



TURKISH STATISTICAL
ASSOCIATION



4 - 8 October 2019
BODRUM, MUĞLA, TURKEY



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

| | | ISTANBUL |
|----------------------|---------------|---|
| | 08:30-10:30 | REGISTRATION |
| | 10:30-12:00 | OPENING CEREMONY |
| | 12:00 - 14:00 | LUNCH TIME |
| INVITED SESSION 2 | 14:00-14:40 | Composite Indicators – History and Present Andrzej Sokolowski |
| INVITED SESSION 3 | 14:40-15:20 | M4 Competition: Ata Method and Others Güçkan Yapar |
| | 15:20 - 15:40 | COFFEE BREAK |
| | 17:20-19:00 | POSTER PRESENTATIONS |



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| | | ISTANBUL | KAPADOKYA/CAPPADOCIA |
|---|------------------------------|--|--|
| Session Chair | | Lovarka Gotal DMITROVIC (ENG) | Agnieszka KULAWIK (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 | |
| 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 | |
| The Returns to College Education and Subject of Degrees in Turkey: A Cross Sectional Analysis on 2008-2017 Period | | Market Basket Analysis and an Application in Turkey by using Association Rules | |
| Hakan Ulucan Cemil Çiftçi | | Yüksel Akay Ünvan | |



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| | | EFES/EPHESUS | NEMRUT |
|---------------|------------------------------|---|--|
| Session Chair | | Ayşen Dener AKKAYA (ENG) | Ebru Özgür GÜLER (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 |
| | | Determinants of Trade Flows in Turkey | Bibliometric Analysis of Five Journals with The Highest Impact Factor In The Field of Statistics Using Citespace |
| | | Bilgin Bari | Fatma Yardibi Mehmet Ziya Fırat |
| 2 | | A Longitudinal Data Analysis to Examine the Environmental Kuznets Curve and the European Union Enlargement: The Case of Carbon Monoxide | A Comparison of Variety of Ridge Parameters by Means of Their Distribution and MSE Values |
| | | İsmail Onur Baycan | Selman Mermi Atıla Göktaş Özge Akkuş |
| 3 | | Identification of Wealthy Households from the Residential Property Price Index Database for Sample Selection for Household Surveys | |
| | | Evren Ceritoğlu Özlem Ardic Sevinc | |
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| | | PAMUKKALE/HIERAPOLIS | GOBEKLI TEPE |
|---|------------------------------|---|--|
| Session Chair | | Hüseyin GÜLER (ENG) | Özlem Türker Bayrak (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 | |
| Type-1 Penalized Regression Functions | | Regularized Elimination for Variable Selection in Categorical Partial Least Squares | |
| Nihat Tak Deniz İnan | | Maryam Sadiq Tahir Mehmood Muhammad Aslam | |
| Mismatch of Ridge Logistic Regression and Support Vector Machine: Financial Distress Estimation | | Estimation of AR(1) Model Having Generalized Logistic Disturbances | |
| Ömer Utku Erzençin | | Özlem Türker Bayrak Ayşen Dener Akkaya | |
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| | | HEVSEL BAHÇELERİ/HEVSEL GARDENS |
|---------------|------------------------------|--|
| Session Chair | | Deniz Türsel ELİİYİ (TR) |
| 1 | SESSION 1 15:40- 17:00 | Analysis of the Efficiency of Venture Capital Investment Trusts Traded in Borsa İstanbul: A Proposal about Regulating Negative Data M. Esra Atukalp |
| 2 | | 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 |
| 3 | | Classification with Two-Stage Correlation-Based Attribute Selection on the Big Data platform Muhammet Sinan Başarslan Fatih Kayaalp |
| 4 | | |



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

| | | ISTANBUL | HEVSEL BAHÇELERİ HEVSEL GARDENS | |
|----------------------|------------------------------|---|--|------------|
| INVITED SESSION 1 | 09:00-09:40 | Statistical Approaches for Retrospective Detection of Multiple Change Points with Applications Jie Chen | POSTER PRESENTATIONS | |
| INVITED SESSION 2 | 09:40-10:20 | Interval Type-2 Fuzzy System and its Applications Hak-Keung Lam | | |
| | 10:20-10:40 | COFFEE BREAK | | |
| | Session Chair | Mohammad ABIAD (ENG) | Müjgan TEZ (ENG) | |
| 1 | SESSION 1 10:40- 12:20 | Liu and Restricted Liu Estimators in Linear Measurement Error Models Gülesen Üstündağ Şiray | A Mathematical Programming Procedure for Examining Biasing Parameters of Two Stage Two Parameter Estimator Selma Toker Nimet Özbay | |
| 2 | | Application of Statistical Methodologies for Customer Churn: A case study of Kuwait Telecommunication Sector Mohammad Abiad Sorin Ionescu | Point Estimation for Chen Distribution based on Ranked Set Sampling Muhammet Çavdar Buğra Saraçoğlu | |
| 3 | | A Proposed Algorithm for Predictive Maintenance Using Statistics Mohammad Abiad Sorin Ionescu | An improper form of Weibull distribution for competing risks analysis with Bayesian approach Ahmad Reza Baghestani Fatemeh Sadat Hosseini-Baharanchi | |
| 4 | | A Study on Diagnostics for Two-level Multilevel Regression Models Yasin Altinisik Emel Cankaya | Developing a First Order Two Parameter Estimator for Generalized Linear Model Selma Toker Gülesen Üstündağ Şiray Muhammad Qasim | |
| 5 | | Parameter estimation of capital asset pricing model through Quantile regression: An application on Karachi Stock Exchange Amna Riaz Shahid Kamal Nauman Riaz Chaudhry Mohsin Riaz | Adaptive MCMC for Generalized Method of Moments with Many Moment Conditions Masahiro Tanaka | |
| | | 12:20 - 14:00 | LUNCH TIME | LUNCH TIME |



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

| | | ISTANBUL | HEVSEL BAHÇELERİ HEVSEL GARDENS |
|---|------------------------------|--|--|
| | Session Chair | Ayşen Dener AKKAYA (ENG) | Aytaç PEKMEZCİ (TR) |
| 1 | SESSION 2 14:00- 15:20 | Iterative Robust Bayesian Estimation of Regression Modelling based on Ramsay-Novick Distribution | The Impact of Medical Tourism on the Turkey Economic Performance |
| | | Mutlu Kaya Emel Cankaya Olca Arslan | Berhan Çoban |
| Parameter Estimation of Dirichlet Distribution Based on Entropy | | Automatic Determination of K Parameter Value of K-Means for Time Series Clustering | |
| Büşra Şahin Atıf Evren | | Fatma Ozge Ozkok Mete Celik | |
| Multi-Criteria Decision Making in Site Selection for Nuclear Power Plants: Multi-Attribute Utility Approach | | Predicting Sepsis Via Unsupervised Machine Learning Using Bedside Device Data in Hospitals | |
| Berna Tuncer Ayşen Dener Akkaya | | Gokhan Silahtaroglu Zehra Nur Canbolat Kadir İdinNevin Yılmaztürk | |
| 4 | | Clustering of Vector Autoregressive Models: An Application on Air Pollution | Aytaç PEKMEZCİ |
| | 15:20-15:40 | COFFEE BREAK | COFFEE BREAK |



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(Saturday)**

| | | ISTANBUL | HEVSEL BAHÇELERİ HEVSEL GARDENS | |
|-------------|------------------------------|--|---|--|
| | Session Chair | Berna YAZICI (ENG) | Michal GREGUŠ (ENG) | |
| 1 | SESSION 3 15:40- 17:00 | Considering Linear Constraints for Almon Two Parameter Ridge Estimation | Bitcoin Inefficiency Analysis | |
| | | Nimet Özbay Selma Toker | 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 | | Mixed Frequency Estimation by Smoothed Least Squares | Catch-Up Performance of Turkish Manufacturing Firms and International Trade Effect | |
| | | Selma Toker Nimet Özbay Kristofer Månsson | Aslıhan Atabek Demirhan | |
| 4 | | Unit-Lindley Mixed-Effect Model for Ratio Data | Blockchain Technology and Crypto Money Concept and an Application on Bitcoin | |
| | | Hatice Tul Kubra Akdur | Yüksel Akay Ünvan | |
| 17:00-17:20 | | COFFEE BREAK | COFFEE BREAK | |



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**Programme of 11. International Statistics Congress for October 5
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| | | ISTANBUL | HEVSEL BAHÇELERİ HEVSEL GARDENS |
|---------------|------------------------------|---|--|
| Session Chair | | Aytaç PEKMEZCİ (TR) | İlker ERCAN (TR) |
| 1 | SESSION 4 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 | Adnan KARAİBRAHİMOĞLU (ENG) | Mária BOHDALOVÁ (ENG) |
| 1 | SESSION 1 10:40- 12:20 | Optimal Bus-Garage Allocations and Garage Capacity Analysis Using a Map Interface | The Effect of Uncertainty Shocks on Global Housing Markets |
| | | Uğur Eliyi Selcen Coşkun | Mei-Se Chien Nur Setyowati |
| Re-evaluation of Subtypes of Positional OSAS by Clustering Algorithms | | Examination of Cereal Production, Cereal Yield and Land Under Cereal Production in Turkey | |
| Adnan Karaibrahimoglu Onder Ozturk | | Melis Temiz Nilsu Coskun Semra Cakmak Ozlem Senvar | |
| Detection of Related Species by Denosing Phylogenetic Trees | | The Dependent-Conditional Value-at- Risk Forecast for Aggregate Risk Models | |
| Nebahat Bozkus Stuart Barber | | Bony Josaphat Khreshna Syuhada | |
| 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 | |
| Performance of Variance ratio tests in presence of heteroskedasticity: Application to stock returns data in Pakistan | | Testing the Hypothesis of Environmental Kuznets Curve with Renyi and Tsallis Mutual Informations | |
| Nuzhat Aftab Muhammed Sohail | | Elif Tuna Atif Evren | |
| 12:20 - 14:00 | | LUNCH TIME | LUNCH TIME |



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| | | EFES/EPHESUS | NEMRUT |
|---------------|------------------------------|--|---|
| Session Chair | | Ayten YiğİTER (TR) | Gökhan SİLAHTAROĞLU (ENG) |
| 1 | SESSION 2 14:00- 15:20 | Time Series Forecasting via Dendritic Neuron Model Neural Network Trained by Particle Swarm Optimization | The Missing Link: Are Individuals with More Social Capital in Better Health? Evidence from India |
| | | Ayşe YILMAZ Ufuk YOLCU | Barış Alpaslan Julide Yıldırım |
| | | 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 Yilmaztürk |
| 3 | | Multiplicative Neuron Model Based on Threshold Value for Forecasting Problem of Time Series | The Role of Social Capital in Environmental Protection Efforts: Evidence from Turkey |
| | | Asiye Nur Yıldırım Eren Bas Erol Egrioglu | Julide Yıldırım Barış Alpaslan Erdener Emin Eker |
| 4 | | A Comparison Study on Stock Exchange Forecasting | Prediction of Failures in Plastic Extrusion Process with Deep Learning |
| | | Onur Derya Ali Zafer Dalar | Ural Gökay Çiçekli Fatma Demircan Keskin Doğukan İçli |
| 15:20-15:40 | | COFFEE BREAK | COFFEE BREAK |



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| | | EFES/EPHESUS | NEMRUT |
|---------------|------------------------------|---|--|
| Session Chair | | Amna RIAZ (ENG) | Laura PLAZOLA (ENG) |
| 1 | SESSION 3 15:40- 17:20 | Drought Monitoring of Marmara Region using Novel Machine Learning Tools | 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 |
| | | Ö. Ozan Evkaya Fatma Sevinç Kurnaz | Laura Plazola Mariela Sandoval |
| | | Modeling of BACE-1 Inhibitory activity Using MLR, ANN and SVM Techniques | Asymptotic Results for Stationary Characteristics of Random Walk with a General Interference of Chance |
| | | Bashirulla Shaik | Ozlem Ardic Sevinc Tahir Khaniyev |
| 2 | SESSION 3 15:40- 17:20 | Household Expenditures Pattern on Durable and Nondurable Goods and Services: A Comparison of Multiple Regression and Neural Network Model | Mixed Lasso Estimator for Stochastic Restricted Regression Models |
| | | Khadija Fatima Muhammad Suleman Zahoor Ahmed Abeeda Fatima Amna Riaz | Huseyin Guler Ebru Ozgur Guler |
| 3 | SESSION 3 15:40- 17:20 | | On the Limiting Behaviour of the Ergodic Distribution of Random Walk with a Generalized Reflecting Barrier |
| | | | Başak Gever Zülfiye Hanalioğlu |
| 4 | | | |
| 17:20-17:40 | | COFFEE BREAK | COFFEE BREAK |



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| | | PAMUKKALE/HIERAPOLIS | GOBEKLI TEPE |
|---------------|------------------------------|---|--|
| Session Chair | | Atakan GERGER (TR) | Murtaza Abbas RİZVİ (ENG+TR) |
| 1 | SESSION 1 10:40- 12:20 | Depth Based Nonparametric Multivariate Tolerance Regions | A Gravity Model: Maritime Transport Costs and Their Impact on Economy |
| | | E. Burcu Mamak Ekinci İhsan Karabulut | Nurten Çalışkan Burcu Özge Özaslan Çalışkan |
| 2 | | Predicting Academic Performance of Foreign Students via Machine Learning Algorithms | Big Data Analytics: Future Perspective and Scope in IT Applications |
| | | Özge Altıntaş Furkan Başer Ömer Kutlu Ayşen Apaydın | M A Rizvi Anu Mangal |
| 3 | | Investigation of Possibility of Being Poor in Turkey with Probit Analysis | Big Data Analythics for Green Supplier Selection Under Sustainable Conditions |
| | | Tuba Yakıcı Ayan Nurdan Değirmenci | 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 Hasaıcebi Yüksel Terzi Zafer Küçük | Çağlar Karamaşa |
| 5 | | Asymmetric Open Vehicle Routing Problem with Heterogeneous Fleet and Time Limitations | Integration of Technical Data into Production Planning |
| | | Nilay Yaren Çelikoklar Uğur Eliyi | Michal Gregus Thomas H. Lenhard |
| 12:20 - 14:00 | | LUNCH TIME | LUNCH TIME |



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| | | PAMUKKALE/HIERAPOLIS | GOBEKLI TEPE |
|---------------|------------------------------|--|---|
| Session Chair | | Deniz İNAN (TR) | Izomo Edogiawerie JULIUS (ENG) |
| 1 | SESSION 2 14:00- 15:20 | 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 14:00- 15:20 | Investigating the Effectiveness of Metaheuristic Approaches in Parameter Estimation via TOPSIS Method | Analyzing hospital high length of stay outliers |
| | | Aynur Şahin Nimet Yapıcı Pehlivan | Pakize Yiğit |
| 3 | SESSION 2 14:00- 15:20 | Determination of The Number of In-Port Transportation Vehicles by Simulation Modelling | Receiver Operating Characteristic (ROC) Analysis in Clinical Diagnosis: A Diabetes Case |
| | | Bengü Güngör Gülşen Aydın Keskin | Ebru Dumlupınar Osman Gürdal Yusuf Bilen |
| 4 | 15:20-15:40 | COFFEE BREAK | COFFEE BREAK |



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| | | PAMUKKALE/HIERAPOLIS | GOBEKLI TEPE |
|---------------|------------------------------|---|--|
| Session Chair | | Esra SATICI (TR) | Tahir MEHMOOD (ENG) |
| 1 | SESSION 3 15:40- 17:00 | 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 |
| | | Using Data Mining Methods for Prediction of Women's Birth Time in Turkey | Good Agricultural Practices and Technical Efficiency in Chili Production in Thailand |
| | | Özer Bakar Duygu İçen | Wirat Krasachat |
| 2 | SESSION 3 15:40- 17:00 | An Improved Search Engine for E-Commerce Websites Based on Word2vec Model | The Use of Generalized Estimating Equations and Panel Causality Tests in the Evaluation of Countries' Economic |
| | | Bahadır Durak Buse Dedeakayoğulları | Harun Yonar Neslihan İyit |
| 3 | SESSION 3 15:40- 17:00 | Comparing Forecasting Accuracies of ATA and Exponential Smoothing | |
| | | Beyza Cetin İdil Yavuz | |
| 4 | SESSION 3 15:40- 17:00 | | |
| | | | |
| 17:00-17:20 | | COFFEE BREAK | COFFEE BREAK |



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

| | | ISTANBUL | KAPADOKYA/CAPPADOCIA | |
|-------------------|--------------------------|--|--|------------|
| INVITED SESSION 1 | 09:00-09:40 | Mixture Distribution Models with Variable Weights: Reliability and Risk Modeling In Complex Chaotic Systems Hamza EROL | Generative Adversarial Networks: Future Has Coming Now Mu-Yen Chen | |
| INVITED SESSION 2 | 09:40-10:20 | Analysis of Nonlinear Longitudinal Data: Statistical Modelling and Experimental Design Timothy O'Brien | | |
| | 10:20-10:40 | COFFEE BREAK | | |
| | Session Chair | Nebile KORUCU GÜMÜŞOĞLU (TR) | Şüheda GÜRAY (TR) | |
| 1 | SESSION 1 10:40-12:20 | A Comparison of Regression Analysis Methods for Beer Consumption Duygu Dede Şener | Alignment Method: Concept and Application Gizem Uyumaz / Gözde Sırgancı Alperen Yandı | |
| 2 | | Modified Two Parameter Estimator to Combat Multicollinearity: A Comparative Study Selahattin Kaçıranlar Nimet Özbay / Ecem Özkan | Different Methods for Testing of Measurement Invariance with Many Groups Gözde Sırgancı / Gizem Uyumaz Alperen Yandı | |
| 3 | | The Government Revenue–Expenditure Nexus: Symmetric and Asymmetric Causality Tests Şule Nazlı Arslan Havvanur Feyza Erdem | Institutional Quality and Income Inequality: Panel Cointegration Analysis in 12 Developing Countries Seyit Ali Miçoğulları Süleyman Değirmen | |
| 4 | | The Validity of Easterlin Hypothesis in Turkish Economy Ayşenur Üçeş Havvanur Feyza Erdem | Examine of Mathematical Anxiety of Engineering Students by Factor Analysis Şüheda Güray Tülay Korkmaz Devrani | |
| 5 | | A Modeling Study for Discrete and Continuous Variables by Using Parametric and Nonparametric Regression Analysis Gözde KARAKOÇ Özlem TÜRKŞEN | The Impact of Perceptions of Social Media Advertisements on Advertising Value and Brand Awareness: Research on Generation Y Instagram Users" İbrahim Halil Efendioğlu Yakup Durmaz | |
| | | 12:20 - 14:00 | LUNCH TIME | LUNCH TIME |
| INVITED SESSION 3 | | 14:00-14:40 | Establishment of an International Consortium of Statisticians for the Achievement of Sustainable Development Goals Saleha Habibullah | |
| INVITED SESSION 4 | | 14:40-15:20 | Ensemble Strategy Based Evolutionary Algorithm for Global Optimization Problems Wali Khan Mashwani | |
| | | 15:20 - 15:40 | COFFEE BREAK | |



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

| | | ISTANBUL | KAPADOKYA/CAPPADOCIA |
|---------------|------------------------------|--|--|
| Session Chair | | Betül KAN KILINÇ (ENG) | Hakan KIZILKAYA (TR) |
| 1 | SESSION 2 15:40- 17:00 | Debt and Economic Growth Nexus in the US: Evidence from Asymmetric Causality | Alpha Power Transformed Two-Parameters Rayleigh Distribution: Properties and Inference |
| | | Nebile Korucu | Hakan Kızılkaya Cenker Biçer |
| 2 | | Investigation of the Effects of Research Supports on Academic Performance of Turkish Universities by Using Correlation, Regression and Path Analyses | Statistical Errors in Specialization in Medicine Thesis |
| | | Esra Satıcı Bulut Tunca Özge Akkuş | Ayşegül Yabancı Fatma Ezgi Can Fisun Kesin Robab Ahmadian Ilker Ercan |
| 3 | | Lifelong Learner: Question-Answering Chatbot | Log - Two - Parameter Xgamma Distribution: Properties and Inference |
| | | Ezgi Özen Adil Alpoçak | Esra Kızılkaya Cenker Biçer |
| 4 | | Generalization and Compounding Statistical Distributions, Goals and Benefits: A Review | Statistical Evaluation of The Cultural Difference Problem Experienced by Refugees in Health Services |
| | | Ehsan Fayyazi Serpil Kiliç Depren | Arzu Altın Yavuz Barış Ergül Şenay Kızılkum |
| 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 | | Alessandro BARBIERO (ENG) | Ayşegül TUŞ (TR) |
| 1 | SESSION 3 17:20- 18:40 | Algebraic Methods for the Problem of Fitting Concentric Ellipses to Digitized Observations | Multi Criteria Group Decision Making with Neutrosophic Sets |
| | | Ali-Al Saradqah Lorenzo Rulli | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | SESSION 3 17:20- 18:40 | | |
| | | | |



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

| | | EFES/EPHESUS | HEVSEL BAHÇELERİ HEVSEL GARDENS |
|---------------|------------------------------|---|---|
| Session Chair | | Henryk GACKI (ENG) | Süleyman GÜNAY (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 |
| | | 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 |
| | | Henryk Gacki Agnieszka Kulawik | Canan Hamurkaroğlu Ayten Yiğiter |
| | | Classification of Artworks with Deep Learning Methods: Ebru and Suminagashi | Statistical Analysis of Wheat Flour Quality Parameters |
| | | Aysin Tasdelen Sebnem Ozdemir | Bariş Ergül Arzu Altın Yavuz |
| 12:20 - 14:00 | LUNCH TIME | LUNCH TIME | |



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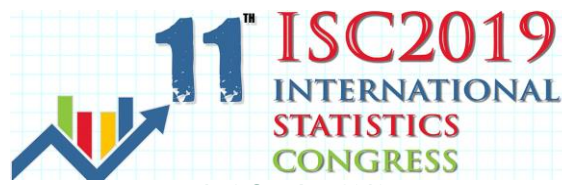


Programme of 11. International Statistics Congress for October 6 (Sunday)

| | | EFES/EPHESUS | HEVSEL BAHÇELERİ HEVSEL GARDENS |
|---------------|------------------------------|---|--|
| Session Chair | | Pelin TOKTAŞ (TR) | M. Akif BAKIR (ENG) |
| 1 | SESSION 2 15:40- 17:00 | An Approach of Feature Selection Consensus for the Gas Sensors' Drift Data | Examining the response of olfactory stimulus in EEG signals |
| | | Çağatay Berke ERDAŞ Gülnur Begüm ERGÜN Selda GÜNEY | Begüm Kara Gülay Neslihan Demirel Alper Vahaplar Çağdaş Güdücü |
| 2 | | The Ranking of Cities for Household Consumption Expenditures in Turkey with RANKING-KEMIRA-M Approach | Research of Stochastic Properties of a Population Model with Fokker Planck Equation Under Allee Effect |
| | | Pelin Toktaş | Çağatay Eskin Özgür Gültekin |
| 3 | | Evaluation of Feature Reduction and Classification Methods for Activity Recognition | A Satellite Images Based Sampling Approach in An African City |
| | | Çağatay Berke Erdaş Didem Ölçer | Bayram Samet Şahin Hakan Demirbüken M. Akif Bakır |
| 4 | | Some Properties Provided by Fourier Transform with Distrubition Function in Statistics | Data Science and Big Data Analytics Education – Serbian perspective |
| | | Seçil Yalaz | Dragan Vukmirovic Tijana Comic Zoran Radojicic |
| 17:00-17:20 | | COFFEE BREAK | COFFEE BREAK |



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| | | EFES/EPHESUS | HEVSEL BAHÇELERİ HEVSEL GARDENS |
|---------------|------------------------------|--|--|
| Session Chair | | Oğuz AKPOLAT (ENG) | İlker ERCAN (TR) |
| 1 | SESSION 3 17:20- 19:00 | 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 |
| 2 | | 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 |
| 3 | | 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 | Özlem Toluk İlker Ercan Halis Akalın |
| 4 | | A traffic accident prediction model based on ANN | A Two-Population Model with Renewal Process for Measuring Longevity Basis Risk |
| | | Beyzanur Cayir Ervural | Selin Özen Şule Şahin |
| 5 | | Improvement of official statistics by applying the concept of Big Data – Case study: Serbia | |
| | | Tijana Comic Dragan Vukmirovic Aleksandar Djokovic | |



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

| | | PAMUKKALE/HIERAPOLIS | GOBEKLI TEPE |
|---|------------------------------|---|--|
| | Session Chair | Melike KAYA BAHÇECİTAPAR (ENG) | Qais Mustafa ABDULQADER (ENG) |
| 1 | SESSION 1 10:40- 12:20 | Performance Evaluation of Non-Life Insurance Companies via Grey Relational Analyse and Analytic Hierarchy Process | Sector-wise analysis of cardinality constraint portfolio optimization based on a hybrid approach: nonlinear neural network and genetic algorithm |
| | | Murat Kırkağaç Övgücan Karadağ Erdemir | Ilgım Yaman Turkan Erbay Dalkilic |
| 2 | | A Multi-Criteria Decision-Making Approach for Location Selection for Disaster and Emergency Management Authority (AFAD) | Statistical Analysis Techniques of Determination of a Key Comparison Reference Value in International Measurement Comparisons |
| | | Melike Sultan Karasu Aşnaz Kadriye Ergun | Sevda Kaçmaz Hilmi Ege Subat |
| 3 | | A Numerical Approximation of Inversion Method to Generating Random Numbers | Forecasting tourist arrivals with economic regressors: A grid search on combinations of different individual models |
| | | Orhan Kesemen Buğra Kaan Tiryaki Ayşe Pak | Emrah Gülay Korkut Bekiroglu Okan Duru |
| 4 | | | ARIMA Model for Monthly Crude Oil Forecasting in Iraq |
| | | | Qais Mustafa Abdulqader |
| 5 | | | |
| | | 12:20 - 14:00 | LUNCH TIME |



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| | | PAMUKKALE/HIERAPOLIS | GOBEKLI TEPE | |
|---------------|------------------------------|---|--|--|
| Session Chair | | Uğur ELİİYİ (ENG) | Ayten YİĞİTER (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 | |
| 2 | | 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 Saltık Ridvan Soyu Suleyman Degirmen | |
| 3 | | 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 | |
| 4 | | Machine Learning Based Feature Extraction for Determination of Balance Disorders | Credit Scoring with Using Alternative Model Techniques | |
| | | Serhat İkizoglu Ezgi Demir Batuhan Atasoy | 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 | Ali ACARAVCI (TR) | Adem DOĞANER (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 Hanaloğlu |
| 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 |



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

| | | ISTANBUL | KAPADOKYA/CAPPADOCIA |
|----------------------|---------------------------------------|---|---|
| Session Chair | | Barış ALPASLAN (ENG) | Melike KAYA BAHÇECİTAPAR (ENG) |
| 1 | SESSION 1 09:00- 10:20 | Distribution the DJSTOXXE50 Index | Nonparametric Statistical Methods for the Comparison of Two Treatments in the Presence of Competing Risks |
| | | Yasemin Ulu | Jingjing Lyu Jinbao Chen Yawen Hou Zheng Chen |
| | | 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 |
| 2 | | 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 |
| 3 | | 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 |
| 4 | | | |
| 10:20-10:40 | | COFFEE BREAK | |



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

| | | ISTANBUL | KAPADOKYA/CAPPADOCIA |
|---------------|------------------------------|---|--|
| Session Chair | | Deniz İNAN (ENG) | İlhan USTA (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 Ümmügülüm Can Berna Kiraz |
| | | 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 |
| | | Binary Particle Swarm Optimization as a Detection Tool for Influential Subsets in Linear Regression | A Study on Loss Probability of a Blocked Queueing System |
| 2 | | Deniz İnan Gokce Deliorman | Erdoğan Yücesoy Vedat Sağlam Murat Sağır |
| | | J-Inflated longitudinal regression models for analyzing responses with finite support | Parameter Estimation of the Kies Distribution by Artificial Bee Colony Algorithm |
| 3 | | Mojtaba Ganjali Taban Baghfalaki | Ilhan Usta Volkan Yesildere |
| | | A Markov Chain Model of Language Extinction | Data Mining of SILC Data: Turkey Case |
| 4 | | Nehemiah Arhosesere Ikoba Emmanuel Teju Jolayemi | Olgun Özdemir İbrahim Demir |
| | | | |
| 5 | | | |
| 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 | Ebru Özgür GÜLER (TR) | Oğuz AKPOLAT (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 |
| 2 | | 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 |
| 3 | | ATA forecasting: An R Package for Automatic Seasonal or Non- seasonal Time Series Forecasting | Approximated Convex Bezier Curve for the Continuation Global Optimization Approach |
| | | Hanife Taylan Selamlar Ali Sabri Taylan | Ahmet Sahiner Idris A. Masoud Abdulhamid Nurullah Yılmaz |
| 4 | | 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 |
| | 10:20-10:40 | COFFEE BREAK | COFFEE BREAK |



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

| | | EFES/EPHESUS | NEMRUT |
|---------------|------------------------------|--|---|
| Session Chair | | Nesrin GÜLER (TR) | Brahma DEO (ENG) |
| 1 | SESSION 2 10:40- 12:20 | Comparison of Predictive Performances of CART and Logistic Regression Models: Application of Life Satisfaction | The Impacts of Oil Price Fluctuations on the Turkish Stock Market: Correlations, Volatility Spillover and Hedging |
| | | Arzu Yavuz Özgül Vupa Çilengiroğlu | Vasif Abioglu |
| 2 | | Some Properties of Covariance Matrices of Predictors under Seemingly Unrelated Regression Models | Linear and Nonlinear Unit Root Tests Application: Turkish Electricity Consumption Per Person |
| | | Nesrin Güler | Fatih ÇEMREK Büşra Yıldız |
| 3 | | Bayesian Inference for Tobit Model and an Application using with WinBUGS Program | Noise Reduction In Chaotic Time Series For Improved Feature Selection, Abnormal Process Detection, And Process Modeling |
| | | Samet Kaya Esin Köksal Babacan | Puneet Choudhary Shibu Meher Brahma Deo Manish Goyal |
| 4 | | Wage Dynamics According to Income Group in Turkey: 2014-2017 Period | Detection of Mode-Mixing Problem in EMD of Time Series Signal Data |
| | | Şenay Üçdoğruk Birecikli Nilgün Acar Balaylar Hamdi Emeç | Atacan Erdiş M. Akif Bakır Muhammed I Jaiteh |
| 5 | | Modelling the Mediator Effect of Demographic Features on Clients' Deposit via Structural Equation Modelling | Investigation of The Relationship Between Turkey and Economic Growth Industrial Production Index |
| | | Sinan Saraçlı Cengiz Gazeloğlu | Fatih ÇEMREK Büşra Yıldız |
| 12:20 - 14:00 | | LUNCH TIME | LUNCH TIME |



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| | | PAMUKKALE/HIERAPOLIS | GOBEKLI TEPE |
|---|---|--|--|
| Session Chair | | Atakan GERGER (ENG) | İlhan USTA (TR) |
| 1 | SESSION 1 09:00- 10:20 | Modelling Language Extinction Using Susceptible-Infectious-Removed (SIR) Model | Energy Consumption and Economic Growth: Panel Simultaneous Equation Models |
| | | Nehemiah Arhosesere Ikoba Emmanuel Teju Jolayemi | Pınar Hayaloğlu Seyfettin Artan Selim Koray Demirel |
| An Exact Approach for A Dynamic Workforce Scheduling Problem | | Cumulant Generating Function of Sample Minimum of Order Statistics from Geometric Distribution | |
| Okan Örsan Özener | | Aslıhan Demir Ayşe Metin Karakaş Sinan Çalık | |
| Use of Six Sigma Method as A Process Improvement Techniques | | Volatility Measurement Entropy Methods | |
| Atakan Gerger Ali Rıza Firuzan | | Ayşe Metin Karakaş Aslıhan Demir Sinan Çalık | |
| Data Mining in Finance: Comparing Decision Trees and Association Rules for Stock Price Prediction in BIST 100 | | Entropy Approach for Wind Energy | |
| G.Ataman S.Kahraman | Ayşe Metin Karakaş Aslıhan Demir Sinan Çalık | | |
| 10:20-10:40 | | COFFEE BREAK | COFFEE BREAK |



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| | | PAMUKKALE/HIERAPOLIS | GOBEKLI TEPE | |
|---------------|---|--|---|--|
| Session Chair | | Latifa GHALAYINI (ENG) | Özge GÜNDOĞDU (TR) | |
| 1 | SESSION 2 10:40- 12:20 | Estimating the Output GAP for Lebanon: A Production Function methodology | Change Point Detection in ARMA(p,q) Process and Application on Headway Data | |
| | | Latifa Ghalayini | Almila Hacıoğlu Aylin Alin Süheyla Pelin Çalışkanelli Ufuk Beyaztaş | |
| | | 2 | Sunk Costs and Exporting Behavior: A Sectoral Analysis | A New Robust Unit Root Test with a Simulation Study |
| | | | Kurmaş Akdoğan Laura M. Werner | Hakan Türkay Özge Gündoğdu |
| | | 3 | Complexly Interwoven Stochastic and Chaotic Tendencies in the Profit-Interest Ratios at a Recent Crisis Juncture in Turkey: Possibilities for Crisis-Management | A Meta Analysis Approach on Work – Family Balance and Job Satisfaction |
| Ahmet Kara | Ebru Özgür Güler Didem Keskin | | | |
| 4 | Practical Tests of Financial Bubbles: Better Critical Values for Detecting Exuberant Behavior | | | |
| | Ufuk Demiroğlu Aytül Ganioglu | | | |
| 5 | Inference of Economic Performance Using Global Trade Data | | | |
| | Orhun Sevinç | | | |
| 12:20 - 14:00 | | LUNCH TIME | LUNCH TIME | |



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| | | HEVSEL BAHÇELERİ/HEVSEL GARDENS | |
|---|------------------------------|---|--------------|
| | Session Chair | M. Akif BAKIR (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 |



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POSTER SESSIONS

| | | |
|---|---|---|
| 1 | POSTER SESSIONS <i>October 4 (Friday) 17:20-19:00</i> & <i>October 5 (Saturday) 09:00-10:20</i> | The Effects of Time Interval on Test-Retest Reliability |
| | | İlker Ercan Fatma Ezgi Can Guven Ozkaya Mehmet Onur Kaya |
| 2 | | Penalized Power Properties of Computation Methods for the Generalized F-test |
| | | Berna Yazıcı Mustafa Çavuş |
| 3 | | Kumaraswamy generalized exponential distributions with accelerated failure time |
| | | K. Aidi N. Seddik-Ameur |
| 4 | | |
| | | |