



International Conference on Data Science, Machine Learning and Statistics - 2019 (DMS-2019)

Conference Venue:

Faculty of Economics and Administrative Sciences,
Van Yüzüncü Yıl University, 65080 Van, Turkey.



Scientific Program

June 26-29, 2019

Wednesday June 26 (09:00 – 18:15)

09:00 – 09:30	Registration
09:30 – 10:30	Opening (Room: Conference Hall)
	Prof. Dr. Murat Kayri – Head of Organizing Committee
	Prof. Dr. Suat Şensoy – Director of Institute of Natural and Applied Sciences
	Assoc. Prof. Dr. Hakan Çağdaş Aladağ – Head of Organizing Committee
	Prof. Dr. Fevzi Erdoğan – Organizing Committee
10:30 – 11:00	State Conservatory of Turkish Music
	Live Music
11:00 – 11:15	Coffee break

Wednesday June 26

11: 15 – 12:15	Keynote Speaker (Room: Conference Hall) Chair: Peter Filzmoser Ashis SenGupta: Statistical Learning for Big Manifold Data
12:15 – 13:15	Lunch
13:15 – 14:15	Keynote Speaker (Room: Conference Hall) Chair: Kasirga Yıldırak Çağdaş Hakan Aladağ: Machine Learning: from the architect of Van Lake to architecture of neural networks
14:15 – 14:30	Coffee break
14:30 – 15:30	Session 1-1-1 (Room: Tushba) Chair: Fevzi Erdoğan <u>Mohammad Alauthman</u> Application-Layer Dos Attack Detection using Machine Learning Gökhan Silahtaroglu, <u>Zehra Nur Canbolat</u> and Nevin Yılmaztürk A Machine Learning Sepsis Diagnosis Model for Intensive Care Units <u>Fatih Uludag</u> , Fırat Kapar and H. Eray Çelik Generative Adversarial Networks Based Data Augmentation For Phishing Detection <u>Aykut Çayır</u> , Uğur Ünal, Işıl Yenidoğan and Hasan Dağ Use Case Study: Data Science Application for Microsoft Malware Prediction Competition on Kaggle
	Session 1-1-2 (Room: Hoşap Castle) Chair: Çetin Güler Metin Bilgin and İzzet Fatih Şentürk A Research on Delay Time of The Message in Mobile Crowd Sensing <u>Gülin Zeynep Öztas</u> and Sabri Erdem Optimization by repulsive forces based on charged particles <u>Recep Özdağ</u> and Halim Yanıkömeroğlu A New Meta-heuristic Approach for 3D Placement of Multiple Unmanned Aerial Vehicle Base Stations In Wireless Networks Emrah Şimşek, Baris Ozyer and Gulsah Tumuklu Ozyer Deep Learning Based Human Detection in Camera-trap Images
	Session 1-1-3 (Room: Akdamar Island) Chair: Sinan Saraçlı Murat Eray Korkmaz, Umut Yildirim and Ercan Kose Predicting of Ship Berthing Motion By Using Artificial Neural Networks on Container Vessels <u>Mustafa Asim Ozalp</u> , Kasirga Yildirak, Hakan Cagdas Aladag, Ibrahim Zor and Necmettin Unal Prognostic Performance of Artificial Neural Networks by Using Mimic-III Clinical Database <u>Berkalp Tunca</u> , Sinan Saraçlı, Çağdaş Hakan Aladağ and İbrahim Kılıç An Application on Comparison of Classical and Artificial Neural Network Approaches on Type II Regression Analysis Kasirga Yildirak, Sevtap Kestel and İsmail Gur Risk Classification with Artificial Neural Networks Models in Motor Third Party Liability
	Session 1-1-4 (Room: Lake Van) Chair: Gratiela Boca Rahim Alhamzawi A new Bayesian group lasso probit regression Yasemin Gençtürk, <u>Hande Konşuk Ünlü</u> and Ayten Yiğiter Comparison of the Spliced Regression Models <u>Fatma Zehra Doğru</u> , Keming Yu and Olcay Arslan Heteroscedastic and Heavy-tailed Regression with Mixtures of Skew Laplace Normal Distributions <u>Kerem Yamaç</u> and Fevzi Erdoğan Uniformly convergence of singularly perturbed reaction-diffusion problems on shishkin mesh
	Session 1-1-5 Chair: (Room: Urartu) Kasirga Yıldırak <u>İlgım Yaman</u> and Türkan Erbay Dalkılıç Sector-wise Analysis of Cardinality Constraint Portfolio Optimization Problem: Selecting ISE-All Shares Based on Coefficient of Variation and Nonlinear Neural Network Ali Tunç Real Time Application of Self Organizing Maps (SOM) and Neural Network (ANN) Algorithms for Credit Score Card Production Burcu Hasançebi, Yüksel Terzi and Zafer Küçük Distractor Analysis for Statistical Literacy Test Ş. Işıl Akgül and Gözde Bozkurt Determining Herd Psychology with Binary Qualitative Preference Models: Twitter Case
	Session 1-1-6 (Room: Van Castle) Chair: Şükrü Acıtaş <u>Fatma Gül Akgül</u> , Keming Yu and Birdal Şenoğlu Inference in step-stress partially accelerated life testing for Inverse Weibull distribution under Type-I censoring Talha Arslan, Sukru Acitas and Birdal Senoglu Statistical inference for the Moyal distribution under Type-II censoring <u>Hayriye Esra Akyüz</u> A Robust Confidence Interval and Ratios of Coverage to Width for the Population Coefficient of Variation: A Comparative Monte Carlo Study <u>Asuman Yılmaz</u> and Ayşe Kübra Demirel Comparisons of Methods of Estimation Generalized Exponential Distribution
15:30 – 15:45	Coffee break

15:45 – 16:45	Keynote Speaker (Room: Conference Hall) Chair: Carlos A. Coelho
	Peter Filzmoser: Robust and Sparse Methods for Regression and Classification in High Dimensions
16:45 – 17:00	Coffee break
17:00 – 18:15	Session 1-2-1 (Room: Tushba) Chair: Yener Altun
	Murat Cancan and Süleyman Ediz
	A statistical comparison of Zagreb and Angular Geometric Zagreb Indices
	Süleyman Ediz, Mehmet Şerif Aldemir and Murat Cancan
	A statistical comparison of Randić and Angular Geometric Randić Indices
	<u>Yener Altun</u>
	On the asymptotic stability of Riemann–Liouville fractional neutral type neural networks with time-varying delays
	A. Shamilov, F. Erdogan and <u>Sevda Özdemir</u>
	Fitting Irregular Migration Data in Turkey to It Stochastic Differential Equation
	W. Goa, G. Yel, <u>H.M. Baskonus</u> . And C. Cattani
	Complex Solitons in the Conformable (2+1)-dimensional Ablowitz-Kaup-Newell-Segur Equation
	Session 1-2-2 (Room: Hosap Castle) Chair: Charkaz Aghayeva
	Renas Rajab Asaad, Amar Yahya Hussien and Rogash Younis Masiha
	Güler and Linaro et al Model in an Investigation of the Neuronal Dynamics using noise Comparative Study
	<u>Boufera Fatma</u>
	Fuzzy system optimization by simulated annealing method for mobile robot navigation
	<u>Husham Salah Aldeen Omar</u> and Ahmet Babalik
	Detection of Pneumonia from X-Ray Images using Convolutional Neural Network
	Karthikeyan S, Hari Seetha, Tathagat Banerjee, Rohit Bhargav Peesa and Ashita Satpathy
	Single Node Hadoop Cluster Embedded with Multi-Level Neural Network Support in Small Scale Industrial Automation
	<u>Charkaz Aghayeva</u>
	Maximum Priciple for Stochastic Switching Systems Involving Impulse Controls
	Session 1-2-3 (Room: Akdamar Island) Chair: Mustafa Seviüktekin
	<u>Münevver Günay Van</u> , Sanem Şehribanoğlu and Muhammed Hanifi Van
	Analysis Of The Factors Affecting The Financial Failure And Bankruptcy By The Generalized Ordered Logit Model
	<u>Ayşe Cengiz</u> and Derya Avcı
	Analysis of Earthquake Data in Eastern Anatolia Region Using Data Mining Techniques
	Yıldıray Yiğit, Engin Avcı and Murat Karabatak
	Analysis and Price Forecasting the Used Cars Property with Multiple Linear Regression in Turkey
	M. Akif Arvas and <u>Kerem Özen</u>
	The Effects of Macroeconomic Variables on Housing Price Index: A Panel Data Approach
	<u>Selim Dönmez</u> and Özer Özaydın
	Panel Data Analysis: An Application To Dow-Jones Stock Market
	Session 1-2-4 (Room: Lake Van) Chair: Nasip Demirkuş
	<u>Alper Hamzadayı</u> and Tolga Bektaş
	Delayed constraint generation for the type-II assembly line balancing problem
	<u>Serpil Sevimli Deniz</u>
	Analysis of the Results of Artificial Intelligence Perception Research via Tableau Data Visualization Tool
	<u>Mehmet Ulaş Kovuncuoğlu</u> and Leyla Demir
	A combat genetic algorithm for optimal buffer allocation in unreliable production lines
	<u>Mesut Pek</u>
	Sentiment Analysis of Tweets Using Machine Learning
	Veysel İnal and <u>Mustafa Torosdağ</u>
	Empric findings for the relationship between information communication technologies and economic growth
	Session 1-2-5 (Room: Urartu) Chair: Hayati Çavuş
	<u>İhsan Berk</u> , Sinan Saracli, Gratiela Boca and Berkalp Tunca
	Examining Effective Factors on Emotional and Cognitive Demands by Copenhagen Psychosocial Questionnaire (COPSOQ) via Statistical Modeling
	Ozge Doguc and <u>Zehra Nur Canbolat</u>
	Using Dimensionality Reduction Techniques To Determine Student Success Factors
	Ahmet Karadoğan and Ali Karcı
	Modeling Dynamically Behavior of Users in Social Networks using Petri Nets
	Nuray Tokgoz and Dilek Erdoğan
	The Impact of IT Capabilities on Organizational Agility and Firm Performance: An Emprical Examination by Using PLS-SEM
	Alime Yaman and Çetin Güler
	Attitudes of students towards learning supported with educational computer games: A case study for Van Province
	Session 1-2-6 (Room: Van Castle) Chair: Güçkan Yapar
	<u>Tugce Ekiz Yilmaz</u> and Guckan Yapar
	Results from ATA method on M3 and M4 competition data sets
	Murat Canayaz and Sanem Şehribanoğlu
	Comparative Analysis of LSTM and Kalman filter in Time Series Estimation
	<u>Qais Mustafa Abdulqader</u> and Jafar Muhammad Teli
	Time series analysis of the monthly forecast of crude oil exports in Iraq
	Işıl Akgül and Selin Özdemir
	Hybrid Neural Networks Based Approach for Forecasting Nonlinear Seasonal Time Series
	Baki Ünal, Çağdaş Hakan Aladağ and Birdal Şenoğlu
	Robust Portfolio Optimization in Stock Exchange Market

Thursday June 27 (09:30 – 18:00)

09:30 – 10:30	Keynote Speaker (Room: Conference Hall) Chair: Ashis SenGupta Carlos A. Coelho: Testing the “complete symmetrical equivalence” of two sets of variables
10:30 – 10:45	Coffee break
10:45 – 12:00	Session 2-1-1 (Room: Tushba) Chair: Fatma Gül Akgül Miray Arslan and Nilay Tarhan An Analytic Hierarchy Process Example in Pharmacy Management Yagmur Kılıcdagi and Gülbin Özçelikay Opinions Of Community Pharmacies about Probiotic Use Metin Kartal and Gulbin Ozelikay Community Pharmacists’ Views and Attitudes Towards Surplus Bülent Kıran and Nazlı Sencan A General Evaluation on Drug Distribution and Automation Systems in Pharmacy Murat Sentürk Software used for drug design and development
	Session 2-1-2 (Room: Hoşap Castle) Chair: Güçkan Yapar Telli Abdelmoutia and Ababsa Tarek Lightweight Ontology for Modelling Smart Water Zareen Alamgir and Hassan Jamil Distributed Recommender Systems on Apache Spark Framework Ali Rostami, Samye Matloub and Mild Rastkar Design and Optimization of Graphene Quantum Dot-based Luminescent Solar Concentrator Using Monte-Carlo Simulation Nagaraju Devarakonda Enhanced brainstorm optimization algorithm with adaptive dynamic population for optimization problems Mohammad Mahdi Mozaffari and Seyed Habib A. Rahmati Managing Maintenance Cost of a Production System under Vagueness and Uncertainty
	Session 2-1-3 (Room: Akdamar Island) Chair: Ahmet Öztürk Ahmet Cürebal, Tamer Eren and Evrencan Özcan Solutions Of Technology Manager Selection Problem With ANP AND Promethee Methods Rabia Yumuşak, Evrencan Özcan and Gaye Baysal Temporary Storage Location Selection for Wastes Under the Zero Waste Project with AHP and TOPSIS Integration Ahmet Aktas, Mehmet Akif Yerlikaya, Mehmet Kabak and Billur Ecer AHP – TOPSIS Hybrid Approach for Research Assistant Selection Rabia Yumuşak, Evrencan Özcan and Tamer Eren Maintenance Strategy Optimization with Analytical Hierarchy Process and Integer Programming Combination Yaseminhan Arpacı and Hüseyin Canbolat Environmental Sound Recognition with Various Feature Extraction and Classification Techniques
	Session 2-1-4 (Room: Lake Van) Chair: Ali Mamizadeh Cengiz Kina and İbrahim Berkan Aydılek Analyzing use of the Metaheuristic Algorithms in Course Scheduling Problem Ahmet Cürebal, Tamer Eren and Hacı Mehmet Alakaş Goal Programming Method for Shift Scheduling: Application for A Private Hospital Staff Nurse Serkan Kaya, Ayşe Çelik, İzzettin Hakan Karaçizmeli, İbrahim Berkan Aydılek, Abdulkadir Gümüşçü and Mehmet Emin Tenekeci Mathematical Model of Flow Shop Scheduling Problems and Solution with Metaheuristic Methods Ayşe Çelik, Hande Nur Alp, Serkan Kaya and İzzettin Hakan Karaçizmeli Solution of Exam Supervisor Assignment Problem to Final Exams by Goal Programming Buket İpek and Tolga Berber Forecasting The Industrial 4.0 Data Via Anfis Approach
	Session 2-1-5 (Room: Urartu) Chair: Necmi Gürsakal Mustafa Yusuf Demirci, Nurettin Beşli and Abdülkadir Gümüşçü Defective PV Cell Detection Using Deep Transfer Learning and EL Imaging Saleem Sadeq and Gölge Yetkîn Semi-Supervised Sparse Data Clustering Performance Investigation Nebahat Bozkus and Stuart Barber Detection of clusters in hierarchically built trees by lifting Cumali Kaynar and Mustafa Mikail Özçiloğlu A Machine Learning Approach for Predicting the Acceptance of a Candidate Student to the University
	Session 2-1-6 (Room: Van Castle) Chair: Leyla Demir Renas Rajab Asaad, Amar Yahya Hussien and Saman M. Almufti A Review: Big Data Technologies with Hadoop Distributed Filesystem Mahdi Nasrollahi Identification and modeling big data enablers for Operations Management Mahdi Nasrollahi and Mahmoud Sadraei Modeling Evaluation Criteria for Resilient IT Project Contractor Selection Mahdi Hoshmandi and Seyed Habib A. Rahmati Novel pattern in software architecture based on stored procedure Esra Şentürk and Metin Yıldız Statistical Analysis Used in Scientific Studies in Nursing
12:00 – 13:00	Lunch

Thursday June 27

13:00 – 14:00	Keynote Speaker (Room: Conference Hall) Chair: Çağdaş Hakan Aladağ Candan Gökçeoğlu: Quality Analysis Of Big Geodata Via Machine Learning
14:00 – 14:15	Coffee break
14:15 – 15:15	Session 2-2-1 (Room: Tushba) Chair: Fatma Zehra Doğru Selen Yeğenoğlu Qualitative Data: Advantages, How to Collect and Present Based on Three Examples on Health Issues Elif Ulutaş Deniz, Miray Arslan, Nilay Tarhan, Bilge Sözen Şahne, Selen Yeğenoğlu and Sevgi Şar Pharmacy Students' Intention towards Using Cloud Information Technologies in Knowledge Management Buket Aksu, Gizem Yeğen and Burcu Mesut Benefits of computer-based systems in Quality Design Nazlı Şencan Research Methods In Social Pharmacy Studies
	Session 2-2-2 (Room: Hoşap Castle) Chair: Selin Özdemir Sumeyra Bedir On Deep Learning Based Error Correction with Algebraic Codes Yasemin Gültepe and Ayşe Mine Duru Using Convolutional Neural Networks for Handwritten Digit Recognition Sıdıka Elbi Mutloğlu, Osman Tahir Ekşi and Tamer Ölmez Comparison of Conventional and Deep Learning Methods on Lane Detection Yasemin Gültepe and Timur Kartbaev A Study of Data Mining Methods for Breast Cancer Prediction
	Session 2-2-3 (Room: Akdamar Island) Chair: Murat Canayaz Rabia Yumuşak, Evrencan Özcan, Tuğba Danişan and Tamer Eren Generation Estimation with Artificial Neural Network in the Natural Gas Combined Cycle Power Plants Betül Demirelli, Nermin Avşar Özcan, Evrencan Özcan and Tamer Eren Combined Multi Criteria Decision Making Model for Localization Problem of the Main Systems in the Hydroelectric Power Plants Rabia Yumuşak, Evrencan Özcan, Tuğba Danişan and Tamer Eren Electricity Consumption Forecast by Artificial Neural Networks- The Case of Turkey Şeyma Emeç, Özlem Çomaklı Özlem, Gökay Akkaya and Mustafa Yılmaz Investigation of the Efficiency of Coal Power Plants Used in Electricity Production
	Session 2-2-4 (Room: Lake Van) Chair: Işıl Akgül Yasin Altun and Ahmet Deniz Yücekaya A Probabilistic Model to Maximize Cross-Selling Revenues of Financial Products Abdülkerim Karaaslan and Mesliha Gezen Energy Demand Forecast and Planning Of The Use Of Energy Resources: Policy Recommendations Ramazan Yanık, Asfia Binte Osman and Ozcan Ozturk Impact of Manufacturing PMI on Stock Market Index: A Study on Turkey Gizem Halil and Aysun Kapucuğil İkiz Combining Forecasts for Stock Keeping Units with Intermittent Demand Pattern: An Application on Spare Parts
	Session 2-2-5 (Room: Urartu) Chair: İlhan Usta Gizem Meral and Sinan Saraçlı Support Vector Machines and an Application on Natural Gas Consumptions of Power Plants in Turkey Faruk Serin, Süleyman Mete, Muhammet Gul and Erkan Celik Support Vector Machine Algorithm for Predicting the Bus Arrival Time in Public Transportation Pelin Akın and Yüksel Terzi A Comparison Of Svm Kernel Functions For Unbalanced Data Seyyide Doğan, Deniz Ertürk and Murat Atan Support Vector Machines and Logistic Regression Analysis on Predicting Financial Distress Model
	Session 2-2-6 (Room: Van Castle) Chair: Süleyman Ediz Eren Soygüder and Abdullah Oğuz Kızılcay A Practical Approach to Calculation of Shielding Effectiveness of Frequency Selective Surfaces Deniz Eraslan, Oktay Yıldırım, Dilek Orbatu, Doruk Sobay, Ali Rıza Şişman, Adem Aydın and Süleyman Sevinç Experimenting with Some Data Mining Techniques to Establish Pediatric Reference Intervals for Clinical Laboratory Tests Erhan Akagündüz and İbrahim Berkan Aydılek Examination of the Important Parameters Used in Artificial Intelligence Optimization Techniques Sibel Kuzgun Akın Using production time data for estimating the setup time of the CNC machines and forecasting
15:15 – 15:30	Coffee break

Thursday June 27

15:30 – 16:30	Keynote Speaker (Room: Conference Hall) Chair: Ashis SenGupta
	Keming Yu: An Extreme-Value Distribution based Regression for Big Data
16:30 – 16:45	Coffee break
16:45 – 18:00	Session 2-3-1 (Room: Tushba) Chair: Ali Mamizadeh
	Serbest Zıyanak, H. Eray Çelik, Murat Kayri and Hayati Çavuş
	Network Log Analysis For Network Security By Using Big Data Technologies
	Serpil Sevimli Deniz
	Investigation of Metrics Used to Measure the Distance Between Clusters in Hierarchical Clustering via WEKA
	Ebubekir Seyyarer, Faruk Ayata, Taner Uçkan, Cengiz Hark and Ali Karci
	Comparison Of Optimization Algorithms Used In Deep Learning By Using Caltech 101 Data Set
	Suleyman Mete, Zeynel Abidin Cil, Faruk Serin, Muhammet Gül and Erkan Çelik
	Effects of Uncertainty in Unified Design of Assembly and Disassembly Lines: A chance-constrained, Piecewise-linear Program
	Serbest Zıyanak and H. Eray Çelik
	The Analysis Of Web Server Logs With Web Mining Methods
	Session 2-3-2 (Room: Hoşap Island) Chair: Şakir İşleyen
	Canan Demir, Ali Rıza Kul, Yıldırım Demir, Halime Yıldız and Sıddık Keskin
	Statistical Modeling of Lead (Pb) Adsorption on Clay Minerals of Çelebibağ
	İzzettin Hakan Karaçizmeli, İbrahim Berkan Aydılek, Abdülkadir Gümüşçü, Mehmet Emin Tenekeci and Serkan Kaya
	Evaluating Solution Performance of Hybrid Firefly and Particle Swarm Optimization Algorithm in Flow Shop Scheduling Problems
	Güzide Miray Perihanoğlu and Himmet Karaman
	Drought Characterization Of Van Lake Basin Using Standardized Precipitation Index (Spi)
	Murat Şentürk, Esra Şentürk and Hilal Üstindağ
	In Vitro and In Silico Calculation of Melatonin and Dopamine on Acetylcholinesterase and Butyrylcholinesterase
	Session 2-3-3 (Room: Akdamar Island) Chair: Naci Genç
	Fatih Uludağ, Sebahattin Çelik, Ayesha Sohail and U. Haluk İliklerden
	Prediction of Gastric Cancer Stages with Convolutional Neural Networks
	Fikriye Ataman, H. Eray Çelik, Fatih Uludağ and Murat Kayri
	Using LSTM for Sentiment Analysis with Deeplearning4J Library
	Burak Görentaş and Sinan Saraçlı
	The Evaluation Of The Effect Of The Earthquake On Socio-Economic Development Level With The Cluster Analysis
	Faruk Ayata, Mevlüt İnan, Ebubekir Seyyarer and Hayati Çavuş
	Face Recognition Based System Input Control Application
	Emrah Şimşek, Baris Ozyer and Gulsah Tumuklu Ozyer
	Improvement of Moving Object Detection by Pattern Recognition Methods
	Session 2-3-4 (Room: Lake Van) Chair: Talha Arslan
	Ece Özgören, Sinan Saraçlı and Berkalp Tunca
	Performance of Type II Regression in Time Series Analysis
	Necati Erdogan, Kübra Bağci, Talha Arslan
	An Extension of the Maxwell Distribution: Properties and Application
	Asuman Yılmaz and Ayşe Kübra Demirel
	Comparison Of Goodness Of Fit Tests For Inverse Weibull Distribution
	W. Gao, H.M. Baskonus and J.L.G. Guirao
	New complex hyperbolic mixed dark soliton solutions for some nonlinear partial differential equations
	Mustafa Sevüktekin and Beyda Demirci
	Determinants of Export to Turkey's Black Sea Economic Cooperation Member Countries: Panel Gravity Model Approach
	Session 2-3-5 (Room: Urartu) Chair: Sinan Çalık
	Aslıhan Demir, Ayşe Metin Karakaş and Sinan Çalık
	Factorial Moment Generating Function Of Sample Minimum Of Order Statistics From Geometric Distribution
	Ayşe Metin Karakaş, Aslıhan Demir and Sinan Çalık
	Interdependence Of Bitcoin and Other Crypto Money Indicators: Cd Vine Copula Approach
	Berivan Çakmak and Fatma Zehra Doğru
	Robust Estimators for the Parameters of the Power Lindley Distribution
	Baki Ünal and Çağdaş Hakan Aladağ
	Stock Exchange Prediction via Long Short-Term Memory Networks
	Selçuk Karaman, Mesliha Gezen and Emrah Şimşek
	Development Of Digitalization Index In Higher Education
	Session 2-3-6 (Room: Van Castle) Chair: Yıldırım Demir
	Fatma Tuncer, Esra Akdeniz and Ayse Dogu
	The Feasibility of Near Infrared Spectroscopy for Classification of Pine Species
	Muhammet Gul, Faruk Serin, Suleyman Mete and Erkan Celik
	A novel occupational risk assessment approach based on fuzzy VIKOR and k-means clustering algorithm
	Nadire Üçler
	Modeling of The Pan Evaporation Data Using Fuzzy Logic Method
	Hilal Guney
	An Application of Type 2 Fuzzy Time Series Model
	Tayfun Abut and Servet Soyguder
	Control of Human-Robot Interactive Haptic-Teleoperation System by Fuzzy Logic and PID Control Methods

Friday June 28 (09:30 – 18:45)

09:30 – 10:30	Keynote Speaker (Room: Conference Hall) Chair: Sinan Saraçlı
	Adil Baykasoğlu: Data-Driven Multi-Criteria Decision Making in Decision Engineering
10:30 – 10:45	Coffee break
10:45 – 11:45	Session 3-1-1 (Room: Tushba) Chair: Şükrü Acıtaş
	İlhan Usta and Merve Akdede
	Bayesian Estimation of the Reduced Kies Distribution Parameters
	İlhan Usta and Volkan Yeşildere
	Maximum Likelihood Estimation of the Parameters of the Exponentiated Reduced Kies Distribution via Artificial Bee Colony Algorithm
	Fatma Gül Akgül and Birdal Şenoğlu
	Estimation Methods for Three-Parameter Burr Type XII Distribution: Hydrological Application
	Kübra Bağcı, Talha Arslan
	A Comparison of Estimation Methods for The Inverted Kumaraswamy Distribution
	Session 3-1-2 (Room: Hoşap Castle) Chair: Sanem Şehribanoğlu
	Mohamad Nour Qamari, Abdullah Oğuz Kızılçay and Rıdvan Saraçoğlu
	The Effect of Population Size on the Success of Genetic Algorithm in Optimizing the Ackley Function
	İnanç Kabasakal
	Associative Classification For Failure Prediction in Aluminium Wheel Molding: A Case Study
	Serhat Ömer Rençber
	Analysis of Terrorist Attacks in the World
	Vedat Tümen and Burhan Ergen
	Pedestrian Crossing Detection and Recognition Using CNN Based Approach for Intelligent Transportation
	Session 3-1-3 (Room: Akdamar Island) Chair: Ahmet Öztürk
	Anupama Namburu and Mustafa Qays Hatem
	A Novel Initial Centroid Selection Algorithm for Clustering
	Ömer Arslan, Mehmet Yıldırım and Sait Ali Uymaz
	Mobile Application Price Estimation By Using Artificial Neural Network and Bayesian Classifier
	Anupama Namburu
	Single valued triangular neutrosophic fuzzy c-means for MR brain image segmentation
	Vijaya J, Srimathi S and Ajith Jubilson E
	An improved telecommunication churn prediction system by enhanced fuzzy clustering with Ada boosting hybrid model
	Session 3-1-4 (Room: Lake Van) Chair: Muzaffer Ateş
	Erkan Yıldız and Zeydin Pala
	Time Series Analysis of Radiological Data of Outpatients and Inpatients in Emergency Department of Mus State Hospital
	Zeydin Pala
	Using Decomposition-based Approaches to Time Series Forecasting in R Environment
	Zeydin Pala
	Using forecastHybrid Package to Ensemble Forecast Functions in the R
	İbrahim Halil Ünlük and Zeydin Pala
	Prediction of monthly electricity consumption used in Muş Alparslan University Complex by means of Classical and Deep Learning methods
	Session 3-1-5 (Room: Urartu) Chair: Şakir İşleyen
	Ozcan Ozturk and Elif Golveren
	Oil Prices and Exchange Rates Dynamics in Turkey
	Emrah Bilgiç and M. Fevzi Esen
	Classification with Decision Trees, Naive Bayes and Logistic Regression: An Application in R
	Ayşe Genç
	Modeling of Exchange Rate Volatility in Turkey: An Application with Asymmetric GARCH Models
	Emre Doruk and Tuğrul Taşci
	Households Electricity Consumption Estimation: A Dynamic Linear Model Application
	Session 3-1-6 (Room: Van Castle) Chair: Hamit Mirtaioğlu
	Serhat Ömer Rençber Emre Biçek and Erol Kına
	Analyzing the effect of various factors on having heart disease
	Mehmet Mendes and Hamit Mirtaioğlu
	On Reporting Statistical Analysis Results
	Hacı Mevlüt Karataş and Berat Harman
	The Effect Of Maternal Education On The Probability Of Pregnancy Termination
	Mehmet Mendes and Hamit Mirtaioğlu
	Effect of Type III Error on Decision Making Process
11:45 – 13:15	Lunch

Friday June 28

13:15 – 14:15	Keynote Speaker (Room: Conference Hall) Chair: Ahmet Öztürk
	İbrahim Türkoğlu: Using Deep Learning Models in Problem Solving
14:15 – 14:30	Coffee break
14:30 – 15:30	Session 3-2-1 (Room: Tushba) Chair: Leyla Demir
	Fatih Okumuş and Adnan Fatih Kocamaz
	Multi-robot Path Planning Using Fractional Order Darwinian Particle Swarm Optimization Algorithm
	<u>Alper Hamzadayı</u> , Adil Baykasoğlu and Şener Akpınar
	A hybrid metaheuristic approach for solving vehicle routing problem with mixed pickup and delivery
	Serkan Mutlu and Bilge Bilgen
	Comparison of Particle Swarm Optimization and Teaching-Learning Based Optimization Algorithms from Swarm Based Metaheuristics for Dynamic Berth Allocation Problem with Port Structure Constraints
	<u>Enver Engür</u> and Banu Soylu
	A special case of the p-hub center network problem
	Session 3-2-2 (Room: Hoşap Castle) Chair: Selin Özdemir
	İbrahim Budak, Günay Kiliç and Bedia Sündüz Kiliç
	Evaluation of Black Friday Hashtags in Turkey with Sentiment Analysis
	Anıl Altınata and Aysun Kapucugil İkiz
	Forecasting The Future Needs Of Customers For New Products
	Ayşe Saliha Sunar, Rabeeh Ayaz Abbasi, Hugh C Davis and Su White
	Prediction of Course Completion based on Social Engagements in a MOOC
	Kıvanç Bayraktar
	LDA-Based Aspect Extraction from Turkish Hotel Review Data
	Session 3-2-3 (Room: Akdamar Island) Chair: Sanem Şehribanoğlu
	Ecrin Nüda Bak, Sanem Şehribanoğlu and Rıdvan Saraçoğlu
	Optimization of the Holder Table Test Function Using Dynamic Mutated Genetic Algorithm
	Eren Soygüder, Abdullah Oğuz Kızılçay and Rıdvan Saraçoğlu
	An application of Genetic Algorithm with Changeable Population Size for Optimization of The Schwefel Function
	Emine Doğanç and Rıdvan Saraçoğlu
	Service Development with Service Oriented Architecture
	Cansu Akyürek Anacur and Rıdvan Saraçoğlu
	Comparison of Feature Selection Methods for Detection of Alert Sounds in Traffic
	Session 3-2-4 (Room: Lake Van) Chair: Recep Özdağ
	Şafak Kızıldaş, Hacı Mehmet Alağaç and Tamer Eren
	Collection of Wastes within the Scope of Zero Waste Project: A Vehicle Routing Practice with Heterogeneous Multi-Vehicle in Kırıkkale
	Özlem Çomaklı Sökmen, Şeyma Emeç, Mustafa Yılmaz and Gökay Akkaya
	An Overview of Chinese Postman Problem
	Emrah Şimşek, Emre Çintaş, Baris Ozyer and Gulsah Tumuklu Ozyer
	Local Feature and Kalman Filter Based Object Tracking in Dynamic Camera Images
	Taner Uçkan, Cengiz Hark, Ebubekir Seyyarer, Faruk Ayata, Mevlüt İnan and Ali Karci
	Extractive Text Summarization Via Graph Partitioning
	Session 3-2-5 (Room: Urartu) Chair: Veysel Yılmaz
	Veysel Yılmaz and <u>Bülent Batmaz</u>
	Elective Course Recommendation System in Higher Education
	Veysel Türk and İbrahim Berkan Aydılek
	Examination of Recommendation Systems and Usage Areas
	Necmi Gürsakal and Fırat Melih Yılmaz
	Visualizing High-Dimensional Word Embeddings Using t-SNE
	Ahmet Karabaş and Banu Diri
	Irony Detection in Turkish Tweets
15:30 – 15:45	Coffee break

Friday June 28

15:45 – 16:45	Keynote Speaker (Room: Conference Hall) Chair: Ahmet Öztürk
	Necmi Gürsakar: Where Are We in Data Science and Where Should We Go?
16:45 – 17:00	Coffee break
17:00 – 18:15	Session 3-3-1 (Room: Tushba) Chair: Yener Altun
	Sadi Elasan and Sıddık Keskin
	Deep Neural Network and Its an Application
	Senem Koç and Leman Tomak
	Application of the Weighted K Nearest Neighbor Algorithm for Diabetes
	Bülent Batmaz
	Estimation Of Student Exam Marks With Matrix Complementation Technique
	Malek Harbawi and Asaf Varol
	Open Source E-mail Forensic Tools: An Inside View
	Session 3-3-2 (Room: Hoşap Castle) Chair: Şakir İşleyen
	Şakir İşleyen, Amar Yahya Zebari and Serdar İnan
	Using Regression Analysis Methods in Biostatistics An Applied study on a sample of diabetic patients
	Şakir İşleyen, Rogash Younis Masiha and Serdar İnan
	Estimating the Parameters of the Bivariate Mixed Model Using Robust Method with Ordinary Method
	Adem Şehitoğlu and Şakir İşleyen
	Stochastic programming: Theory, Techniques, Application
	Şakir İşleyen and Serdar İnan
	Comparison of Hot Deck and Regression Imputation in Multiple Imputation Methods for Missing Data Structures
	Session 3-3-3 (Room: Akdamar Island) Chair: Alper Hamzadayı
	Serhat Ömer Rençber and Abdulkadir Özdemir
	Investigation of Skills and Trainings of Big Data Specialists in Turkey: Linked-In Data Mining Application
	Mengu Nazli, Onur Cankur and Adnan Ozsoy
	A Parallel Comparison of Several String Matching Algorithms Employing Different Strategies
	Ali Mahir Gündüz
	Number and Diversity of Requested Computerized Tomography from Emergency Service
	Şeyda Gür and Tamer Eren
	Evaluation of Factors Effective On the Performance of Surgical Teams in Operating Rooms
	Tayfun Abut and Servet Soyguder
	Self-Tuning PID type Fuzzy Impedance Control and Performance Evaluation of a Teleoperation System
	Session 3-3-4 (Room: Lake Van) Chair: Halit Demir
	Tuğba Gür, Halit Demir and Canan Demir
	Comparison of catalase and superoxide dismutase enzyme activities in strawberry fruit
	Özge Özgüner and Çetin Güler
	Technology Integration Process of a Math Teacher
	Ezgi Pekel and Çetin Güler
	Computer Based Thinking Skills in Preschool
	Tuğba Gür, Fatih Karahan, Halit Demir and Canan Demir
	Investigation of some antioxidant enzyme activities in cherry fruit obtained from various regions
	Özge Özgüner, Çetin Güler and Hayati Çavuş
	Opinions of Prospective teachers of Computer and Instructional Technologies for STEM Education
18:15 – 18:45	Closing

WORKSHOPS**26 June Wednesday**

13:00 – 17:00	Data Science and Advanced Data Analytics Applications K. Doruk Oğuz (Professional Services Director)
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29 June Saturday

09:30 – 12:30	EndNote X9. Research Smarter: Smarter teamwork, smarter workflow & smarter insights, powered by Web of Science Hakan Uyar (Senior Account Manager)
13:30 – 14:30	Obje Storage and Isilon at Dell Technologies Ferhat Sırka (Senior System Engineer at Dell Technologies)