

9th ICAS JUNE 20-22, 2023

Time zone in Turkey (GMT+3)

20 JUNE 2023 TUESDAY

11:45 – 12:00

OPENING CEREMONY

Professor Ismihan BAYRAMOGLU / Izmir University of Economics - Turkey

12:00 – 12:30	Keynote Speech: Professor José Fernando LOPEZ-BLAZQUEZ / University of Sevilla – Spain <i>Discrete q-Beta Distributions and Analogs of Order Statistics in Geometric Distributions</i>
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12:30- 12:45	B R E A K
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SESSION A

SESSION CHAIR	Krzysztof JASIŃSKI	
TIME	PAPER TITLE	PRESENTER / CO-AUTHOR
12:45 - 13:00	Optimal Plan for Ordered Step-stress Stage Life Testing	Shuvashree MONDAL / Debashis SAMANTA / Debasis KUNDU
13:00 - 13:15	Sequences of random variables predicted with conditional expectations	Ismihan BAYRAMOGLU
13:15 - 13:30	On the status of component failures in a working coherent system under inspections	Krzysztof JASIŃSKI

13:30 - 13:35	B R E A K
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13:35 - 13:55	Invited Speech: Professor Anna DEMBIŃSKA / Warsaw University of Technology – Poland <i>Likelihood Inference for Geometric Lifetimes of Components of k-out-of-n Systems</i>
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13:55 - 14:00	B R E A K
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SESSION B

SESSION CHAIR	Ozge KURAN	
TIME	PAPER TITLE	PRESENTER / CO-AUTHOR
14:00- 14:15	Efficient Sampling from the PKBD Distribution	Lukas SABLICA / Kurt HORNIK / Josef LEYDOLD
14:15 - 14:30	Robust Estimation of Correlation Coefficient via Ranked Set Sampling: Application to Bivariate Normal Distribution	Yusuf Can SEVIL / Tugba OZKAL YILDIZ
14:30 - 14:45	A New Two-Parameter Biased Prediction Class in Linear Mixed Models	Ozge KURAN

14:45 – 14:50	B R E A K
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14:50 - 15:20	Keynote Speech: Professor Leda MINKOVA / Sofia University – Bulgaria <i>Compound Discrete Time Geometric Process</i>
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15:20 - 15:30	B R E A K
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SESSION C

SESSION CHAIR	Jamila KALANTAROVA	
TIME	PAPER TITLE	PRESENTER / CO-AUTHOR
15:30 - 15:45	Benford's Law and the Digits of Powers of Two in Ternary Numeral System	Yagub N. ALIYEV
15:45 - 16:00	Gegenbauer Wavelet Solutions of Lane-Emden Equations	Demet OZDEK / Sevin GUMGUM
16:00 - 16:15	Global non-existence of the initial value problem for nonlinear thermoelasticity-type equations	Jamila KALANTAROVA

16:15 - 16:20	B R E A K
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16:20 - 16:40	Invited Speech: Professor Maria LONGOBARDI / Università di Napoli Federico II – Italy <i>Cumulative entropies in terms of moments of order statistics</i>
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16:40 - 16:45	B R E A K
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SESSION D

SESSION CHAIR	Gulder KEMALBAY	
TIME	PAPER TITLE	PRESENTER / CO-AUTHOR
16:45 - 17:00	Skewness Correction Ewma for Non-Normal Processes	Aminou MOUSTAPHA / Derya KARAGÖZ
17:00 - 17:15	Bayesian Inversion into Soil Types with Kernel-Likelihood Models	Selamawit SERKA MOJA / Henning MORE
17:15 - 17:30	Distribution of conditional bivariate order statistics via modifications of the bivariate binomial distribution	Gulder KEMALBAY

17:30 - 18:00	B R E A K
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18:00 - 18:30	Keynote Speech: Professor Narayanaswamy BALAKRISHNAN / McMaster University – Canada <i>Relationships between cumulative entropy/extropy, Gini mean difference and probability weighted moments</i>
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18:30 - 18:45	B R E A K
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18:45 - 19:15	Keynote Speech: Professor Barry C. ARNOLD / University of California- USA <i>Half-normal curiosities</i>
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21 JUNE 2023 WEDNESDAY

11:45 – 12:15	Keynote Speech: Professor Eugenia STOIMENOVA / Bulgarian Academy of Sciences – Bulgaria <i>Multi-Sample Rank Tests for Location against Ordered Alternatives</i>
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12:15 - 12:30	B R E A K
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SESSION E

SESSION CHAIR	Fatma NOYAN TEKELI	
TIME	PAPER TITLE	PRESENTER / CO-AUTHOR
12:30 – 12:45	Drought Area Prediction with Remote Sensing Data Based on Machine Learning Methods	Gokce GOK/ Burcu HUDAVERDI
12:45 – 13:00	Online Statistics Education Using Web-based Software, eStat	Jung Jin LEE
13:00 – 13:15	Implementation of Recommender Systems Using Genetic Algorithm for E-Commerce	Merve POSLU / Guvenc ARSLAN / Sevil BACANLI
13:15 – 13:30	Daily Natural Gas Price Prediction with Long Short-Term Memory	Coskun PARIM / Batuhan OZKAN / Fatma NOYAN TEKELI

13:30- 13:40	B R E A K
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SESSION F

SESSION CHAIR	Gulhayat GOLBASI SIMSEK	
TIME	PAPER TITLE	PRESENTER / CO-AUTHOR
13:40 - 13:55	Analysis of Maximum Precipitation in Thailand Using Model Averaging of Non-Stationary Extreme Value Models	Thanawan PRAHADCHAI / Jeong-Soo PARK
13:55 - 14:10	Machine Learning Applications in Detecting Obfuscated Malware	Opetunde IBITOYE / Mary AGOYI / Aysegul EREM
14:10 – 14:25	Analyzing Centrality and Connectivity in Airport Networks: A Focus on Turkey and Europe	Cem ERSOZ / Filiz KARAMAN
14:25 – 14:40	A Hybrid Method Based on Wavelet Transform and Neural Network Approach for Meteorological Data Prediction	Gokce Nur TASAGIL ARSLAN / Serpil KILIC DEPREN
14:40 - 14:55	Stochastic Processes in Insurance Science	Andreas MAKRIDES

14:55 - 15:15	B R E A K
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15:15–15:45	Keynote Speech: Professor Haikady NAGARAJA / The Ohio State University – USA <i>Odds ratios from logistic, geometric, Poisson, and negative binomial regression models</i>
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15:45 - 16:00	B R E A K
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SESSION G

SESSION CHAIR	Arzu BAYGUL EDEN	
TIME	PAPER TITLE	PRESENTER / CO-AUTHOR
16:00 – 16:15	Unleashing Diversity Potential: The What-If Group Voting Recommendation System	Uguray DURDU / Atilla Recep BASARAN / Alperen BALIK / Enes KACAR / Alper ONER
16:15 - 16:30	A New Perspective on the Evaluation of Comorbidity Indices on Survival	Alev BAKIR / Benan MUSELLIM / Mustafa S. SENOCAK
16:30 – 16:45	Turkish Validation of Meta-analysis Observational Studies in Epidemiology (MOOSE) Check List	Arzu BAYGUL EDEN / Neslihan GÖKMEN INAN / Alev BAKIR KAYI

16:45 - 17:00	B R E A K
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17:00 - 17:30	Keynote Speech: Professor Omer OZTURK / The Ohio State University – USA <i>Order Restricted Randomized Block Designs</i>
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17:30 - 18:00	Keynote Speech: Professor Ilham AKHUNDOV / University of Waterloo – Canada <i>Characterizations of distributions based on regression and related statistics</i>
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18:00 - 18:15	B R E A K
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SESSION H

SESSION CHAIR	Yazgi TUTUNCU	
TIME	PAPER TITLE	PRESENTER / CO-AUTHOR
18:15 – 18:30	Statistical Analysis of Altitude Effect on Daily Selective Attention Task Performance	Yazgi TUTUNCU / Sermin TUKEL / Hasan KAZDAGLI
18:30 – 18:45	A Numerical Approach to Investigate the Spread of COVID-19	Ayse BELER / Sevin GUMGUM
18:45 – 19:00	Discrete time approach on linear consecutive-k-out-of-n system	Cihangir KAN

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22 JUNE 2023 THURSDAY

09:00 – 09:30	Keynote Speech: Professor Alex KARAGRIGORIOU / University of the Aegean – Greece <i>Power Divergence Statistics and the Modified Family for the Zero Count Case</i>
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09:30 - 09:40	B R E A K
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09:40 - 10:00	Invited Speech: Professor Coskun KUS / Selcuk University – Turkey <i>A Class of Non-parametric Tests for the Two-Sample Problem Based on Order Statistics</i>
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10:00 - 10:10	B R E A K
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10:10 - 10:30	Invited Speech: Professor Debasis KUNDU / Indian Institute of Technology Kanpur – India <i>Bivariate Distributions with Singular Components</i>
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10:30 – 10:45 CLOSING CEREMONY
Professor Ismihan BAYRAMOGLU / Izmir University of Economics - Turkey