



GJCIE 2023 Conference Program

14 – 16 AUGUST 2023

“INDUSTRIAL ENGINEERING IN THE SUSTAINABILITY ERA”



GJCIE 2023

Global Joint Conference on Industrial Engineering and Its Application Areas

14 – 16 August 2023

“Industrial Engineering in the Sustainability Era”

CONFERENCE PROGRAM

14 August 2023, Monday

08:50– 09:00	Welcome Address by Fethi Calisir – Conference Chair
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09:00 – 10:00	Keynote Session
ROOM – 222	
Joshua Bosire Vice President, Cooper University Health Care	

10:00 – 10:15	BREAK
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10:15 – 11:15	Parallel Session - I	
ROOM – 222	Chair – Fethi Calisir	
ID: 05	A Procedure to Conceive Projectified Supply Chains Using Intelligent Models	Julio Macedo
ID: 06	The Effects of Family-Friendly Policies on Job Satisfaction and Organizational Commitment of Working Mothers in Turkey	Ahmet Burak Erten Basak Cetinguc Fethi Calisir Cicek Ersoy
ID: 07	Vehicle Routing Problem with Time Windows and Multiple Pick-up and Delivery Locations	Lijian Xiao

10:15 – 11:15	Parallel Session – II	
ROOM – LH 206	Chair – Mohammad T Khasawneh	
ID: 02	Technology Value Chain Management for Defense 4.0	Kivilcim Ersoy
ID: 27	Distributed Systems and Surge of Entrepreneurial Activities	Peiman A. Sarvari Sebastien Martin Djamel Khadraoui Gulcan Baskurt
ID: 28	Next-Generation Infrastructure and Application Scaling: Enhancing Resilience and Optimizing Resource Consumption	Peiman A. Sarvari Djamel Khadraoui Sebastien Martin Gulcan Baskurt



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11:15 – 11:30	BREAK
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11:30 – 12:10	Parallel Session – III	
ROOM – 222	Chair – Fethi Calisir	
ID: 10	Positioning of the Supplied Items in the Kraljic Portfolio Matrix	Ahmet Selcuk Yalcin Emre Cevikcan Huseyin Selcuk Kilic
ID: 20	Risk-Return Performances of Sustainability and REIT Indices: Evidence from the Turkish Real Estate Market	Levent Sumer

11:30 – 12:10	Parallel Session – IV	
ROOM – LH 206	Chair – Mohammad T Khasawneh	
ID: 09	A Psychophysical Approach for Predicting Isometric Endurance Limit. in the Jordanian Diabetes Mellitus Patients	Hesham Al Momani Osama T Al Meanazel Mazin H Obaidat Ahmad H Almomani Marya H Almomani Atif Khazaleha Abdallah Alalawin
ID: 11	Transformers with Decomposition-Based Self-Attention for Nonstationary Time Series Forecasting	Hao Wang Yuxin Yang Yu Jin

12:10 – 13:40	LUNCH BREAK
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13:40 – 14:40	Parallel Session - V	
ROOM – 222	Chair – Fethi Calisir	
ID: 01	Impact of Covid-19 Pandemic on Demand and Demand Forecasting in a Furniture Wholesale Company	Riadh Al-Haidari Shrouq Al-Rawashdeh Adam Zeidan Joshua Omambala Nagendra Nagarur
ID: 16	Patient Flow Redesign in a Hospital Lobby: Combining Discrete Event Simulation and Multi-Criteria Decision Analysis	Maryam Hosseini Alice Gittler Adrienne Erdman Daquan Sisco Mohammad T Khasawneh
ID: 18	Using Lean Tools to Reduce Patient Length of Stay in Inpatient Settings	Duxiao Hao Wen Cao Mohammad T Khasawneh



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13:40 – 14:40		Parallel Session – VI	
ROOM – LH 206		Chair – Mohammad T Khasawneh	
ID: 13	Collation Tube Utilization Prediction in Central Fill Pharmacy through Discrete Markov Chains	Shao-Cih Wu Yuxin Yang Yu Jin	
ID: 15	Sustainable Development in the United States: Investigating the Relationship between Key Socioeconomic Factors and Carbon Dioxide Emissions	Farah Altarazi Shuxia Lu	
ID: 23	Reflow Target Profile Adjustment and Recipe Optimization for Better Self-Alignment Performance – A Experimental Study	Zhenxuan Zhang Jaewoo Kim Abdelrahman Farrag Yu Jin Sang Won Yoon Daehan Won	

14:40 – 14:55		BREAK	
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14:55 – 15:35		Parallel Session - VII	
ROOM – 222		Chair – Fethi Calisir	
ID: 14	Risk Tradeoffs in Supplier Selection: A Discrete Choice Experiment	Behnam Fahimnia Andrew Collins Brent Moritz	
ID: 19	COVID-19 Patient Volume Prediction Using Time Series Modeling	Duxiao Hao Wen Cao Mohammad T Khasawneh	

14:55 – 15:35		Parallel Session – VIII	
ROOM – LH 206		Chair – Mohammad T Khasawneh	
ID: 24	Traffic Flow Simulation Using Burgers Equation	Malak Fora Rahul Gupta Ye Chen Saif Al-Nimer Congyu Wu	
ID: 30	Lean Production Kanban Digitization for Discrete Manufacturing Systems	Anas Abujaber Abdulraqeb Al-Sarori Zimo Wang Yong Wang Sang Won Yoon Chris Schillo Amanda Jackson	



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15:35 – 15:55		Poster Session	
ROOM – 222			
ID: 04	Smart Assembly Workstations as Enablers of Industry 4.0 and 5.0 in Croatian Manufacturing Companies	Miro Hegedić Matija Golec Mihael Gudlin Petar Gregurić Borna Škrlec	
16:00 – 16:30		Award Ceremony	

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