



İZMİR DEMOCRACY UNIVERSITY
INTERNATIONAL IDU ENGINEERING SYMPOSIUM
IES'20 INDUSTRIAL ENGINEERING TOPICS
December 12, 2020

PROGRAM

KEYNOTE SPEECH	
10:00-10:40	Real-time order acceptance and scheduling considering process interruptions Dr. Humyun Fuad Rahman, Systems Engineering and Project Management, UNSW, Australia

11:00-12:00	PANEL: The Future of Industrial Engineering
Chair	Prof. Dr. Adil Baykasoğlu, Dokuz Eylül University
Speaker	Prof. Dr. Alev Taşkın Gümüş, Yıldız Teknik University
Speaker	Doç. Dr. Eren Özceylan, Gaziantep University
Speaker	Dr. Öğr. Üyesi Adalet Öner, Yaşar University

KEYNOTE SPEECH	
12:30-13:00	Predictive maintenance cost model for CNC SMEs in Industry 4.0 era Dr. Mukund Janardhanan, Lecturer at University of Leicester, United Kingdom



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13:15-14:30	ID	SESSION-I
13:15-13:30	11	Capability-based distributed layout design with random machine availability and fuzzy demand/process flow data Kemal Subulan, Bilge Varol, Adil Baykasoğlu
13:30-13:45	34	Augmenting Technology Roadmaps by using Type-2 Fuzzy Logic Semanur Barip, Koray Altun
13:45-14:00	70	Analyzing Factors Affecting Employee Performance using Fuzzy Cognitive Maps: An application in a gas distribution company Sevde Akay, Gülesin Sena Daş
14:00-14:15	155	Modeling of Cutting Tool Wear in Turning Process with Fuzzy Logic Meryem Gamze Mutlu, Hakan Altunay
14:15-14:30	81	Real-time process control in robotic gas metal arc welding: An automotive industry case Mine Bozan, Koray Altun

13:15-14:30	ID	SESSION-II
13:15-13:30	107	A VIKOR-based Approach for Detergent Selection Problem from Sustainability Perspective Bengü Güngör, A. Serdar Taşan
13:30-13:45	121	Analytical Networking Process Application for Network Selection through Open Innovation Bengü Güngör
13:45-14:00	14	Location selection for solar farms using multi-attribute models: A case study for Tunceli province Yunus Emre Aykaç, Melih Yücesan, Muhammet Gül
14:00-14:15	113	Customer satisfaction analysis with SERVQUAL method in a hotel business Dursun Balkan
14:15-14:30	171	Removal of Radioactive Gas by Zeolite Filter From Nuclear Power Plants Ahmet Erdal Osmanlıoğlu



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14:45-16:00	ID	SESSION-III
14:45-15:00	12	Designing dartboards with genetic algorithms Bilge Varol, Adil Baykasoğlu, Kemal Subulan
15:00-15:15	19	Constraint programming approach for a multi-mode resource-constrained discrete time-cost tradeoff problem Gizem Çakır, Ceren Asilkefeli, Şeyda Topaloğlu Yıldız, Kemal Subulan
15:15-15:30	86	A Constraint Programming Approach for Orienteering Problem with Time-Window Eyüp Ensar Işık, Ertuğrul Ayyıldız, Alev Taşkın Gümüş
15:30-15:45	20	A constraint programming-based transformation approach for a fuzzy-stochastic resource investment project scheduling problem with an application to ERP project management Kemal Subulan, Gizem Çakır
15:45-16:00	60	Simülasyon ile Kayıp Tahmin Analizi; Kırıkkale Kent Örneği Zeynep Çakırer, Ümit Sami Sakallı

14:45-16:00	ID	SESSION-IV
14:45-15:00	71	Karışık Bloklamalı Akış Tipi Çizelgeleme Problemi için Uyarlanabilir Büyük Komşuluk Arama Sezgiseli Damla Kızılay, Zeynel Abidin Çil
15:00-15:15	130	Tedarik Zincirinde Toplu Teslimat ile Çizelgeleme Analizi Damla Kızılay, Zeynel Abidin Çil, Humyun Fuad Rahman, Mukund Janardhanan
15:15-15:30	125	Bozulabilir Gıdaların Dağıtım Problemi Damla Yüksel, Damla Kızılay, Hande Öztop
15:30-15:45	170	Bilimsel Parametreler Açısından Ülkelerin Teknolojik – Dijital Rekabet Olanaklarının Karşılaştırılması Müge Bulu



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16:15-17:30	ID	SESSION-V
16:15-16:30	83	Pisagor Bulanik Kümeleri İçeren Bulanik Ahp Yöntemiyle Tedarikçi Seçimi Selin Yalçın, Sebahattin Kerem Aytulun, Selin Topdemir
16:30-16:45	93	Supplier Selection in Hospitality Industry with Analytical Hierarchy Process (AHP) Method Yusuf Ersoy
16:45-17:00	89	Makine Öğrenmesi ile İhlalci Analizi Özlem Güven
17:00-17:15	105	Ayakkabı Üretiminde Saya Dikim İşlemlerinde Öğrenme Etkisinin Belirlenmesi Muhittin Ervüz, İzzettin Hakan Karaçizmeli
17:15-17:30	88	Corporate innovation: Towards an "innovation excellence model" Koray Altun

16:15-17:30	ID	SESSION-VI
16:15-16:30	18	Pricing and revenue management in car parks: Literature review and a model proposal Elif Ercan, Adil Baykasoğlu
16:30-16:45	48	Forecasting the Availability of Empty Parking Spaces in an Urban District Durdu Hakan Utku, Elifnur Kaya
16:45-17:00	26	A Practical Implementation for Big Data Mining and Sentiment Analysis Ceren Asilkefeli, Şebnem Demirkol Akyol
17:00-17:15	32	Yalin Alti Sigma Teknikleri ve Otomotiv Yan Sanayi Firmasinda Uygulama Fatma Karasu Alkuş, Şebnem Demirkol Akyol