



TURKISH STATISTICAL
ASSOCIATION



4 - 8 October 2019
BODRUM, MUĞLA, TURKEY



Programme of 11. International Statistics Congress for October 4 (Friday)

		ISTANBUL
	08:30-10:00	REGISTRATION
	10:00-10:30	OPENING CEREMONY
	10:30-10:40	COFFEE BREAK
INVITED SESSION 1	10:40-12:20	INVITED SPEAKER 1
	12:20 - 14:00	LUNCH TIME
INVITED SESSION 2	14:00-14:40	INVITED SPEAKER 2
INVITED SESSION 3	14:40-15:20	INVITED SPEAKER 3
	15:20 - 15:40	COFFEE BREAK
	17:20-19:00	POSTER PRESENTATIONS
	20:30-23:00	COCKTAIL PARTY



**Programme of 11. International Statistics Congress for October 4
(Friday)**

		ISTANBUL	KAPADOKYA/CAPPADOCIA	
Session Chair		(ENG)	(ENG)	
1	SESSION 1 15:40- 17:00	Optimal Bandwidth Selection with Density Functional Estimation for Contaminated Data	Multivariate Intuitionistic Fuzzy Inference System for Time Series Prediction	
		Celal Aydın Necla Gündüz	Ozge Cagcag Yolcu Erol Egrioglu Eren Bas Ufuk Yolcu	
		A new Robust Ridge Parameter Based on Search Method for Linear Regression Model	A Novel Time Series Model Based on Single-Valued Neutrosophic Sets	
		Atila Göktaş Özge Akkuş Aykut Kuvat	Ufuk Yolcu Eren Bas Erol Egrioglu Ozge Cagcag Yolcu	
2		What kind of patterns underlie the ratings students give their professors? A Modern Machine Learning Analysis	Deep Intuitionistic Fuzzy Time Series Forecasting Method Based on LSTM	
		Necla Gündüz Ernest Fokoue	Cem Koçak Erol Egrioglu Eren Bas	
3			Cluster and Forecasting Analysis of The Residential Market in Turkey: An Autoregressive Model Based Fuzzy Clustering Approach	
			Metin Vatansever Ali Hepşen İbrahim Demir	
4				
17:00-17:20		COFFEE BREAK	COFFEE BREAK	



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Programme of 11. International Statistics Congress for October 4 (Friday)

		EFES/EPHESUS	NEMRUT
Session Chair		(ENG)	(TR)
1	SESSION 1 15:40- 17:00	The impact of ICT penetration on financial development: An International Cross-Country Analysis	A Specific Application of Comparison of OECD Countries with Credit Risk Swap Premiums with Quantile Regression and Multiple Regression Analysis Techniques
		Mei-Se Chien Chien-Chiang Lee Chih-Yang Cheng Meta Ayu Kurniawati	İrem Yanık Hüseyin Tatlıdil
		Distribution the DJSTOXE50 Index	Alpha Power Transformed Two-Parameters Rayleigh Distribution: Properties and Inference
		Yasemin Ulu	Hakan Kızılkaya Cenker Biçer
2	SESSION 1 15:40- 17:00	A Longitudinal Data Analysis to Examine the Environmental Kuznets Curve and the European Union Enlargement: The Case of Carbon Monoxide	Log - Two - Parameter Xgamma Distribution: Properties and Inference
		İsmail Onur Baycan	Esra Kızılkaya Cenker Biçer
3	SESSION 1 15:40- 17:00	Identification of Wealthy Households from the Residential Property Price Index Database for Sample Selection for Household Surveys	A Comparison of Variety of Ridge Parameters by Means of Their Distribution and MSE Values
		Evren Ceritoğlu Özlem Ardic Sevinc	Selman Mermi Atıla Göktaş Özge Akkuş
4	17:00-17:20	COFFEE BREAK	COFFEE BREAK



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		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
Session Chair		(ENG)	(ENG)
1	SESSION 1 15:40- 17:00	Finite Mixtures of Skew Laplace Normal Distributions with Random Skewness	Does Gender Diversity, Institutional Ownership and Capital Structure Affect Firm Performance? An Indonesia Real Estate and Property Firms Analysis
		Fatma Zehra Doğru Olca Arslan	Rani Raharjanti
		Convex Combination of Some Estimators: A Comparative Study	Synoptic climatology of Black Sea-effect snowfall events in Istanbul, Turkey
		Buatikan Mirezi Selahattin Kaçiranlar Hüseyin Güler	Hakki Baltacı Bulent Oktay Akkoyunlu
2	SESSION 1 15:40- 17:00	Iterative Robust Bayesian Estimation of Regression Modelling based on Ramsay-Novick Distribution	Statistical Analysis Techniques of Determination of a Key Comparison Reference Value in International Measurement Comparisons
		Mutlu Kaya Emel Cankaya Olca Arslan	Sevda Kaçmaz Hilmi Ege Subat
3	SESSION 1 15:40- 17:00	Mismatch of Ridge Logistic Regression and Support Vector Machine: Financial Distress Estimation	Good Agricultural Practices and Technical Efficiency in Chili Production in Thailand
		Ömer Utku Erzenin	Wirat Krasachat
4	17:00-17:20	COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 4 (Friday)

		HEVSEL BAĞÇELERİ-HEVSEL GARDENS
Session Chair		(TR)
1	SESSION 1 15:40- 17:00	Bayesian Inference for Tobit Model and an Application using with WinBUGS Program
		Samet Kaya Esin Köksal Babacan
		Bibliometric Analysis of Five Journals with The Highest Impact Factor In The Field of Statistics Using Citespace
		Fatma Yardibi Mehmet Ziya Fırat
3	3	Statistical Evaluation of The Cultural Difference Problem Experienced by Refugees in Health Services
		Arzu Altın Yavuz Barış Ergül Şenay Kızılkum
4	4	The Changes in Last 10 Years of the Marriage and Divorce Statistics Based on Regions of Level 2 According Statistical Regional Units Classification (NUTS) in Turkey and Age Groups: Examples 2008 and 2018
		Fatma Sevinç Kurnaz
17:00-17:20		COFFEE BREAK



**Programme of 11. International Statistics Congress for October 5
(Saturday)**

		ISTANBUL	KAPADOKYA/CAPPADOCIA
INVITED SESSION 1	09:00-09:40	INVITED SPEAKER 4	POSTER PRESENTATIONS
INVITED SESSION 2	09:40-10:20	INVITED SPEAKER 5	
	10:20-10:40	COFFEE BREAK	
	Session Chair	(ENG)	(ENG)
1	SESSION 1 10:40- 12:20	Liu and Restricted Liu Estimators in Linear Measurement Error Models	A Mathematical Programming Procedure for Examining Biasing Parameters of Two Stage Two Parameter Estimator
		Gülesen Üstündağ Şiray	Selma Toker Nimet Özbay
Application of Statistical Methodologies for Customer Churn: A case study of Kuwait Telecommunication Sector		Point Estimation for Chen Distribution based on Ranked Set Sampling	
Mohammad Abiad Sorin Ionescu		Muhammet Çavdar Buğra Saraçoğlu	
Examination of Cereal Production, Cereal Yield and Land Under Cereal Production in Turkey		An improper form of Weibull distribution for competing risks analysis with Bayesian approach	
Melis Temiz Nilsu Coskun Semra Cakmak Ozlem Senvar		Ahmad Reza Baghestani Fatemeh Sadat Hosseini-Baharanchi	
A Study on Diagnostics for Two-level Multilevel Regression Models		Developing a First Order Two Parameter Estimator for Generalized Linear Model	
Yasin Altinisik Emel Cankaya		Selma Toker Gülesen Üstündağ Şiray Muhammad Qasim	
Parameter estimation of capital asset pricing model through Quantile regression: An application on Karachi Stock Exchange		Adaptive MCMC for Generalized Method of Moments with Many Moment Conditions	
Amna Riaz Shahid Kamal Nauman Riaz Chaudhry Mohsin Riaz		Masahiro Tanaka	
	12:20 - 14:00	LUNCH TIME	LUNCH TIME
INVITED SESSION 3	14:00-14:40	INVITED SPEAKER 6	
INVITED SESSION 4	14:40-15:20	INVITED SPEAKER 7	
	15:20 - 15:40	COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 5 (Saturday)

		ISTANBUL	KAPADOKYA/CAPPADOCIA
Session Chair		(ENG)	(ENG)
1	SESSION 2 15:40- 17:00	Unit-Lindley Mixed-Effect Model for Ratio Data	Bitcoin Inefficiency Analysis
		Hatice Tul Kubra Akdur	Mária Bohdalová Michal Greguš
2		Modelling Disease Transmission Scenarios Using Field Data and Heavy Tailed Random Effects: The Zika Case	Examine consumer preferences in postal services in Slovakia using discrete choice modelling
		Zafer Bekiryazici Tülay Kesemen Mehmet Merdan Tahir Khaniyev	Ivo Dolezal Urban Kovac
3		Generalization and Compounding Statistical Distributions, Goals and Benefits: A Review	Catch-Up Performance of Turkish Manufacturing Firms and International Trade Effect
		Ehsan Fayyazi Serpil Kiliç Depren	Aslıhan Atabek Demirhan
4		Cumulant Generating Function of Sample Minimum of Order Statistics from Geometric Distribution	A New Methodology for a Functional Innovative Development of Europe
	Aslıhan Demir Ayşe Metin Karakaş Sinan Çalık	Sofija Adzic	
17:00-17:20		COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 5 (Saturday)

		ISTANBUL	KAPADOKYA/CAPPADOCIA
Session Chair		(TR)	(TR)
1	SESSION 3 17:20- 18:40	Bi-Responses Mars Modelling through Earth Package for Regression Type Problems	The Relationship Between the Graph Energies and Vulnerabilities
		Ecevit Eyduran, Meleksen Akın Demet Çanga, Ali Eylem Celik Sadiye Peral Eyduran	Erva Kol Mehmet Ali Balcı Ömer Akgüller
2		New Goodness of Fit Tests for Unit-Lindley Regression Model	On Solving the Generalized Assignment Problem via Hypergraphs
		Deniz Ozonur	Kezban Afetsu Başdoğan Mehmet Ali Balcı Ömer Akgüller
3		Robust Regression Method for Parameters of Power Lindley Distribution	The Cubic Rank Transmutation Method and Applications
		Berivan Çakmak Fatma Zehra Doğru	Demet Sezer Nuri Celik Aydın Karakoca
4		Use of Bootstrap Aggregating (Bagging) MARS to Improve Predictive Accuracy for Regression Type Problems	Hierarchies in Communities of FTSE100 from the Perspective of Brexit
		Ecevit Eyduran Demet Çanga Harun Sevgenler Ali Eylem Celik	Serdar Can Güzel Mehmet Ali Balcı Ömer Akgüller



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		EFES/EPHESUS	NEMRUT	
Session Chair		(ENG)	(ENG)	
1	SESSION 1 10:40- 12:20	Classification with Two-Stage Correlation-Based Attribute Selection on the Big Data platform	The Effect of Uncertainty Shocks on Global Housing Markets	
		Muhammet Sinan Başarslan Fatih Kayaalp	Mei-Se Chien Nur Setyowati	
		2	Re-evaluation of Subtypes of Positional OSAS by Clustering Algorithms	A Proposed Algorithm for Predictive Maintenance Using Statistics
		Adnan Karaibrahimoglu Onder Ozturk	Mohammad Abiad Sorin Ionescu	
		3	Detection of Related Species by Denoising Phylogenetic Trees	The Dependent-Conditional Value-at-Risk Forecast for Aggregate Risk Models
Nebahat Bozkus Stuart Barber	Bony Josaphat Khreshna Syuhada			
4	Examination of Aggregating Clustering Validation Indexes on the Football Players Performance Data Set	Point Cloud Matching with a Vertex Weighted Graph Kernel		
Serhat Emre Akhanlı Oya Kalaycıoğlu	Pelin KAYA Mehmet Ali Balcı Ömer Akgüller			
5		Testing the Hypothesis of Environmental Kuznets Curve with Renyi and Tsallis Mutual Informations		
		Elif Tuna Atif Evren		
12:20 - 14:00		LUNCH TIME	LUNCH TIME	



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Programme of 11. International Statistics Congress for October 5 (Saturday)

		EFES/EPHESUS	NEMRUT
Session Chair		(TR)	(ENG)
1	SESSION 2 15:40- 17:00	Time Series Forecasting via Dendritic Neuron Model Neural Network Trained by Particle Swarm Optimization	Prediction of Failures in Plastic Extrusion Process with Deep Learning
		Ayşe YILMAZ Ufuk YOLCU	Ural Gökay Çiçekli Fatma Demircan Keskin Doğukan İçli
		Financial Time Series Prediction via Convolutional Neural Network	Predicting Patients Future Laboratory Test Result Patterns Via A Novel Unsupervised Deep Learning Model
		Melih Kirişçi Özge Cagcag Yolcu	Gokhan Silahtaroglu Zehra Nur Canbolat Kadir İdin Nevin Yılmaztürk
2	SESSION 2 15:40- 17:00	Multiplicative Neuron Model Based on Threshold Value for Forecasting Problem of Time Series	Sentimental Analysis with Machine Learning Methods on Social Media
		Asiye Nur Yıldırım Eren Bas Erol Egrioglu	Fatih Kayaalp Muhammet Sinan Başarslan
3	SESSION 2 15:40- 17:00	A Comparison Study on Stock Exchange Forecasting	Predicting Sepsis Via Unsupervised Machine Learning Using Bedside Device Data in Hospitals
		Onur Derya Ali Zafer Dalar	Gokhan Silahtaroglu Zehra Nur Canbolat Kadir İdin Nevin Yılmaztürk
4	17:00-17:20	COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 5 (Saturday)

		EFES/EPHESUS	NEMRUT
Session Chair		(ENG)	(ENG)
1	SESSION 3 17:20- 18:40	Machine Learning Based Feature Extraction for Determination of Balance Disorders	Stochastic frontier analysis to measure the impact on the productive efficiency of lemon producers in Michoacán, through the incorporation of the economic costs of insecurity
		Serhat İkizoglu Ezgi Demir Batuhan Atasoy	Laura Plazola Mariela Sandoval
2		Drought Monitoring of Marmara Region using Novel Machine Learning Tools	Asymptotic Results for Stationary Characteristics of Random Walk with a General Interference of Chance
		Ö. Ozan Evkaya Fatma Sevinç Kurnaz	Ozlem Ardic Sevinc Tahir Khaniyev
3		Modeling of BACE-1 Inhibitory activity Using MLR, ANN and SVM Techniques	Mixed Lasso Estimator for Stochastic Restricted Regression Models
		Bashirulla Shaik	Huseyin Guler Ebru Ozgur Guler
4		Household Expenditures Pattern on Durable and Nondurable Goods and Services: A Comparison of Multiple Regression and Neural Network Model	On the Limiting Behaviour of the Ergodic Distribution of Random Walk with a Generalized Reflecting Barrier
		Khadija Fatima Muhammad Suleman Zahoor Ahmed Abeeda Fatima Amna Riaz	Başak Gever Zülfiye Hanalioğlu



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Programme of 11. International Statistics Congress for October 5 (Saturday)

		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
Session Chair		(TR)	(ENG)
1	SESSION 1 10:40- 12:20	Analysis of the Efficiency of Venture Capital Investment Trusts Traded in Borsa İstanbul: A Proposal about Regulating Negative Data	Sector-wise analysis of cardinality constraint portfolio optimization based on a hybrid approach: nonlinear neural network and genetic algorithm
		M. Esra Atukalp	Ilgım Yaman Turkan Erbay Dalkilic
2		Asymmetric Open Vehicle Routing Problem with Heterogeneous Fleet and Time Limitations	Big Data Analytics: Future Perspective and Scope in IT Applications
		Nilay Yaren Çelikoklar Uğur Eliyi	M A Rizvi Anu Mangal
3		An Improved Search Engine for E-Commerce Websites Based on Word2vec Model	Big Data Analythics for Green Supplier Selection Under Sustainable Conditions
		Bahadır Durak Buse Dedeakayoğulları	Abdullah Yıldızbaşı Yağmur Arıöz
4		Investigation of Item Bias of the Foreign Student Examination	Evaluate the Performances of Restaurants and Hotels Listed in BIST 100 Under Balanced Scorecard Perspective Via Plithogenic Decision Making Approach
		Burcu Hasançebi Yüksel Terzi Zafer Küçük	Çağlar Karamaşa
5		Predicting Academic Performance of Foreign Students via Machine Learning Algorithms	Integration of Technical Data into Production Planning
		Özge Altıntaş Furkan Başer Ömer Kutlu Ayşen Apaydın	Michal Gregus Thomas H. Lenhard
12:20 - 14:00		LUNCH TIME	LUNCH TIME
15:20 - 15:40		COFFEE BREAK	COFFEE BREAK



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		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
Session Chair		(TR)	(ENG)
1	SESSION 2 15:40- 17:00	Application of Statistical Process Control in Production Process: A Case Study in Cleaning Products Sector	The Effect of Different Antibiotics Use on Prognosis of Patients who Hospitalized with Urinary Tract Infection: A Retrospective Study
		Gülşen Aydın Keskin Murat Çolak Bengü Güngör	Sevilay Kılınçkaya Osman Gürdal
		Evaluation and Estimation of Wind Speed with Data Mining Methods	Statistical Analysis on the Incidence of Pneumonia as a Major Cause of Infant Mortality and Possible Solutions in Edo State, Nigeria
		Kadriye Ergün Melike Sultan Karasu Aşnaz	Izomo Edogiawerie Julius
2	SESSION 2 15:40- 17:00	Investigating the Effectiveness of Metaheuristic Approaches in Parameter Estimation via TOPSIS Method	The Missing Link: Are Individuals with More Social Capital in Better Health? Evidence from India
		Aynur Şahin Nimet Yapıcı Pehlivan	Barış Alpaslan Julide Yıldırım
3	SESSION 2 15:40- 17:00	Determination of The Number of In-Port Transportation Vehicles by Simulation Modelling	Analyzing hospital high length of stay outliers
		Bengü Güngör Gülşen Aydın Keskin	Pakize Yiğit
4	17:00-17:20	COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 5 (Saturday)

		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
	Session Chair	(TR)	(ENG)
1	SESSION 3 17:20- 18:40	Forecasting the Volatility of Stock Price Index	A Study on Industry 4.0 awareness of undergraduate students by using Structural Equational Modelling
		Eda Yalçın Kayacan	Sevde Ceren Yıldız Seniye Ümit Fırat
2		Using Data Mining Methods for Prediction of Women's Birth Time in Turkey	Depth Based Nonparametric Multivariate Tolerance Regions
		Özer Bakar Duygu İçen	E. Burcu Mamak Ekinci İhsan Karabulut
3		ATAforecasting: An R Package for Automatic Seasonal or Non- seasonal Time Series Forecasting	Regularized Elimination for Variable Selection in Categorical Partial Least Squares
		Hanife Taylan Selamlar Ali Sabri Taylan	Maryam Sadiq Tahir Mehmood Muhammad Aslam
4		Comparing Forecasting Accuracies of ATA and Exponential Smoothing	The Use of Generalized Estimating Equations and Panel Causality Tests in the Evaluation of Countries' Economic
		Beyza Cetin Idil Yavuz	Harun Yonar Neslihan İyit



**Programme of 11. International Statistics Congress for October 6
(Sunday)**

		ISTANBUL	KAPADOKYA/CAPPADOCIA
INVITED SESSION 1	09:00-09:40	INVITED SPEAKER 8	
INVITED SESSION 2	09:40-10:20	INVITED SPEAKER 9	
	10:20-10:40	COFFEE BREAK	
	Session Chair	(TR)	(TR)
1	SESSION 1 10:40- 12:20	A Comparison of Regression Analysis Methods for Beer Consumption	Alignment Method: Concept and Application
		Duygu Dede Şener	Gizem Uyumaz Gözde Sırgancı Alperen Yandı
2		Modified Two Parameter Estimator to Combat Multicollinearity: A Comparative Study	Different Methods for Testing of Measurement Invariance with Many Groups
		Selahattin Kaçiranlar Nimet Özbay Ecem Özkan	Gözde Sırgancı Gizem Uyumaz Alperen Yandı
3		The Government Revenue– Expenditure Nexus: Symmetric and Asymmetric Causality Tests	Institutional Quality and Income Inequality: Panel Cointegration Analysis in 12 Developing Countries
		Şule Nazlı Arslan Havvanur Feyza Erdem	Seyit Ali Miçoğulları Süleyman Değirmen
4		The Validity of Easterlin Hypothesis in Turkish Economy	Examine of Mathematical Anxiety of Engineering Students by Factor Analysis
		Ayşenur Üçeş Havvanur Feyza Erdem	Şüheda Güray Tülay Korkmaz Devrani
5		A Modeling Study for Discrete and Continuous Variables by Using Parametric and Nonparametric Regression Analysis	The Impact of Perceptions of Social Media Advertisements on Advertising Value and Brand Awareness: Research on Generation Y Instagram Users"
		Gözde KARAKOÇ Özlem TÜRKŞEN	İbrahim Halil Efendioğlu Yakup Durmaz
	12:20 - 14:00	LUNCH TIME	LUNCH TIME
INVITED SESSION 3	14:00-14:40	INVITED SPEAKER 10	
INVITED SESSION 4	14:40-15:20	INVITED SPEAKER 11	
	15:20 - 15:40	COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 6 (Sunday)

		ISTANBUL	KAPADOKYA/CAPPADOCIA
Session Chair		(ENG)	(ENG)
1	SESSION 2 15:40- 17:00	Debt and Economic Growth Nexus in the US: Evidence from Asymmetric Causality	Mixed Frequency Estimation by Smoothed Least Squares
		Nebile Korucu	Selma Toker Nimet Özbay Kristofer Månsson
		Investigation of the Effects of Research Supports on Academic Performance of Turkish Universities by Using Correlation, Regression and Path Analyses	Algebraic Methods for the Problem of Fitting Concentric Ellipses to Digitized Observations
		Esra Satıcı Bulut Tunca Özge Akkuş	Ali-AI Saradqah Lorenzo Rulli
2	SESSION 2 15:40- 17:00	Lifelong Learner: Question-Answering Chatbot	Parameter Estimation of Dirichlet Distribution Based on Entropy
		Ezgi Özen	B. Sahin A. Evren
3	SESSION 2 15:40- 17:00	Determinants of Trade Flows in Turkey	Considering Linear Constraints for Almon Two Parameter Ridge Estimation
		Bilgin Bari	Nimet Özbay Selma Toker
4	SESSION 2 15:40- 17:00		
17:00-17:20		COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 6 (Sunday)

		ISTANBUL	KAPADOKYA/CAPPADOCIA
Session Chair		(ENG)	(TR)
1	SESSION 3 17:20- 18:40	Some Properties Provided by Fourier Transform with Distrubition Function in Statistics	Multi Criteria Group Decision Making with Neutrosophic Sets
		Seçil Yalaz	Ayşegül TUŞ Gülin Zeynep ÖZTAŞ Abdullah ÖZÇİL Tayfun ÖZTAŞ Esra AYTAÇ ADALI
		Two Way Mixed Design: Symmetry Assumption and Missing Data	The relationship between the Stock of Car Loans and the growth of the Automotive Sector from a times series analysis
		Sevgi Demircioğlu	Burcu Barlas
3	SESSION 3 17:20- 18:40	Approximation of Continuous Random Variables for Evaluating Reliability of Complex Stress-Strength Models	Causality relationship between insurance sector with variable basic macro dynamics in Turkey
		Alessandro Barbiero	Fatma Esin KURT
4	SESSION 3 17:20- 18:40	Adaptation of the r-d class prediction method to linear mixed models	Neutrosophic ARAS Method for Selection Problems
		Özge Kuran	Esra AYTAÇ ADALI Tayfun ÖZTAŞ Abdullah ÖZÇİL Gülin Zeynep ÖZTAŞ Ayşegül TUŞ



**Programme of 11. International Statistics Congress for October 6
(Sunday)**

		EFES/EPHESUS	NEMRUT
Session Chair		(ENG)	(TR)
1	SESSION 1 10:40- 12:20	Data Dimensionality Reduction based on Variables Clustering	Determining the Most Risky Production Area By Using Aggregated Criteria Importance Weights
		Arnaldo Rabello de Aguiar Vallim-Filho, Pedro Okidoi, Leandro Augusto da Silva, Marco Vinicius Bhering de Aguiar Vallim, Leilton Santos da Silva	Gülin Feryal Can Pelin Toktaş
		Neutrosophic Linear Regression Analysis of Construction Accidents in Turkey	Creating Risk Based Quality Management Procedures in A Company Producing Medical Devices
		Şüra Toptancı Nihal Erginel Ilgin Acar	Selin Sezer Pelin Toktaş
		An Application of Cluster Analysis Based on Competitive Intensity and Market Turbulence of Firm	Vehicle Headway Modeling with Exponentiated Weibull Distribution using Ranked Set Sampling Method
2		Sinem Peker	Busra Sevinc Selma Gürler Melek Esemen
		The Huber Functions and Their Application to a Classification Problem	Control Charts for the Compound Weibull Exponential Distribution under Truncated Life Tests
3		Henryk Gacki Agnieszka Kulawik	Canan Hamurkaroğlu Ayten Yiğiter
			Statistical Errors in Specialization in Medicine Thesis
4			Ayşegül Yabacı Fatma Ezgi Can Fisun Kesin Robab Ahmadian Ilker Ercan
5			
12:20 - 14:00		LUNCH TIME	LUNCH TIME



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Programme of 11. International Statistics Congress for October 6 (Sunday)

		EFES/EPHESUS	NEMRUT
Session Chair		(TR)	(ENG)
1	SESSION 2 15:40- 17:00	An Approach of Feature Selection Consensus for the Gas Sensors' Drift Data	Receiver Operating Characteristic (ROC) Analysis in Clinical Diagnosis: A Diabetes Case
		Çağatay Berke ERDAŞ Gülnur Begüm ERGÜN Selda GÜNEY	Ebru Dumlupınar Osman Gürdal Yusuf Bilen
The Ranking of Cities for Household Consumption Expenditures in Turkey with RANKING-KEMIRA-M Approach		Examining the response of olfactory stimulus in EEG signals	
Pelin Toktaş		Begüm Kara Gülay Neslihan Demirel Alper Vahaplar Çağdaş Güdücü	
Evaluation of Feature Reduction and Classification Methods for Activity Recognition		Research of Stochastic Properties of a Population Model with Fokker Planck Equation Under Allee Effect	
Çağatay Berke Erdaş Didem Ölçer		Çağatay Eskin Özgür Gültekin	
Evaluation of Classification Algorithms for Multi-class Wine Dataset		A Satellite Images Based Sampling Approach in An African City	
Hamit Can Zor Duygu Dede Şener		Bayram Samet Şahin Hakan Demirbüken M. Akif Bakır	
17:00-17:20		COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 6 (Sunday)

		EFES/EPHESUS	NEMRUT
Session Chair		(ENG)	(TR)
1	SESSION 3 17:20- 18:40	A New Heuristic Algorithm for the Label Printing Problem	Circular Analyses of Dates on Patients with Gastric Carcinoma
		Emre Çankaya Ali Ekici Okan Örsan Özener	Adnan Karaibrahimoğlu Seren Ayhan
		Curve Fitting for Environmental Measurements by Artificial Intelligence Techniques	Importance of Fractal Structures in Modern Biology and Discussion of Forward Kolmogorov Equation with Fractional Derivative Approach
		Ayşe Nurcan Kapucu Ceyhun Kapucu Oğuz Akpolat	Esra Yazıcıoğlu Özgür Gültekin
2	SESSION 3 17:20- 18:40	Estimating Optimal Value for the Shrinkage and Biasing Parameters in Liu-Type Logistic Regression based on Particle Swarm Optimization	Examination of Incidences of HIV Infection and Tuberculosis in Some Selected European Countries with Statistical Process Control
		Nuriye Sancar Deniz Inan	O Toluk I Ercan H Akalin
3	SESSION 3 17:20- 18:40		A Two-Population Model with Renewal Process for Measuring Longevity Basis Risk
			Selin Özen Şule Şahin
4	SESSION 3 17:20- 18:40		



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Programme of 11. International Statistics Congress for October 6 (Sunday)

		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
Session Chair		(ENG)	(ENG)
1	SESSION 1 10:40- 12:20	Performance Evaluation of Non-Life Insurance Companies via Grey Relational Analyse and Analytic Hierarchy Process	Estimation of AR(1) Model Having Generalized Logistic Disturbances
		Murat Kırkağaç Övgücan Karadağ Erdemir	Özlem Türker Bayrak Ayşen Dener Akkaya
		A Multi-Criteria Decision-Making Approach for Location Selection for Disaster and Emergency Management Authority (AFAD)	Performance of Variance ratio tests in presence of heteroskedasticity: Application to stock returns data in Pakistan
		Melike Sultan Karasu Aşnaz Kadriye Ergun	Nuzhat Aftab Muhammed Sohail
		Multi-Criteria Decision Making in Site Selection for Nuclear Power Plants: Multi-Attribute Utility Approach	Forecasting tourist arrivals with economic regressors: A grid search on combinations of different individual models
2		Berna Tuncer Ayşen Dener Akkaya	Emrah Gülay Korkut Bekiroglu Okan Duru
		A Numerical Approximation of Inversion Method to Generating Random Numbers	ARIMA Model for Monthly Crude Oil Forecasting in Iraq
3		Orhan Kesemen Buğra Kaan Tiryaki Ayşe Pak	Qais Mustafa Abdulqader
4			
5			
12:20 - 14:00		LUNCH TIME	LUNCH TIME



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Programme of 11. International Statistics Congress for October 6 (Sunday)

		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
Session Chair		(ENG)	(ENG)
1	SESSION 2 15:40- 17:00	Preemptive Goal Programming for the Daily Shipment Planning of an Automotive Lubricant Company	Supervised Learning Based Apparel Recommendation System for Online Shopping System
		Deniz Türsel Eliiyi Sel Özcan Uğur Eliiyi	Selver Ezgi Küçükbay Nafiye Kübra Turhan
The Use of AHP-TOPSIS Method in Technopark Preferences of Technology Companies: Istanbul Case		Predicting Loss Aversion Behaviour with Machine Learning Methods	
İsmail Durak Hakan Murat Arslan Yahya Özdemir		Omur Saltik Ridvan Soyu Suleyman Degirmen	
Two-stage solution framework for a workload balancing and workforce scheduling problem: A comparative study		Predicting Bubbles in the S&P 500 Index with Macroeconomic Indicators: A Machine Learning Approach	
Sel Özcan Uğur Eliiyi Deniz Türsel Eliiyi		Fatma Başoğlu Kabran Kamil Demirberk Ünlü	
The Returns to College Education and Subject of Degrees in Turkey: A Cross Sectional Analysis on 2008-2017 Period		Credit Scoring with Using Alternative Model Techniques	
Hakan Ulucan Cemil Çiftçi		Zeynep Bal M. Aydın Erar	
17:00-17:20		COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 6 (Sunday)

		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
	Session Chair	(TR)	(TR)
1	SESSION 3 17:20- 18:40	The Effects of Financial Innovation on Economic Growth in The Banking Sector: Case of Regions and Provinces	Human Identification with Deep LSTM by Using Biometric Walking Patterns
		Aynur KARAÇOBAN Ömür SALTIK Süleyman DEĞİRMEN	Çağatay Berke Erdaş Didem Ölçer
2		Net External Position, Financial Development, and Banking Crisis	Different Approaches to Reducing Bias in Classification of Medical Data by Ensemble Learning Methods
		Aytül Ganioglu	Adem DOĞANER
3		The Gravity Model of International Immigration: Evidence from OECD Countries	Reduce Unexpected Airline Diverts: Modelling with Neural Network
		Ali Acaravcı Seyfettin Artan Cemalettin Kalaycı Sinan Erdoğan	Hazal Berve Doğan Derya Gözen Hakan Maral Tahir Hanalioğlu
4		A Promotion Planning Model with Product Substitution and Promotion Fatigue	Financial Distress Prediction Using Support Vector Machine with Optimal Parameter and Feature Selection
		Dilek Tüzün Aksu Bahadır Durak Buse Dedeakayoğulları	Seyyide Doğan Şenol Altan



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Programme of 11. International Statistics Congress for October 7 (Monday)

		ISTANBUL	KAPADOKYA/CAPPADOCIA
Session Chair		(ENG)	(ENG)
1	SESSION 1 09:00- 10:20	The Role of Social Capital in Environmental Protection Efforts: Evidence from Turkey	Nonparametric Statistical Methods for the Comparison of Two Treatments in the Presence of Competing Risks
		Julide Yıldırım Barış Alpaslan Erdener Emin Eker	Jingjing Lyu Jinbao Chen Yawen Hou Zheng Chen
2		Spatial Statistical Analysis for Geodetic Points of a Simulated Fault Plane through Geographical Information Systems	Modification of S Test Statistics for Randomized Block Designs with Autocorrelated Longitudinal Data
		Özlem Türkşen	Melike Kaya Bahçecitapar
3		Assessment of Longevity Risk on Pension Funds: Credibility Approach	Novel Approaches for Choosing Optimum Cut-Off Value
		Bükre Yıldırım Külekci A. Sevtap Selçuk-Kestel	Naime Meric Konar
4		The Effects of a Promotion on Store Traffic, Conversion, and Customer Expenditures: Evaluation with a Prediction Approach	Prognostic model Animated Film Festival – VAFI
		Ignacio E. Inostroza-Quezada Leonardo D. Epstein	Lovorka Gotal Dmitrovic Hrvoje Selec Mario Lesina
10:20-10:40		COFFEE BREAK	



**Programme of 11. International Statistics Congress for October 7
(Monday)**

		ISTANBUL	KAPADOKYA/CAPPADOCIA
Session Chair		(ENG)	(TR)
1	SESSION 2 10:40- 12:20	The p-Splines Model in Predicting PM10 Concentrations	Opposition Based Particle Swarm Optimization for Feature Selection
		Betul Kan-Kilinc Huruy D. Asfha	Merve Özdemir Ümmügülsüm Can Berna Kiraz
2		Evaluating Negative Binomial Regression and Zero Truncated Negative Binomial Regression for Different Dispersion Parameters	Artificial Bee Colony Algorithm for Estimating Parameters of a Flexible Weibull Distribution
		Eda Çakmak Ergun Karaağaoğlu	Ilhan Usta Volkan Yesildere
3		Binary Particle Swarm Optimization as a Detection Tool for Influential Subsets in Linear Regression	A Study on Loss Probability of a Blocked Queueing System
		Deniz İnan Gokce Deliorman	Erdiñ Yücesoy Vedat Sağlam Murat Sağır
4		Type-1 Penalized Regression Functions	Parameter Estimation of the Kies Distribution by Artificial Bee Colony Algorithm
		Nihat Tak Deniz İnan	Ilhan Usta Volkan Yesildere
5		J-Inflated longitudinal regression models for analyzing responses with finite support	Data Mining of SILC Data: Turkey Case
		Mojtaba Ganjali Taban Baghfalaki	Olgun Özdemir İbrahim Demir
12:20 - 14:00		LUNCH TIME	LUNCH TIME



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Programme of 11. International Statistics Congress for October 7 (Monday)

		EFES/EPHESUS	NEMRUT
Session Chair		(TR)	(ENG)
1	SESSION 1 09:00- 10:20	Classification of OECD Countries with Socio-Economic and Education Indicators	An Experimental Design Application in Chemistry for Optimization of Assay Conditions for tRNA
		Ebru Özgür Güler Dilek Veysikarani	Oğuz Akpolat
		Theoretical and Practical Comparison of the Frequency Based Classification Methods: Education Sample	Smoothing Techniques in Solving Absolute Value Equations
		Cengiz Gazeloğlu Sinan Saraçlı	Nurullah Yılmaz Ahmet Sahiner
2		An Approach of Feature Selection Consensus for the Gas Sensors' Drift Data	Approximated Convex Bezier Curve for the Continuation Global Optimization Approach
		Çağatay Berke ERDAŞ Gülnur Begüm ERGÜN Selda GÜNEY	Ahmet Sahiner Idris A. Masoud Abdulhamid Nurullah Yılmaz
3		Ranking of Turkish Universities Based on Academic Performance by Using Fuzzy c-means Clustering Algorithm	A New Smoothing Technique for Total Variation Minimization in Image Denoising
		Ayşen Apaydin Fatih Tank Furkan Başer	Ahmet Sahiner Shehab A. Ibrahim
4		COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 7 (Monday)

		EFES/EPHESUS	NEMRUT
Session Chair		(TR)	(ENG)
1	SESSION 2 10:40- 12:20	Comparison of Predictive Performances of CART and Logistic Regression Models: Application of Life Satisfaction	Noise Reduction In Chaotic Time Series For Improved Feature Selection, Abnormal Process Detection, And Process Modeling
		Arzu Yavuz Özgül Vupa Çilengiroğlu	Puneet Choudhary Shibu Meher Brahma Deo Manish Goyal
		Investigation of Possibility of Being Poor in Turkey with Probit Analysis	Linear and Nonlinear Unit Root Tests Application: Turkish Electricity Consumption Per Person
		Tuba Yakıcı Ayan Nurdan Değirmenci	Fatih ÇEMREK Büşra Yıldız
		Some Properties of Covariance Matrices of Predictors under Seemingly Unrelated Regression Models	The Impacts of Oil Price Fluctuations on the Turkish Stock Market: Correlations, Volatility Spillover and Hedging
2		Nesrin Güler	Vasif Abioglu
		Statistical Analysis of Wheat Flour Quality Parameters	Detection of Mode-Mixing Problem in EMD of Time Series Signal Data
3		Barış Ergül Arzu Altın Yavuz	Atacan Erdiş M. Akif Bakır Muhammed I Jaiteh
		Wage Dynamics According to Income Group in Turkey: 2014-2017 Period	Investigation of The Relationship Between Turkey and Economic Growth Industrial Production Index
4		Şenay Üçdoğruk Birecikli Nilgün Acar Balaylar Hamdi Emeç	Fatih ÇEMREK Büşra Yıldız
		12:20 - 14:00	LUNCH TIME



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		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
Session Chair		(ENG)	(TR)
1	SESSION 1 09:00- 10:20	Optimal Bus-Garage Allocations and Garage Capacity Analysis Using a Map Interface	A Meta Analysis Approach on Work – Family Balance and Job Satisfaction
		Uğur Eliyi Selcen Coşkun	Ebru Özgür Güler Didem Keskin
		An Exact Approach for A Dynamic Workforce Scheduling Problem	Energy Consumption and Economic Growth: Panel Simultaneous Equation Models
		Okan Örsan Özener	Pınar Hayaloğlu Seyfettin Artan Selim Koray Demirel
2	SESSION 1 09:00- 10:20	Use of Six Sigma Method as A Process Improvement Techniques	The Impact of Medical Tourism on the Turkey Economic Performance
		Atakan Gerger Ali Rıza Firuzan	Berhan Çoban
3	SESSION 1 09:00- 10:20	Data Mining in Finance: Comparing Decision Trees and Association Rules for Stock Price Prediction in BIST 100	Modelling the Mediator Effect of Demographic Features on Clients' Deposit via Structural Equation Modelling
		G.Ataman S.Kahraman	Sinan Saraçlı Cengiz Gazeloğlu
4	SESSION 1 09:00- 10:20		
10:20-10:40		COFFEE BREAK	COFFEE BREAK



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		PAMUKKALE/HIERAPOLIS	GOBEKLI TEPE
Session Chair		(ENG)	(ENG)
1	SESSION 2 10:40- 12:20	Estimating the Output GAP for Lebanon: A Production Function methodology	Modelling Language Extinction Using Susceptible-Infectious-Removed (SIR) Model
		Latifa Ghalayini	Nehemiah Arhoesere Ikoba Emmanuel Teju Jolayemi
		Sunk Costs and Exporting Behavior: A Sectoral Analysis	Volatility Measurement Entropy Methods
		Kurmaş Akdoğan Laura M. Werner	Ayşe Metin Karakaş Aslıhan Demir Sinan Çalık
		Complexly Interwoven Stochastic and Chaotic Tendencies in the Profit-Interest Ratios at a Recent Crisis Juncture in Turkey: Possibilities for Crisis-Management	Entropy Approach for Wind Energy
2		Ahmet Kara	Ayşe Metin Karakaş Aslıhan Demir Sinan Çalık
		Practical Tests of Financial Bubbles: Better Critical Values for Detecting Exuberant Behavior	A Markov Chain Model of Language Extinction
3		Ufuk Demiroğlu Aytül Ganioglu	Nehemiah Arhoesere Ikoba Emmanuel Teju Jolayemi
		Inference of Economic Performance Using Global Trade Data	
4		Orhun Sevinç	
5		LUNCH TIME	LUNCH TIME



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		HEVSEL BAHÇELERİ-HEVSEL GARDENS	
Session Chair		(ENG)	
1	SESSION 1 09:00- 10:20	Combination of Forecasting Benchmarks on M4 Competition Data Sets Tuğçe Ekiz Yılmaz	
2		Financial Data Analysis by Exponential Smoothing and ATA Method Selma ŞALK Güçkan YAPAR	
3		Exchange Rate Volatility and Stock Returns: A case of China and Turkey Tao Wang Özlem Sayılır	
4		Examining the Financial Success of Stocks by Using Data Mining Techniques Serpil Altınırmak Ezgi Demir Batuhan Atasoy Çağlar Karamaşa	
10:20-10:40		COFFEE BREAK	
Session Chair		(TR)	
1		SESSION 1 10:40- 12:20	Change Point Detection in ARMA(p,q) Process and Application on Headway Data Almila Hacıoğlu Aylin Alin Süheyla Pelin Çalışkanelli Ufuk Beyaztaş
2			A New Robust Unit Root Test with a Simulation Study Hakan Türkay Özge Gündoğdu
3	Automatic Determination of K Parameter Value of K-Means for Time Series Clustering Fatma Ozge Ozkok Metek Celik		
4			
5			
12:20 - 14:00		LUNCH TIME	