



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

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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

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: Tuşba) 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 W. Goa, G. Yel, H.M. Baskonus and C. Cattani Complex Solitons in the Conformable (2+1)-dimensional Ablowitz-Kaup-Newell-Segur Equation <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 Öztaş</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 Yıldırak, 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 Yıldırak, 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 <u>Burcu Hasağçebi</u> , Yüksel Terzi and Zafer Küçük Distractor Analysis for Statistical Literacy Test Ş. Işıl Akgül and <u>Gözde Bozkurt</u> 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 <u>Alper Hamzadayı</u> , Adil Baykasoğlu and Şener Akpınar A hybrid metaheuristic approach for solving vehicle routing problem with mixed pickup and delivery <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: Tuşba) 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 delay A. Shamilov, F. Erdogan and <u>Sevda Özdemir</u> Fitting Irregular Migration Data in Turkey to Ito Stochastic Differential 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 <u>Charkaz Aghayeva</u> Maximum Principle 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> and Naci Genç Analysis of the Results of Artificial Intelligence Perception Research via Tableau Data Visualization Tool <u>Mehmet Ulas 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 Torusdağ</u> Empiric 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 <u>Ozge Doguc</u> and <u>Zehra Nur Canbolat</u> Using Dimensionality Reduction Techniques To Determine Student Success Factors Serhat Ömer Rençber and Abdulkadir Özdemir Investigation of Skills and Trainings of Big Data Specialists in Turkey: Linked-In Data Mining Application 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 combination of ATA method and ARIMA on M4 competition data sets Murat Canayaz and Sanem Şehribanoğlu Comparative Analysis of LSTM and Kalman filter in Time Series Estimation 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: Tuşba) 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 Ozcelikay 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: Alper Hamzadayı 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 Veysel Yılmaz and Bülent Batmaz Elective Course Recommendation System in Higher Education 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: Murat Canayaz Mustafa Yusuf Demirci, Nurettin Beşli and Abdulkadir Gümüşçü Defective PV Cell Detection Using Deep Transfer Learning and EL Imaging Saleem Sadeq and Gölge YetkIn Semi-Supervised Sparse Data Clustering Performance Investigation Nebahat Bozkus and Stuart Barber Detection of clusters in hierarchically built trees by lifting Esra Şentürk and Metin Yıldız Statistical Analysis Used in Scientific Studies in Nursing
	Session 2-1-6 (Room: Van Castle) Chair: Leyla Demir 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 Qais Mustafa Abdulqader and Jafar Muhammad Teli Time series analysis of the monthly forecast of crude oil exports in Iraq
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: Tuşba) Chair: Fatma Zehra Doğru Selen Yeğenoğlu Qualitative Data: Advantages, How to Collect and Present Based on Three Examples on Health Issues Elif Ulutaş Deniz, <u>Miray Arslan</u> , Nilay Tarhan, Bilge Sözen Şahne, Selen Yeğenoğlu and Sevgi Şar Pharmacy Students' Intention towards Using Cloud Information Technologies in Knowledge Management <u>Buket Aksu</u> , 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: Fatma Gül Akgül 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 Mutlooğlu, 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 <u>Betül Demirelli</u> , 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: Şükrü Acıtaş 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 <u>Gizem Meral</u> and Sinan Saraçlı Support Vector Machines and an Application on Natural Gas Consumptions of Power Plants in Turkey <u>Faruk Serin</u> , Suleyman 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 <u>Deniz Eraslan</u> , 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 <u>Sibel Kuzgun Akın</u> and Mustafa Sevüktekin Using production time data for estimating the setup time of the CNC machines and forecasting
15:15 – 15:30	Coffee break

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: Tuşba) 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 Siddık 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 Perihanoglu 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 Bağcı and Talha Arslan An Extension of the Maxwell Distribution: Properties and Application Asuman Yılmaz and Ayşe Kübra Demirel Comparision 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, Beyda Demirci and Işın Kırışkan 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 F. Diğdem Tuncer, Esra Akdeniz and Ayşe Doğu 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: Mustafa Sevüktekin İbrahim Türkoğlu: Using Deep Learning Models in Problem Solving
10:30 – 10:45	Coffee break
10:45 – 11:45	Session 3-1-1 (Room: Tuşba) Chair: Şükrü Acıtaş İlhan Usta and Merve Akdede Bayesian Estimation of the Reduced Kies Distribution Parameters İlhan Usta and <u>Volkan Yeşildere</u> Maximum Likelihood Estimation of the Parameters of the Exponentiated Reduced Kies Distribution via Artificial Bee Colony Algorithm <u>Fatma Gül Akgül</u> and Birdal Şenoğlu Estimation Methods for Three-Parameter Burr Type XII Distribution: Hydrological Application <u>Talha Arslan</u> , Sukru Acitas and Birdal Senoglu Statistical inference for the Moyal distribution under Type-II censoring
	Session 3-1-2 (Room: Hoşap Castle) Chair: Serhat Ömer Rençber Mohamad Nour Qamari, Abdullah Oğuz Kızılcay 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: Esra Akdeniz <u>Anupama Namburu</u> 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 <u>Anupama Namburu</u> Single valued triangular neutrosophic fuzzy c-means for MR brain image segmentation <u>Vijaya J.</u> , 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 forecast Hybrid 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 <u>Emrah Bilgiç</u> 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 Mirtağoğlu Serhat Ömer Rençber, Emre Biçek and Erol Kına Analyzing the effect of various factors on having heart disease Mehmet Mendes and Hamit Mirtağoğlu On Reporting Statistical Analysis Results <u>Hacı Mevlüt Karataş</u> and Berat Harman The Effect Of Maternal Education On The Probability Of Pregnancy Termination Mehmet Mendes and Hamit Mirtağoğlu 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: Sinan Saraçlı Adil Baykasoğlu: Data-Driven Multi-Criteria Decision Making in Decision Engineering
14:15 – 14:30	Coffee break
14:30 – 15:30	Session 3-2-1 (Room: Tuşba) Chair: Leyla Demir Fatih Okumuş and Adnan Fatih Kocamaz Multi-robot Path Planning Using Fractional Order Darwinian Particle Swarm Optimization Algorithm <u>Kübra Bağcı</u> and Talha Arslan A Comparison of Estimation Methods for The Inverted Kumaraswamy Distribution 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: Sinan Saraçlı İbrahim Budak, Günay Kiliç and Bedia Sündüz Kiliç Evaluation of Black Friday Hashtags in Turkey with Sentiment Analysis Anıl Altınata and Aysun Kapucugül İkiz Forecasting The Future Needs Of Customers For New Products Ayse 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: Recep Özdağ Ecrin Nüda Bak, Sanem Şehribanoğlu and Rıdvan Saraçoğlu Optimization of the Holder Table Test Function Using Dynamic Mutated Genetic Algorithm Eren Soygüder, Abdullah Oğuz Kızılcay and Rıdvan Saraçoğlu An application of Genetic Algorithm with Changeable Population Size for Optimization of The Schwefel Function Emine Doğaç 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: Sedat Yayla 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: Murat Canayaz Ahmet Aktas, Mehmet Akif Yerlikaya, Mehmet Kabak and Billur Ecer AHP – TOPSIS Hybrid Approach for Research Assistant Selection 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 Renas Rajab Asaad, Amar Yahya Hussien and Saman M. Almufti A Review: Big Data Technologies with Hadoop Distributed Filesystem
15:30 – 15:45	Coffee break

Friday June 28

15:45 – 16:45	Keynote Speaker (Room: Conference Hall) Chair: Ahmet Öztürk Necmi Gürsakal: 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: Tuşba) 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 Fatih Uludag, Fırat Kapar and H. Eray Çelik Generative Adversarial Networks Based Data Augmentation For Phishing Detection 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 Emre Biçek, H. Eray Çelik, Naci Genç, Serhat Ömer Rençber, Erol Kına and Fırat Kapar Modelling of Photovoltaic Power Generation based on Weather Parameters Using Regression Analysis 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: Sedat Yayla Ahmet Karadoğan and Ali Karcı Modeling Dynamically Behavior of Users in Social Networks using Petri Nets 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, Fatih Karahan, 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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28 June Friday

13:30 – 14:30	Obje Storage and Isilon at Dell Technologies Ferhat Sırka (Senior System Engineer at Dell Technologies)
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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)
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