

11TH ISC2019
INTERNATIONAL
STATISTICS
CONGRESS

4-8 OCTOBER
2019

VOGUE HOTEL BODRUM



TÜRK İSTATİSTİK DERNEĞİ



Congress Programme

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TURKISH STATISTICAL
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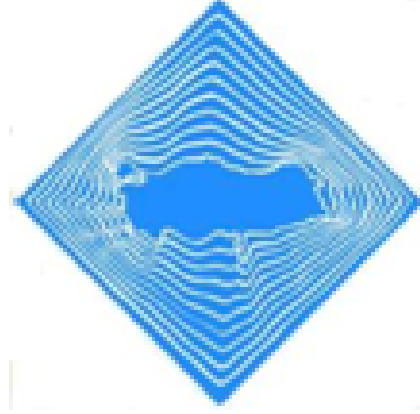
4 - 8 October 2019
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BODRUM, MUĞLA, TURKEY



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

		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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(Friday)

		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 Tatlıdıl
2		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
3		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
4		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	
2			
3			
4			



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

		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	
		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	
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		
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		
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	
		Clustering of Vector Autoregressive Models: An Application on Air Pollution	
4			Aytaç PEKMEZCİ
	15:20-15:40	COFFEE BREAK	COFFEE BREAK



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Programme of 11. International Statistics Congress for October 5 (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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		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 Canga, 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 Canga Harun Sevgenler Ali Eylem Celik	Serdar Can Güzel Mehmet Ali Balcı Ömer Akgüller



**Programme of 11. International Statistics Congress for October 5
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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	
		2	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
		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	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	



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

		EFES/EPHESUS	NEMRUT
	Session Chair	Ayten YİĞİTER (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
2		Financial Time Series Prediction via Convolutional Neural Network	Predicting Patients Future Laboratory Test Result Patterns Via A Novel Unsupervised Deep Learning Model
		Melih Kirişçi Ozge 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



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

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

		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
		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
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 Miçooğulları Süleyman Değirmen	
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	
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	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 Alpkoçak	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
2		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		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		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	HEVSEL BAĞÇELERİ 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	Gülın 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
		Şura Toptancı Nihal Erginel İlgin 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 Hamurkarođlu Ayten Yiđiter
		Classification of Artworks with Deep Learning Methods: Ebru and Suminagashi	Statistical Analysis of Wheat Flour Quality Parameters
		Aysin Tasdelen Sebnem Ozdemir	Barış 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
		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
2	SESSION 2 15:40- 17:00	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
3	SESSION 2 15:40- 17:00	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
4	17:00-17:20	COFFEE BREAK	COFFEE BREAK



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

		EFES/EPHESUS	HEVSEL BAHÇELERİ HEVSEL GARDENS
		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 Ceyhan 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	İlgım Yaman Turkan Erbay Dalkilic
		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
		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
2		Orhan Kesemen Buğra Kaan Tiryaki Ayşe Pak	Emrah Gülay Korkut Bekiroglu Okan Duru
			ARIMA Model for Monthly Crude Oil Forecasting in Iraq
3			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		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
		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
2	SESSION 2 15:40- 17:00	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
3	SESSION 2 15:40- 17:00	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
4	17:00-17:20	COFFEE BREAK	COFFEE BREAK



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		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



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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	
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	
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	



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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 Ümmügülsüm 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	İlhan 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	Erdiñ 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	İlhan 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			
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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
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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 Arhoesere Ikoba Emmanuel Teju Jolayemi	Pınar Hayaloğlu Seyfettin Artan Selim Koray Demirel
2		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
3		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
4		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			
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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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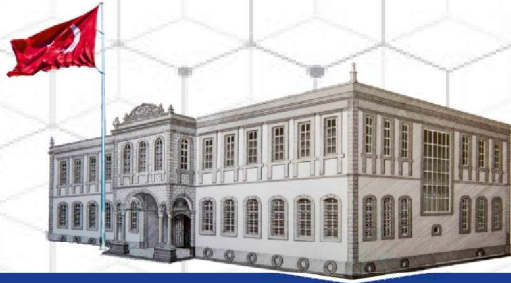


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POSTER SESSIONS

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
2		<i>İlker Ercan Fatma Ezgi Can Guven Ozkaya Mehmet Onur Kaya</i>
3		Penalized Power Properties of Computation Methods for the Generalized F-test
4		<i>Berna Yazıcı Mustafa Çavuş</i>
		Kumaraswamy generalized exponential distributions with accelerated failure time
		<i>K. Aidi N. Seddik-Ameur</i>



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