GJCIE 2018

Global Joint Conference on Industrial Engineering and Its Application Areas

21 – 22 June 2018 – Perissia Hotel & Convention Center, Urgup-Nevsehir, Turkey

"Industrial Engineering in the Big Data Era"

FINAL PROGRAM

21 June 2018, Thursday

09:00 – 16:00	Registration

09:15 – 09:30 Room: 1	Welcome Address by Fethi Calisir

09:30 – 11:00	Parallel Session - I	
Room: Sobesos	**Chair – Sule Itir Satoglu**	
ID: 26	Determining the Importance Levels for Each Process in Overall Throughput Effectiveness Calculation using Hybrid Evolutionary Algorithm	Duygu Yılmaz Eroglu
ID: 33	Application of Data Mining Techniques to Immigration Data	Burcu Caglar Gencosman Tulin Inkaya
ID: 73	Analysis of Frequent Visitor Patterns in a Shopping Mall	Onur Dogan Omer Faruk Gurcan Basar Oztaysi Ugur Gokdere

09:30 – 11:00	Parallel Session - II	
Room: Sinasos	**Chair – Esra Agca Aktunc**	
ID: 83	Big Data Concept in Small and Medium Enterprises: How Big Data Effects Productivity	Ahmet Tezcan Tekin Nedime Lerzan Ozkale Basar Oztaysi
ID: 93	Usability Measurement of Mobile Applications with System Usability Scale (SUS)	Aycan Kaya Reha Ozturk Cigdem Altin Gumussoy
ID: 97	Factors Affecting Intention to Use Big Data Tools: An Extended Technology Acceptance Model	Serap Okcu Gulsah Hancerliogullari Koksalmis Ecem Basak Fethi Calisir

09:30 – 11:00	Parallel Session - III	
Room: Nissa	**Chair – Tonguc Unluyurt**	
ID: 49	Measuring the Impact of University Service Quality on Academic Motivation and University Engagement of Students	Fatma Kutlu Gundogdu Umut Asan
ID: 51	Blockchain Technology for Improvement of SCM and Logistics Services: A Survey	Adnan Imeri Djamel Khadraoui Nazim Agoulmine
ID: 84	A Customer Satisfaction Study in an Airline Company Centered in Turkey	Omer Faruk Gurcan Omer Faruk Beyca Abdullah Fatih Akcan Selim Zaim

11:00 – 11:30	COFFEE BREAK

11:30 – 13:00	Parallel Session - IV	
Room: Sobesos	**Chair – Duygu Yilmaz Eroglu**	
ID: 29	Multi-Criteria Selection Analysis of the City Buses at Municipal Transportation	Fuat Kosanoglu Alperen Bal
ID: 80	A Literature Review for Hybrid Vehicle Routing Problem	Busra Gulnihan Dascıoglu Gulfem Tuzkaya
ID: 100	Simulation Modelling of an Information System for Casualty Transportation and RFID-Based Tracking in Large Scale Disasters	Nadide Caglayan Sule Itir Satoglu

11:30 – 13:00	Parallel Session - V	
Room: Sinasos	**Chair – Adnan Imeri**	
ID: 12	Comparison of Isotropic and Anisotropic Models for Solar Radiation on Sloped Surfaces Under Fuzzy Logic	Veysel Coban Sezi Cevik Onar
ID: 92	Short Term Electricity Load Forecasting with Nonlinear Autoregressive Neural Network with Exogenous Variables (NarxNet)	İbrahim Yazıcı Leyla Temizer, Omer Faruk Beyca
ID: 86	Implementation of Capital Budgeting in Hydraulics Industry	Selen Avci Cansu Aydin Atakan Alkan Zerrin Aladag

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11:30 – 13:00	Parallel Session – VI *(In Turkish)*	
Room: Nissa	Chair – Murat Durucu	
ID: 53	Determination of the Specialty Department in Medicine by Using Fuzzy TOPSIS Method	Selen Avci Sevil Gunel Atakan Alkan Zerrin Aladag
ID: 67	Evaluating Service Quality of an Airline Maintenance Company by Applying Fuzzy-AHP	Yavuz Selim Ozdemir Tugce Oktay
ID: 71	A Fuzzy Based Risk Evaluation Model for Industry 4.0 Transition Process	Murat Colak Ihsan Kaya Melike Erdogan

13:00 – 14:30	LUNCH BREAK – KAPADOKYA RESTAURANT

14:30 – 16:00	Parallel Session - VII	
Room: Sobesos	Chair – Emine Yaylali	
ID: 16	A Mathematical Programming Model for Maritime Inventory Routing Problem	Elifcan Gocmen Ebru Yilmaz Rızvan Erol
ID: 34	A New Genetic Algorithm Improved with Heuristic Methods and Reinforcement Learning to Solve the Symmetric Traveling Salesman Problem	Gulnihal Ucarkus Burcu Caglar Gencosman
ID: 74	Estimating the Expected Cost of Function Evaluation Strategies	Rebi Daldal Zahed Shahmoradi Tonguc Unluyurt

14:30 – 16:00	Parallel Session - VIII	
Room: Sinasos	Chair – Fereydoun Aghazadeh	
ID: 31	A Mathematical Model and a Matheuristic for In-Plant Milk-Run Systems Design and Application in White Goods Industry	Kadir Buyukozkan Alperen Bal Mehmet Kursat Oksuz Emine Nisa Kapukaya Sule Itir Satoglu
ID: 47	Inventory Control through ABC/XYZ Analysis	Esra Agca Aktunc Meltem Basaran Gozde Ari Mumin Irican Sahna Gungor
ID: 61	Lean Part Flow in Magnet Production Lines	Melek Gizem Akcay Sude Arda Yelda Tekin Seval Ene Tulin Gunduz

14:30 – 16:00	Parallel Session – IX *(In Turkish)*	
Room: Nissa	Chair – Yavuz Selim Ozdemir	
ID: 41	An Optimization Model for Variable Ordering in Qualitative Constraint Propagation	Mehmet Fatih Hocaoglu
ID: 76	The Effect of the Initial Solution Algorithms Used in VNS for Solving Buffer Allocation Problem	Mehmet Ulas Koyuncuoglu Leyla Demir
ID: 89	Quay Crane Scheduling Using Metaheuristics in Container Terminals	Fahrettin Eldemir Mustafa Egemen Taner Mehmet Ulas Koyuncuoglu

16:00 – 16:30	COFFEE BREAK

16:30 – 18:00	Parallel Session - X	
Room: Sobesos	Chair – Duygu Caglar Gencosman	
ID: 87	A Markov Decision Process Approach to Estimate the Risk of Obesity Related Cancers	Emine Yaylali Umut Karamustafa
ID: 98	Evaluation of Scheduling Models for the Performance of a Medical Clinic	Fereydoun Aghazadeh Arunn Pisharody Vijayan Craig Harvey
ID: 103	A Combined Method for Deriving Decision Makers' Weights in Group Decision Making Environment: An Application in Medical Decision Making	Emrah Koksalmıs Gulsah Hancerliogulları Koksalmıs Ozgur Kabak

16:30 – 18:00	Parallel Session – XI *(In Turkish)*	
Room: Nissa	Chair – Mehmet Hocaoglu	
ID: 38	Risk Assessment with Fuzzy FMEA in Design and Production Processes of Power Transformers	Mert Turan Demet Gonen Ocaktan
ID: 44	Analyzing of Pipe Production Fault Rates by Association Rules and Classification According to Working Conditions and Employee Characteristics	Deniz Demircioglu Diren Hussein Al-Sanabani Tugcen Hatipoglu
ID: 46	Root Cause Detection with an Ensemble Machine Learning Approach in Multivariate Manufacturing Process	Deniz Demircioglu Diren Semra Boran Ihsan Hakan Selvi Tugcen Hatipoglu

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22 June 2018, Friday	

09:00 – 16:00	Registration

09:30 – 10:30	Keynote Session
Room: Sobesos	

MUSTAFA ERGEN, PhD

Professor at Istanbul Technical University
Chief Technology Advisor at Turk Telekom
Electronics and Communication Engineering Department, Istanbul Technical University

Title: "Entrepreneurship and Technology Innovation: Silicon Valley History and Start of Big Data Era"

10:30 – 11:00	COFFEE BREAK

11:00 – 12:30	Parallel Session - XII	
Room: Sobesos	Chair – Gulsah Hancerliogullari Koksalmis	
ID: 1	Mobile Health (mHealth) Applications and Self HealthCare Management: Willingness of Female Patients Living in Rural Areas to Static Mobile Apps	Tahereh Saheb Elham Abooei Mehrizi
ID: 8	Humanitarian Supply Chain Management: Extended Literature Review	Busra Gulnihan Dascioglu Ozalp Vayvay Zeynep Tugce Kalender
ID: 79	Predicting Organ Donation Outcome using Network-Based Machine Learning Algorithms	MD Ehsan Khan Salih Tutun

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11:00 – 12:30	Parallel Session – XIII	
Room: Sinasos	Chair – Basak Cetinguc	
ID: 54	Ergonomic Assessment of Manual Handling Tasks in Textile Industry using Digital Human Modeling	Ayse Bostancı Aysel Karagoz Merve Karatas Burcu Caglar Gencosman Besim Turker Ozalp
ID: 77	The Effects of the Dimensions of Organizational Justice over The Perception of General Justice	Ozgun Albayrak Cahit Ali Bayraktar
ID: 101	Identifying Talent Attributes for Talent Management in Automotive Industry in Turkey	Aylin Ozel Gaye Karacay

12:30 – 14:00	LUNCH BREAK – KAPADOKYA RESTAURANT

14:00 – 15:30	Parallel Session – XIV	
Room: Sobesos	Chair – Ozlen Erkal Sonmez	
ID: 27	Green Hospital Together with a Lean Healthcare System	Hatice Camgoz Akdag Tugce Beldek
ID: 81	The Relationship between Risk Management and Patient Safety Incidents in Acute Hospitals in NHS England	Gulsum Kubra Kaya
ID: 82	The Problem with Traditional Accident Models to Investigate Patient Safety Incidents in Healthcare	Gulsum Kubra Kaya Halime Tuba Canbaz

14:00 – 15:30	Parallel Session - XV	
Room: Sinasos	Chair – Peiman Alipour Sarvari	
ID: 4	An Expert System Methodology for Planning IT Projects with Hesitant Fuzzy Effort: An Application	Ayfer Basar
ID: 68	New Supervised Classification Approach as Networked Pattern Recognition Framework	Salih Tutun Mohammad T Khasawneh
ID: 105	The Importance of Risk Management on IT Investment Projects	Murat Durucu

15:30 – 16:00	COFFEE BREAK

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16:00 – 18:00	Parallel Session - XVI	
Room: Sobesos	Chair – Mohammad T Khasawneh	
ID: 17	Hinterland Container Transportation Using Mathematical Programming Approach	Elifcan Gocmen Rizvan Erol
ID: 25	Artificial Bee Colony Algorithm for Labor In-tensive Project Type Job Shop Scheduling Problem: A Case Study	Aslan Deniz Karaoglan Ezgi Cetin
ID: 99	The Optimization of Aggregate Production Planning under Fuzzy Environment: An Application Form Beverage Industry	Merve Gul Topcuoglu Fatma Betul Yeni Yildiz Kose Emre Cevikcan
ID: 102	A Policy Proposal for Effective Energy Management	Beyzanur Cayir Ervural Ramazan Evren

16:00 – 18:00	Parallel Session - XVII	
Room: Sinasos	Chair – Salih Tutun	
ID: 45	Air Cargo Facility Layout Planning and Meta-Heuristic Solution Approach	Elif Karakaya
ID: 50	The Potential of Data Analytics in Disaster Management	Peiman Alipour Sarvari Mohammad Nozari Djamel Khadraoui
ID: 78	Technological Forecasting in Telecommunication Industry	Gokhan Kalem Ozalp Vayvay Bahar Sennaroglu Hakan Tozan
ID: 104	The Moderating Effect of Indulgence on the Relationships among Global Innovation Index Indicators	Basak Cetinguc Eyup Calik Fethi Calisir

16:00 – 18:00	Parallel Session - XVIII	
Room: Nissa	Chair – Ayfer Basar	
ID: 20	Implementation of Lean Six Sigma for Airline Ground Handling Processes	Ozlem Senvar Dilek Akburak
ID: 22	Quality Function Deployment Implementation on Educational Curriculum of Industrial Engineering in University of Gaziantep	Cihan Cetinkaya Omer Nedim Kenger Zulal Diri Kenger Eren Ozceylan
ID: 43	On Copula Based Serial Dependence in Statistical Process Control	Ozlen Erkal Sonmez Alp Baray
ID: 106	Exploring the Adoption of ERP Systems: An Empirical Investigation on End-Users in an Emerging Country	Gulsah Hancerliogullari Koksalmis Seckin Damar

20:00 – 23:00	GALA DINNER – ROOF RESTAURANT