



GJCIE 2017

Global Joint Conference on Industrial Engineering and Its Application Areas

20 – 21 July 2017 – Vienna, Austria

“Industrial Engineering in the Industry 4.0 Era”

Final Program

20 July 2017, Thursday

09:00 – 16:00	Registration	
09:15 – 09:30 Room: Paris & Wien	Welcome Address by Fethi Calisir	
09:30 – 10:30	Keynote Session - I	
Room: Paris & Wien		
Hilda Tellioglu, PhD		
<ul style="list-style-type: none"> • Dean of Academic Affairs for Computer Science • Head of the Multidisciplinary Design Group 		
Institute of Design and Assessment of Technology, Vienna University of Technology		
Title: Design Thinking in Product Design and Development		
10:30 – 11:00	Coffee Break	
11:00 – 12:30	Parallel Session - I	
Room: Paris & Wien	Chair: Orhan Korhan	
ID: 33	A Dynamic Model to Evaluate the Use of Community Services to Treat Patients with Parkinson’s Disease	Reda M. Lebcir
ID: 47	Relation of Grip Style to the Onset of Elbow Pain in Tennis Players	Peiman Alipour Sarvari Fethi Calisir Selim Zaim
ID: 50	Application of Lean Principles on Hospitals: A Process Design in the Emergency Department	Hatice Camgoz Akdag Cansu Ozge Kaya Gizem Savuran Nuh Zafer Canturk



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12:30 – 14:00	Lunch Break – Prinz von Savoyen
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14:00 – 15:30		Parallel Session - II
Room: Paris & Wien		Chair: Fahrettin Eldemir
ID: 5	Physical Discomfort Experienced in Traditional Education and Tablet-Assisted Education: A Comparative Literature Analysis	Banu Numan Uyal Elif Binboga Yel Orhan Korhan
ID: 38	Musculoskeletal Discomfort Experienced by Children/Adolescents during Use of ICT: A Statistical Analysis on Exposure Periods and Purposes	Banu Numan Uyal Elif Binboga Yel Orhan Korhan
ID: 39	Effect of Operator and Task Variables on the Heart Rate Recovery Time in a Simple Lifting Task	Fereydoun Aghazadeh Milad Amini Laura Ikuma

14:00 – 15:30		Parallel Session - III
Room: Turin		Chair: Reda M. Lebcir
ID: 3	Applied and Theoretical Approach to the Process Oriented Basis Representation Method	Kenan Orcanli Burak Birgoren Erkan Oktay
ID: 18	Implementing EWMA Yield Index for Product Acceptance Determination in Autocorrelation between Linear Profiles	Yeneneh Tamirat
ID: 30	Development of Thermal Power Plant Safety Production Management Support System	Hao Ren Guang Zhao Jintao Lv Hongyu Yun Wei Ge YiXue Chen

15:30 – 16:00	Coffee Break
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16:00 – 17:30		Parallel Session - IV
Room: Paris & Wien		Chair: Murat Durucu
ID: 14	Storage and Retrieval Machine with Elevated Track Opens New Applications in Warehouse Technology and Material Supply	Reinhard Koether
ID: 51	Analyzing Recycling Operations Data of White Appliances Industry in Turkish Market	Alperen Bal Peiman Alipour Sarvari Sule Itir Satoglu
ID: 53	Q-R Policy Application for Non-Smooth Demand Of Aviation Industry	Fahrettin Eldemir Merve Sahin

16:00 – 18:00	Parallel Session - V
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Room: Turin		Chair: Basak Cetinguc
ID: 31	Evaluating Airline Network Robustness Using Relative Total Cost Indices	Peiman Alipour Sarvari Fethi Calisir
ID: 32	Future Research and Suggestions Based on Maritime Inventory Routing Problem	Elifcan Gocmen Ebru Yilmaz
ID: 34	Lean Transformation Integrated with Industry 4.0 Implementation Methodology	Sule Satoglu Alp Ustundag Emre Cevikcan Mehmet Bulent Durmusoglu
ID: 35	Selecting the Best Strategy for Industry 4.0 Application with a Case Study	Melike Erdogan Betul Ozkan Ali Karasan İhsan Kaya



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21 July 2017, Friday

09:00 – 16:00	Registration
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09:30 – 10:30	Keynote Session II
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Room: Paris & Wien

Mohammad T. Khasawneh, PhD

- Professor & Chair, Systems Science and Industrial Engineering
- Associate Director, Watson Institute for Systems Excellence
- Director, Healthcare Systems Engineering Center
- Graduate Program Director, Executive Master of Science in Health Systems
- Graduate Program Director, Industrial and Systems Engineering

Thomas J. Watson School of Engineering and Applied Science, State University of New York at Binghamton

Title: Healthcare Systems Engineering and Data Science Research and Development

10:30 – 11:00	Coffee Break
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11:00 – 12:30	Parallel Session - VI
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Room: Paris & Wien

Chair: Cigdem Altin Gumussoy

ID: 7	The Influence of the Strategic Planning Approach on the Research Agenda of R&D Organizations	Husam Arman
ID: 48	Radiologists' Perspective on the Importance of Factors for MRI System Selection	Gulsah Hancerliogullari Cuneyt Calisir Murat Durucu Fethi Calisir
ID: 52	The Relationships among the Prominent Indices: HDI-GII-GCI	Basak Cetinguc Eyup Calik Lutfihak Alpkan Fethi Calisir



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11:00 – 12:30		Parallel Session – VII	
Room: Turin		Chair: Peiman Alipour Sarvari	
ID: 2	A 2-phase Optimization Approach for Reducing the Size of the Cutting Problem in Box Production Industries: A Case Study	Sam Mosallaeipour Ramtin Nazerian Mazyar Ghadirinejad	
ID: 10	A Decision Support System for Managing Customer Relationships in Business-to-Business Markets	Hulya Gucdemir Hasan Selim	
ID: 22	Why Statistics and Related Areas Are Necessary and Inevitable in Industrial Engineering	Fetih Yildirim	

12:30 – 14:00	Lunch Break – Prinz von Savoyen		
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14:00 – 15:30		Parallel Session – VIII	
Room: Paris & Wien		Chair: Fetih Yildirim	
ID: 36	Effect of Organizational Justice on Job Satisfaction	Aylin Ozel Cahit Ali Bayraktar	
ID: 37	Importance of Developing a Decision Support System for Diagnosis of Glaucoma	Murat Durucu	
ID: 41	Determinants of Mobile Banking Use: An Extended TAM with Perceived Risk, Mobility Access, Compatibility, Perceived Self-efficacy and Subjective Norms	Cigdem Altin Gumussoy Aycan Kaya Erhan Ozlu	

14:00 – 15:30		Parallel Session - IX	
Room: Turin		Chair: Gulsah Hancerliogullari	
ID: 11	Game-Day Scheduling Problem for Sports Events	Burak Cavdaroglu Duygu Bilgesu	
ID: 17	Nurse Scheduling with Shift Preferences in a Surgical Suite using Goal Programming	Esra Agca Aktunc Elif Tekin	
ID: 46	A Closed Loop Sustainable Supply Chain Network Design with System Dynamics for Waste Electrical & Electronic Equipment	Gokhan Aldemir Tugce Beldek Dilay Celebi	

15:30 – 16:00	Coffee Break		
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16:00 – 17:30		Parallel Session - X	
Room: Paris & Wien		Chair: Emre Cevikcan	
ID: 8	Behavioral Studies in Revenue Management	Nur Cavdaroglu Ummuhan Akbay	
ID: 12	A Note on Fuzzy Multiattribute Grey Related Analysis Using DEA	Mohammad Sadegh Pakkar	
ID: 45	A Closed Loop Reverse Supply Chain Network Design for Waste Electrical & Electronic Equipment	Gokhan Aldemir Bersam Bolat	

16:00 – 16:30		Poster Session	
Room: Turin			
ID: 42	Storage Capacity Planning for the Regional Blood Banking System via Simulation-Optimization Approach	Yusuf Kuvvetli Elifcan Gocmen	

18:00 – 20:00		Gala Dinner – Prinz von Savoyen	
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