



GJCIE 2022 Conference Program

29 – 30 OCTOBER 2022

“INDUSTRIAL ENGINEERING IN THE COVID-19 ERA”



GJCIE 2022

Global Joint Conference on Industrial Engineering and Its Application Areas


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CONFERENCE PROGRAM


29 October 2022, Saturday

08:50– 09:00 	Welcome Address by Fethi Calisir – Conference Chair
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09:00 – 10:00 	Keynote Session
Tugrul U. Daim, PhD Portland State University Title: “Digital Transformations: Evaluating Emerging Technologies”	

10:00 – 10:15	BREAK
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10:15 – 11:15 	Parallel Session - I
Chair – Fethi Calisir	
ID: 03	Algorithms for Multiple Autonomous Robotic Systems in Warehouse Order Picking Operations: A General Review Zehra Duzgit Ayhan Ozgur Toy
ID: 11	E-Grocery Challenges and a Solution Approach from Multi-objective Perspectives Laura Foresti Sara Perotti Banu Y. Ekren Lorenzo B. Prataviera
ID: 33	Product Recovery Option Evaluation for Different Departmental Objectives Via Fuzzy AHP Sevan Katrancioğlu Huseyin Selcuk Kilic Cigdem Alabas Uslu

10:15 – 11:15 	Parallel Session – II
Chair – Murat Durucu	
ID: 23	A Novel Hesitant Fuzzy Association Rule Mining Model Elmira Farrokhzadeh Basar Oztaysi
ID: 32	Evaluating the criteria in the dimensions of the Kraljic purchasing portfolio matrix Ahmet Selcuk Yalcin Emre Cevikcan
ID: 35	Predicting Sovereign Credit Ratings Using Machine Learning Algorithms Mehmet Ekmekcioglu Tolga Kaya Kaya Tokmakcioglu




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11:15 – 11:30	BREAK
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11:30 – 12:10	Parallel Session – III	
	Chair – Fethi Calisir	
ID: 13	Healthcare Waste Disposal Method Selection in the Era of COVID-19: A Novel Spherical Fuzzy CRITIC TOPSIS Approach	Akin Menekse Hatice Camgoz Akdag
ID: 14	Online Learning and Lab Courses vs. Traditional Ones in Chemistry during the COVID-19 Pandemic: The Comparative Perceptions of the Undergraduate Students	Ferah Calisir Fethi Calisir

11:30 – 12:10	Parallel Session – IV	
	Chair – Murat Durucu	
ID: 28	Digital Twins for Decision Making in Supply Chains	Oray Kulac Banu Y. Ekren A. Ozgur Toy
ID: 29	Micro-fulfilment Centres in E-Grocery Deliveries	Ventola Alessandro Tinor Mirko Perotti Sara Banu Y. Ekren Hendrik Reefke

12:10 – 13:40	LUNCH BREAK
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13:40 – 14:40	Parallel Session - V	
	Chair – Fethi Calisir	
ID: 06	A Comparison between Linear and Non-Linear Combinations of Priority Rules for Solving Flexible Job Shop Scheduling Problem	Aydin Teymourifar Jie Li Dan Li Taicheng Zheng
ID: 07	A Comparison between Two Definitions of Idle Time in Offline Scheduling of Flexible Job Shop Problem	Aydin Teymourifar Jie Li Dan Li Taicheng Zheng
ID: 34	A Comparative Analysis of Apriori and FP-Growth Algorithms for Market Basket Analysis using Multi-level Association Rule Mining	Dilara Alcan Kubra Ozdemir Berkay Ozkan Ali Yigit Mucan Tuncay Ozcan




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13:40 – 14:40	Parallel Session – VI	
	Chair – Murat Durucu	
ID: 09	Supplier Selection with Fuzzy TOPSIS- A Case Study on a Pharmacy in Izmir	Gamze Erdem Gozde Ulutagay Mert Paldrak
ID: 21	Supplier Selection with Fuzzy Analytical Hierarchy Process	Gozde Ulutagay Merve Yildiz Ozen
ID: 22	Determining Graduate Level University Selection Criteria Weights by Using Type-2 Fuzzy AHP	Zeynep Burcu Kizilkan Basar Oztaysi

14:40 – 14:55	BREAK	
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14:55 – 15:55	Parallel Session - VII	
	Chair – Fethi Calisir	
ID: 15	A System Proposal for Monitoring Ergonomic Risks at Workstations in a Manufacturing Company	Tugba Delice Fethi Calisir
ID: 24	Inventory and Maintenance Optimization of Conditional Based Maintenance using Fuzzy Inference System	Berk Kaya Gozde Ulutagay
ID: 30	The Impacts of COVID-19 on Turkish Real Estate Industry: Perception vs. Reality	Levent Sumer

14:55 – 15:55	Parallel Session – VIII – (in Turkish)	
	Chair – Murat Durucu	
ID: 12	Evaluation of Understandability of the Concept of Sustainability by Companies: Automotive Sector Spare Parts Industry	Emel Yontar Fatma Ersoy Duran
ID: 31	Usability Evaluation of Maritime Websites with Different End User Groups	Muhittin Orhan Ayse Elvan Bayraktaroglu

15:55 – 16:10	BREAK	
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16:10 – 17:10		Parallel Session - IX
		Chair – Fethi Calisir
ID: 01	A Stochastic Multi-Objective Model for Sustainable Soybean Supply Chain Network Configuration	Ebrahim Sharifi Saman Hassanzadeh Amin Liping Fang
ID: 02	An Integrated Supplier Selection and Order Allocation Framework Using Machine Learning, Fuzzy SWOT, and Optimization Models	Samiul Islam Saman H Amin Leslie J Wardley
ID: 17	A Novel Arc-routing Optimization Model for Residential Waste Collection Problem with Time Windows, Vehicle-Arc Compatibility, and Fullness Information	Selen Burcak Akkaya Mahmut Ali Gokce

16:10 – 17:10		Parallel Session – X
		Chair – Murat Durucu
ID: 08	Demand Forecasting using Machine Learning and Deep Learning approaches in the Retail Industry: A comparative study	Asma ul Husna Saman Hassanzadeh Amin Ahmad Ghasempoor
ID: 20	Demand Forecasting of Spare-parts Using the Data Mining Techniques	Ilker Mutlu Gozde Ulutagay
ID: 27	Evaluating the Quality of Water & Performance of WTPs in Iraq Using RII & TOPSIS Methods	Ayad Al-Mohammedi Gozde Ulutagay

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