Hüseyin Selcuk Kilic, Zeynep Tugce Kalender, Gulfem Tuzkaya			
		Aug. 26, 2021 (DAY 3) Parallel Session 2				
	Session Chair	Cengiz Kahraman-Eda Bolturk (kahramanc@itu.edu.tr,bolturk@itu.edu.tr)	Meeting ID: to be announced			
	Session Name	SS6.3 Fuzzy Optimization				
UTC+3		Paper Title	Authors			
10:00-11:30	A Fuzzy Variant of	the Multi-verse Optimizer for Optimal Design of Fuzzy Controllers	Lucio Amezquita, Oscar Castillo, Jose Soria, Prometeo Cortes-Antonio			
10.00 11.00	The Task of Optim	izing Production Planning with Fuzzy Parameters	Olesiya Kosenko, Alexander Bozhenyuk, Margarita Knyazeva			
	Comparative Study	y of Identification Using Nonlinear Least Squares Errors and Particle Swarm Optimization Algorithms fo	Seniz Ertugrul, Masoud Abedinifar			
	A new artificial be	e colony algorithm approach for the vehicle routing problem	Hubert Zarzycki, Oskar Skubisz			
		Aug. 26, 2021 (DAY 3) Parallel Session 3				
	Session Chair	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr)	Meeting ID: to be announced			
	Session Name	SS16.2 Learning Algorithms				
UTC+3		Paper Title	Authors			
10:00-11:30	From Statistical to	Deep Learning Models: A Comparative Sentiment Analysis Over Commodity News	Mahmut Sami Sivri, Buse Sibel Korkmaz, Alp Ustundag			
10.00 11.30	Deep Learning Net	twork Model Studies for Adversarial Attack Resistance	Jaeho Choi, Fei Chen			
	An Ensemble Lear	ning Approach for Energy Demand Forecasting in Microgrids using Fog Computing	Tuğçe Keskin, Gökhan İnce			

	A fuzzy deep learn	ing approach to health-related text classification	Nasser Ghadiri, Ali Ghadiri, Afrooz Sheikholeslami
	<u></u>	Aug. 26, 2021 (DAY 3) Parallel Session 4	,
	Session Chair	Serhat Aydın- Nurşah Alkan (saydin3@msu.hho.edu.tr, nalkan@itu.edu.tr)	Meeting ID: to be announced
	Session Name	SS17.2 Risk Management	
		Paper Title	Authors
UTC+3	Towards a safe pe	destrian walkability under intuitionistic fuzzy risk: A real-time reactive microservice oriented ecosyste	Ghyzlane Cherradi, Azedine Boulmakoul, Lamia Karim, Ahmed Lbath, Meriem Ma
10:00-11:30		ech Startup Projects with Fuzzy Failure Mode and Effect Analysis	Bersam Bolat, Fatma Yaşlı, Gul T. Temur
		ed Ranking Fuzzy Numbers for Financial Risk Management	Lazim Abdullah, Ahmad Termimi Ab Ghani, Nurnadiah Zamri
	Fuzzy pretopologi	cal space for pedestrians' risk perception modeling	Azedine Boulmakoul, Souhail El Kaissi, Ahmed Lbath
		Aug. 26, 2021 (DAY 3) Parallel Session 5	
	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: to be announced
	Session Name	SS18.1 Intuitionistic fuzzy sets	
UTC+3		Paper Title	Authors
10:00-11:30	A ranking method	of the generalized intuitionistic fuzzy numbers using possibility theory	Totan Garai
10.00-11.30		fuzzy framework for evaluation and rank ordering the negotiation offers	Ewa Roszkowska
		y ANOVA for COVID-19 Cases in Asia by Density and Climate Factors	Velichka Traneva, Stoyan Tranev
	Vendor Selection i	n IT Using Integrated MCDM & Intuitionistic Fuzzy	Aylin Tan, Babak Daneshvar Rouyendegh
		COFFEE BREAK	
		Aug. 26, 2021 (DAY 3) Parallel Session 1	
	Session Chair	Irem Otay-Elif Haktanır (irem.otay@bilgi.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: to be announced
	Session Name	SS18.2 Intuitionistic fuzzy sets	
UTC+3		Paper Title	Authors
11:45-13:15		R Method Using Circular Intuitionistic Fuzzy Sets	Cengiz Kahraman, Irem Otay
		Using Interval-Valued Intuitionistic Fuzzy VIKOR: A Case Study of Covid-19 Pandemic	Cihat Öztürk, Abdullah Yildizbasi, Yağmur Arıöz, İbrahim Yilmaz
		of complex intuitionistic fuzzy linear systems in an electrical circuit	Akila Padmasree, Parvathi Rangasamy
	Intuitionistic Fuzz	y Index-Matrix Selection for the Outsourcing Providers at a Refinery	Velichka Traneva, Stoyan Tranev
	Carata Chata	Aug. 26, 2021 (DAY 3) Parallel Session 2	W c' ID c I
	Session Chair	A. Cagri Tolga-Ali Karasan (ctolga@gsu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: to be announced
	Session Name	SS1.2 Fuzzy Clustering Paper Title	Authors
UTC+3	Tout Commontation	·	
		n Using Light Syntax Parsing and Fuzzy Systems ferging Policy Based on Shannon's Entropy and Symmetric Relative Entropy for Non-Convex Cluster De	Omar Ali, Alexander Gegov, Ella Haig, Rinat Khusainov
11.45-15.15		gence Digital Twin for Bearing Pattern Recognition	Farzin Piltan
		gence Digital 1 will for bearing Pattern Recognition Ier Segmentation Considering Beer Sales Based On Beer Attributes, Products And Price: A Case Study Fo	11
		tation Using RFM Model and Clustering Methods in Online Retail Industry	Sezgi Acar, Fatma Köroğlu, Batuhan Duyuler, Tolga Kaya, Tuncay Ozcan
	Customer segmen	Aug. 26, 2021 (DAY 3) Parallel Session 3	Sezgi Acai, Fatina Korogiu, Batunan Duyurer, Torga Kaya, Tuncay Ozcan
	Session Chair	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr)	Meeting ID: to be announced
	Session Name	SS5.4 Fuzzy Multi-Criteria Decision-Making	Freeting 151 to be unitounced
		Paper Title	Authors
UTC+3	Application of Sim	ilarity Measures for Triangular Fuzzy Numbers in modified TOPSIS Technique to Handling Data Uncert	Bartłomiei Kizielewicz, Andrii Shekheytsov, Woiciech Sałabun
11:45-13:15		pproach To Usability Research For Digital Platforms In Fuzzy Environment	Burcu Yılmaz Kaya, Aylin Adem, Metin Dağdeviren
		P Decision Model for Selecting the Best Firewall	Ceren Cubukcu, Cem Cantekin
		ensus Model for Extended Comparative Linguistic Expressions with Symbolic Translation	Álvaro Labella, Rosa M. Rodríguez, Luis Martínez
		sion Making Problem with Triangular Fuzzy Neutrosophic Sets	Hatice Ercan Teksen
		Aug. 26, 2021 (DAY 3) Parallel Session 4	
	Session Chair	Irem Ucal Sari- Fatma Kutlu Gündoğdu (ucal@itu.edu.tr, fatmakutlugundogdu@gmail.com)	Meeting ID: to be announced
	Session Name	SS19.1 Quality Management	
		Paper Title	Authors
			

UTC+3	Testing Absolute Error	Loss-based Capability Index	Abbas Parchami
11:45-13:15		is for Trim Levels of Automobiles using Fuzzy Kano Model	Irem Ucal Sari, Furkan Sevinc
		illure Possibility into Probability for Reliability of Complex Systems	Bekir Sahin, Anis Yazidi, Dumitru Roman, Md Zia Uddin, Ahmet Soylu
		uzzy Quality with a Case Study in Pipe Manufacturing Industries	Abbas Parchami, Hamideh Iranmanesh, Bahram Sadeghpour Gildeh
		y Test based on Fuzzy Specification Limits	Hamideh Iranmanesh, Abbas Parchami, Bahram Sadeghpour Gildeh
	ir case study on Quanty	Aug. 26, 2021 (DAY 3) Parallel Session 5	Trainiant Trainiant Si, Fibbas Farchann, Banrain Saatgripour diater
	Session Chair	Sukran Seker-Nursah Alkan (sseker@yildiz.edu.tr, nalkan@itu.edu.tr)	Meeting ID: to be announced
	Session Name	SS11.3 New Extensions: Spherical & Picture Fuzzy Sets in Decision Making	receing 15. to be unnounced
	Jession Hume	Paper Title	Authors
UTC+3	Present Worth Analysis	s Using Spherical Fuzzy Sets	Eda Boltürk, Sukran Seker
		M Method: Wastewater Treatment Technology Selection Application	Cengiz Kahraman, Başar Öztayşi, Sezi Çevik Onar
		Isure of Cubic Spherical Fuzzy Sets and Its application to MCDM	Ajay Devaraj, J Aldring
	Complex T-Spherical Fu	· · · · · · · · · · · · · · · · · · ·	Muhammad Akram
		7D-19 Pandemic Management System: Evaluation of Barriers with Spherical Fuzzy AHP Approach	
UTC+3	8	1 1	
13:15-13:30		A visit to Izmir: video display - Lunch Bre	eak
		Aug. 26, 2021 (DAY 3) Parallel Session 1	
	Session Chair engiz	z Kahraman-Fatma Kutlu Gündoğdu (kahramanc@itu.edu.tr, fatmakutlugundogdu@gmail.com	Meeting ID: to be announced
	Session Name	SS22.1 Intelligent and Fuzzy Sets Applications	
		Paper Title	Authors
UTC+3	Intelligent France Contac	for Charle Dat Cour Appliances	Nurullah Akkaya, Ersin Aytac, Gorkem Say, Sanan Abizada, Tolga Yirtici, Berk
13:30-15:00		m for Stray Pet Care Appliances	Yilmaz, Gokhan Burge, Irfan Gunsel, Rahib Abiyev
13.30-13.00		n of Fuzzy Events Probabilities	Provotar Oleksandr
		umerical solutions of fuzzy partial differential equations via interactive and non-interactive arithm	
	Modelling of Covid-19 i	in Turkey based on Fuzzy Stochastic Differential Equations	Nihal İnce, Sevil Şentürk
	Application of Fuzzy Lo	ogic Apparatus to Solve the Problem of Spatial Selection in Architectural-Design Projects	Rahib Imamguluyev, Niyar Umarova
		Aug. 26, 2021 (DAY 3) Parallel Session 2	
	Session Chair	A. Cagri Tolga- Ali Karasan (ctolga@gsu.edu.tr, akarasan@yildiz.edu.tr)	Meeting ID: to be announced
	Session Name	SS22.2 Intelligent and Fuzzy Sets Applications	
		Paper Title	Authors
UTC+3		y Twitter-like Smart Social Network	Marius Constantin Popescu, Calin Rada, Antoanela Naaji
13:30-15:00		Customer Loyalty Framework using Distributed Ledger Technologies	Ahmet Ünal, Kerim Ay, Selçuk Öztürk, Cengiz Gezer, Gökhan İnce
	An Integration of Interv	val Type-2 Fuzzy Set with Equitable Linguistic Approach based on Multi-Criteria Decision Making:	Nurnadiah Zamri, Zamali Tarmudi, Syibrah Naim
	Fuzzy spatiotemporal c	centrality for urban resilience	Azedine Boulmakoul, Fatima-ezzahra Badaoui, Lamia Karim, Ahmed Lbath, Rachid Oulad Haj Thami
	Dra Diagnagia Cunnant	System For Post Covid-19 Syndrome In Turkey	Yesim Kop Naskali, Y. Esra Albayrak
	Pre-Diagnosis support	Aug. 26, 2021 (DAY 3) Parallel Session 3	resiii kup naskaii, 1. Esta Aibaytak
	Session Chair	Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr)	Meeting ID: to be announced
	Session Name	SS8.1 Grey Theory	receing 15. to be unnounced
	Jession Hume	Paper Title	Authors
UTC+3	Forecasting Model Usin	ng Fuzzy Time Series and Grey Theory	Funda Ahmetoglu Tasdemir, Sukran Seker
13:30-15:00		on problem under Grey Linear Programming based on sensitivity analysis	Farid Pourofoghi, davood darvishi, Ajith Abraham
		or Grey Bernoulli Model For Forecasting The Electricity Consumption During Covid-19 Pandemic: A	
		tive response variables for the milling characteristics of AI-SiC particulate composites using taguch	
	inary or or marci object	Aug. 26, 2021 (DAY 3) Parallel Session 4	10.1411014
	Session Chair	Irem Ucal Sari-Eda Bolturk (ucal@itu.edu.tr, bolturk@itu.edu.tr)	Meeting ID: to be announced
	Session Name	SS21.1 Z Numbers	
		Paper Title	Authors
1	Tuper rue Authors		

		ty of plant species to harmful urban environment under Z- information	Olga Poleshchuk		
13:30-15:00	Critical path for pr	ojects with activity durations modelled as Z-fuzzy numbers	Ewa Marchwicka, Dorota Kuchta		
	Defuzzification of	Intuitionistic Z-Numbers for Fuzzy Multi Criteria Decision Making	Nik Muhammad Farhan Hakim Nik Badrul Alam, Ku Muhammad Naim Ku Khalif, Nor Izzati Jaini, Ahmad Syafadhli Abu Bakar, Lazim Abdullah		
			Olga Poleshchuk		
	Aug. 26, 2021 (DAY 3) Parallel Session 5				
	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: to be announced		
	Session Name	SS18.3 Intuitionistic fuzzy sets			
UTC+3		Paper Title	Authors		
13:30-15:00		tton production companies transition to industry 4.0 using the intuitionistic fuzzy TOPSIS method	Merve Çil, Babak Daneshvar Rouyendegh		
15.50 15.00		actors Affecting the Digitalization of Quality Management Using Circular Intuitionistic Fuzzy Best-Wors			
		imilarity Measure Based on The Choquet Integral for Intuitionistic Fuzzy Sets and Its Application to Pat			
	Social Acceptabilit	y Assessment of Renewable Energy Policies: An Integrated Approach based on IVPF BOCR and IVIF AH	II Esra Ilbahar, Selcuk Cebi, Cengiz Kahraman		
		COFFEE BREAK			
		Aug. 26, 2021 (DAY 3) Parallel Session 1			
	Session Chair	Irem Ucal Sari- Eda Bolturk (ucal@itu.edu.tr, bolturk@itu.edu.tr)	Meeting ID: to be announced		
	Session Name	SS22.3 Intelligent and Fuzzy Sets Applications			
	7 1 H CY 1	Paper Title	Authors Till I Augh Al		
UTC+3		ation room and Anteroom of Hospitals in Corona Conditions (Case Study: Sari, Iran)	Hassan Ahmadi Choukolaei, Soheil Shafaee Tilaki, Ajith Abraham		
15:15-16:45		ndy of FAHP with Type-1 and Interval Type-2 Fuzzy Sets for ICT Implementation in Smart Cities	Dušan Milošević, Mimica Milošević, Dušan Simjanović		
		m for cohesive development teams	Alexey Zhelepov, Nadezhda Yarushkina		
	A Fuzzy Measure I	Based Approach to Scenario Evaluation	Ozgur Yanmaz, Umut Asan Mohammad Yazdi, Arman Nedjati, Noorbakhsh Amiri Golilarz, Kehinde A.		
	Fuzzy Pythagorea	n fuzzy Bayesian Decision making of maintenance strategy selection in offshore sectors	Adesina		
Aug. 26, 2021 (DAY 3) Parallel Session 2					
	Session Chair	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr)	Meeting ID: to be announced		
	Session Chair Session Name	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis			
	Session Name	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis Paper Title	Authors		
UTC+3	Session Name An Analysis of Dat	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis Paper Title a Production based on the Consistency of Decision Matrices	Authors Bekir Sahin, Anis Yazidi, Md Zia Uddin, Dumitru Roman, Ahmet Soylu		
UTC+3 15:15-16:45	Session Name An Analysis of Dat Rules Induced Usi	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis Paper Title a Production based on the Consistency of Decision Matrices ng Possible Coverings from Incomplete Data Sets	Authors Bekir Sahin, Anis Yazidi, Md Zia Uddin, Dumitru Roman, Ahmet Soylu Michinori Nakata, Norio Saito, Hiroshi Sakai, Takeshi Fujiwara		
	An Analysis of Dat Rules Induced Usi Development and	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis Paper Title a Production based on the Consistency of Decision Matrices ng Possible Coverings from Incomplete Data Sets implementation of an algorithm for processing fuzzy queries to relational databases.	Authors Bekir Sahin, Anis Yazidi, Md Zia Uddin, Dumitru Roman, Ahmet Soylu Michinori Nakata, Norio Saito, Hiroshi Sakai, Takeshi Fujiwara Ramiz Alekperov		
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	An Analysis of Dat Rules Induced Usi Development and Investigation of Tu Systematic Literat Session Chair	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis Paper Title a Production based on the Consistency of Decision Matrices ng Possible Coverings from Incomplete Data Sets implementation of an algorithm for processing fuzzy queries to relational databases. urkish Literary Poetry by Unsupervised Text Mining Methods ure Review For Data-Driven Security Solutions of Self Scanning Applications In Retail Sector Aug. 26, 2021 (DAY 3) Parallel Session 3 Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanır@altinbas.edu.tr)	Authors Bekir Sahin, Anis Yazidi, Md Zia Uddin, Dumitru Roman, Ahmet Soylu Michinori Nakata, Norio Saito, Hiroshi Sakai, Takeshi Fujiwara Ramiz Alekperov Ayse Nisa Akgun, Zeynep Deren Calisir, Tolga Kaya		
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15:15-16:45	An Analysis of Dat Rules Induced Usi Development and Investigation of Tu Systematic Literat Session Chair Session Name No-Wait Flow Sho	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis Paper Title a Production based on the Consistency of Decision Matrices ng Possible Coverings from Incomplete Data Sets implementation of an algorithm for processing fuzzy queries to relational databases. arkish Literary Poetry by Unsupervised Text Mining Methods ure Review For Data-Driven Security Solutions of Self Scanning Applications In Retail Sector Aug. 26, 2021 (DAY 3) Parallel Session 3 Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanır@altinbas.edu.tr) SS7.1 Fuzzy Scheduling Paper Title p Scheduling Problem with Setup Time in Fuzzy Environment	Authors Bekir Sahin, Anis Yazidi, Md Zia Uddin, Dumitru Roman, Ahmet Soylu Michinori Nakata, Norio Saito, Hiroshi Sakai, Takeshi Fujiwara Ramiz Alekperov Ayse Nisa Akgun, Zeynep Deren Calisir, Tolga Kaya Ridvan Ozkiris, Gizem Omeroglu Meeting ID: to be announced Authors Ramazan Başar, Orhan Engin		
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UTC+3 15:15-16:45	An Analysis of Dat Rules Induced Usi Development and Investigation of Tu Systematic Literat Session Chair Session Name No-Wait Flow Sho Unfolding fuzzy te Fuzzy Hybrid Flow Fuzzy resource-co Session Chair Session Name Heart Disease Pred	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis Paper Title a Production based on the Consistency of Decision Matrices ing Possible Coverings from Incomplete Data Sets implementation of an algorithm for processing fuzzy queries to relational databases. urkish Literary Poetry by Unsupervised Text Mining Methods ure Review For Data-Driven Security Solutions of Self Scanning Applications In Retail Sector Aug. 26, 2021 (DAY 3) Parallel Session 3 Sukran Seker-Elif Haktanır (sseker@yildiz.edu.tr, elif.haktanir@altinbas.edu.tr) SS7.1 Fuzzy Scheduling Paper Title p Scheduling Problem with Setup Time in Fuzzy Environment mporal computational graph for project scheduling problem v Shop Scheduling Problem: An Application instrained project scheduling under learning considerations Aug. 26, 2021 (DAY 3) Parallel Session 4 Basar Oztaysi-Onur Doğan (oztaysib@itu.edu.tr, onur.dogan@bakircay.edu.tr) SS13.2 Prediction and Estimation Paper Title diction and Hybrid GANN	Authors Bekir Sahin, Anis Yazidi, Md Zia Uddin, Dumitru Roman, Ahmet Soylu Michinori Nakata, Norio Saito, Hiroshi Sakai, Takeshi Fujiwara Ramiz Alekperov Ayse Nisa Akgun, Zeynep Deren Calisir, Tolga Kaya Ridvan Ozkiris, Gizem Omeroglu Meeting ID: to be announced Authors Ramazan Başar, Orhan Engin Margarita Knyazeva, Alexander Bozhenyuk, Vitalii Bozheniuk Meral İşler, Orhan Engin Meral Güldeş, Ugur Atici, Cenk Şahin Meeting ID: to be announced Authors Rahul Kumar Jha, Dr Santosh Kumar Henge, Ashok Sharma		
UTC+3 15:15-16:45	An Analysis of Dat Rules Induced Usi Development and Investigation of Tu Systematic Literat Session Chair Session Name No-Wait Flow Sho Unfolding fuzzy te Fuzzy Hybrid Flov Fuzzy resource-co Session Chair Session Name Heart Disease Pree Ensemble Learnin	Sezi Cevik Onar-Veysel Coban (sezi@outlook.com, veysel.coban@bilecik.edu.tr) SS24.1 Intelligent and Fuzzy Data Analysis Paper Title a Production based on the Consistency of Decision Matrices Ing Possible Coverings from Incomplete Data Sets Implementation of an algorithm for processing fuzzy queries to relational databases. Inkish Literary Poetry by Unsupervised Text Mining Methods Interest Poetry by Unsupervised Text Mining Me	Authors Bekir Sahin, Anis Yazidi, Md Zia Uddin, Dumitru Roman, Ahmet Soylu Michinori Nakata, Norio Saito, Hiroshi Sakai, Takeshi Fujiwara Ramiz Alekperov Ayse Nisa Akgun, Zeynep Deren Calisir, Tolga Kaya Ridvan Ozkiris, Gizem Omeroglu Meeting ID: to be announced Authors Ramazan Başar, Orhan Engin Margarita Knyazeva, Alexander Bozhenyuk, Vitalii Bozheniuk Meral İşler, Orhan Engin Meral Güldeş, Ugur Atici, Cenk Şahin Meeting ID: to be announced Authors		

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	Spatial prediction	and digital mapping of Soil texture classes in a flood plain using multinomial logistic regression	Fuat Kaya, Levent Başayiğit		
	Predicting Performance of Legal Debt Collection Agency		Nilüfer Altınok, Elmira Farrokhizadeh, Ahmet Tekin, Basar Oztaysi, Sara		
	Predicting Periori	nance of Legal Debt Collection Agency	Ghazanfari Khameneh, Sezi Cevik Onar, Özgür Kabak		
	Aug. 26, 2021 (DAY 3) Parallel Session 5				
	Session Chair	Selcuk Cebi-Esra Ilbahar (scebi@yildiz.edu.tr, esrailbahar@gmail.com)	Meeting ID: to be announced		
	Session Name	SS24.2 Intelligent and Fuzzy Data Analysis			
		Paper Title	Authors		
UTC+3	Sales Promotion E	ffectiveness: The Impact of Category - Brand Level Price Promotions on Sales Performance of a Large F	R Ömer Zeybek, Burç Ülengin		
15:15-16:45	Enabling Big Data	Analytics and AI Solutions for Smart Warehouse	Nihal Er, Gizem Melike Cidal, Simge Ünsal, Altan Çakır		
	Fuzzy Spatio-Temporal Data Analysis on Disease Outbreaks and Air Transportation		Mohammad Khodizadeh-Nahari, Nasser Ghadiri, Ali Ghadiri		
	An Approach Base	d on Feature Selection for Missing Value Imputation	Emrah Sezer, Hülya Basegmez		
	Deduction of Frau	dulent Financial Reporting using Fuzzy Based Models	Selcuk Cebi, Nihal Aktas		
	COFFEE BREAK				
UTC+3		AWARD CEREMONY SESSION, Meeting ID: to	he announced		
17:00-17:45	AWARD CEREMONY SESSION Meeting ID: to be announced				