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| *80_ASMDAInternational*  ***Stochastic Modeling Techniques and Data Analysis International Conference******Chania, Crete, Greece, 4 – 7 June, 2024 Hybrid*** |
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| **Tuesday, 4.6.2024** |
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| **TIME ZONE:** [EEST — Eastern European Summer Time](https://www.timeanddate.com/time/zones/eest) |
| **Venue: Cultural Centre Of Chania****Andrea Papandreou 74** |
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| **8:30 – 10:00****Registration** |
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| **10:00 – 10:20****Room 1** [**Opening**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) |
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| **10:20-12:00****Opening Ceremony and Plenary Session** [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8)(**PS1)****Chair: Christos H Skiadas****Florence Noblet on Jaques Janssen Bio and Memories Speaker: Nikolaos Limnios,****Title: Stochastic approximation of gamma processes in random media and their applications in****degradation** |
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| **12:00- 12:30 Coffee Break** |
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| **12:30-14.00****SCS1****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **SPECIAL SESSION:** Special session of ECANET Institute of HMU Research Centre on “Economic Analysis, Entrepreneurship and Tourism”**Chair: Christos Floros** | **Special Session: International Comparison and Method Innovation: Differentials of Male and Female Fertility Rates and Their Significance Chair: Hong Mi** |
| **Efthalia Tabouratzi and Konstantinos Vasilakakis**Investigating the Importance of Food Waste Management in Costing in the Tourism Sector in Greece | **Hong Mi, Zhidong Liu, Wangyizhuang Lv** Systematic Identification and Forecast Assessment of the Long-term Evolution Characteristics of China’s Negative Population Growth Based on the Two-sex Population Model (2024-2100) |
| **Archontoula Koskeridi, Vassilki Balla, and Dimitrios Vortelinos** | **Hong Mi** |

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| A Comparative Study of Trends and Dynamics of Urbanization Across Africa | International Comparison and Method Innovation: Differentials of Male and Female Fertility Rates and Their Significance |
| **Afroditi Rapti, Vassilki Balla, and Dimitrios Vortelinos**Combating Housing Exclusion in Europe: Critical Reflections | **Nan Li**Male Fertility Rates and their Implications |
| **Ourania Kitsou, George Mastorakis Emmanouil Perakakis Ioannis Kopanakis and****Athina Bourdena**Combining medical tourism with data analytics for sustainable solutions and economic development | **Guoyong Ma, Xiuting Cai, and Ruihuan Hou** Analysis of the Impact of Implicit Family Education Investment on Fertility Decisions— Predictions Based on the Two-Sex Population Model |
| **14:00-15:00 Lunch** |
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| **15:00-15:40**[**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) **(PS2) Plenary Session****Chair: Sally McClean****Speaker: N. Balakrishnan*****Distinguished University Professor, Department of Mathematics and Statistics McMaster University, Hamilton, Ontario, Canada***Title: **Flexible Modeling of LTRC Data with Covariates** |
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| **15:40 -16:00 Coffee Break** |
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| **16:00-18:00****SCS2****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **SPECIAL SESSION:** Special session of ECANET Institute of HMU Research Centre on “Economic Analysis, Entrepreneurship and Tourism”**Chair: Christos Floros** | **Markov and Semi-Markov Models****Chair: Valérie Girardin** |
| **Dimitrios I. Vortelinos, Yiannis Yiannoulis and Ioannis Passas**Going Concern Audit Opinion: The case of Athens Exchange | **Philippe Carette and Marie-Anne Guerry** Comparison of Approximate Markov Generators in a One-Jump Setting |
| **Argiro Moudatsou**Natural Resources and Economic Growth: Is there any Resource Curse? | **Jesús E. García and V.A. González-López** The Efficient Determination Criterion for Partition Markov Model Estimation |
| **M. Zouridaki, A. Apostolakis, M. Kourgiantakis**Sustainable Cultural Routes in Crete – A Stated Preferences Discrete Choice Experiment | **Marie-Anne Guerry**Embedding Conditions for Specific Subsets of Markov Transition Matrices |

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| **Ioannis Papadimitriou, George Mastorakis Emmanouil Perakakis Ioannis Kopanakis Athina Bourdena**Leveraging Generative Adversarial Networks (GANs) to Enhance Uncertainty Quantification in Agent-Based Models (ABMs) for Financial MarketSimulation | **Brecht Verbeken and Marie-Anne Guerry** Generalising Maintainability to State Re-union Maintainability for Discrete-time Homogeneous Semi-Markov Systems |
|  | **Valérie Girardin**Linear Inverse Modeling of Metabolic Systems: Deterministic Optimisation Versus Markov Chain Monte Carlo |
|  | **Mariya Svishchuk**SIR Endemic Model in Semi-Markov Media: Averaging and Diffusion Approximation |
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| **18:00-19:00****SCS3****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Economy Chair: Y. Dimotikalis** | **Extreme Value Estimates** |
| **George S. Atsalakis and Ioanna Atsalaki**Forecasting the Next Mega Cycle of the Economy | **D. Prata Gomes and M. Manuela Neves**Resampling Methods in Extreme Value Estimation Procedures |
| **Nikos Kounoupas, Yiannis Dimotikalis and Christos H. Skiadas**Examination of European Union Digital Economy and Society Index Dimensions Using PCA and ClusterAnalysis | **Ayana Mateus and Frederico Caeiro** Estimators for Extreme Value Index: Advancements in Tail Inference and Return Period Estimation |
| **Eleni Serafetinidou and Christina Parpoula** The Impact of Big Five Personality Traits on Physical Health of Older Europeans: An Analysis based on SHARE Data | **Frederico Caeiro and Ayana Mateus**Finite Sample Properties of the BLUE of the 3 parameter Log-Logistic Distribution |
| **Spyridon A. Kontos and Thomas Psathas** Periodic Time Series Forecasting with ANFIS – An application on an ECG Signal |  |
| **End of the 1st Day** |

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| 80_ASMDAInternational  ***Stochastic Modeling Techniques and Data Analysis International Conference******Chania, Crete, Greece, 4 – 7 June, 2024 Hybrid*** |
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| **Wednesday, 5.6.2024** |
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| **TIME ZONE:** [EEST — Eastern European Summer Time](https://www.timeanddate.com/time/zones/eest) |
| **Venue: Cultural Centre Of Chania****Andrea Papandreou 74** |
| **8:30 – 9:00****Registration** |
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| **09:00-11:00****SCS4****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Probability** | **Demography Chair: K .Zafeiris** |
| **M. Ivette Gomes, Frederico Caeiro, and Lígia Henriques-Rodrigues**Further Results on the Location Invariant Estimation of the Weibull Tail Coefficient | **Carl Lee**An Overview of Techniques for Modeling Imbalanced Data with Applications to Asthma Data |
| **Jean-Paul Murara**An Optimal Investment Control Problem with Stochastic Volatility | **Tomáš Fiala, Jitka Langhamrová, and Jana Vrabcová**Implications of the Proposal to raise the Retirement Age in the Czech Republic since 2030 |
| **Marta Ferreira**Assessing Αsymptotic Τail Ιndependence: Α Simulation Study | **Jana Vrabcová and Markéta Majerová** Seasonal Mortality Patterns in the Czech Republic: The Influence of Climate, Epidemics, and Other Factors |
| **David Suda, Monique Borg Inguanez, and Matthew Camilleri**A Bayesian Asymmetric Approach to Modelling Volatility on Portfolios with Many Assets | **Konstantinos N. Zafeiris, Georgia Verropoulou and Cleon Tsimbos** Analysing Modern Fertility Trends in Greece |
| **Adina Oprisan**Functional Limit Theorems for a Time-changed Brownian Motion | **Cleon Tsimbos, Georgia Verropoulou, Konstantinos Zafeiris, and Yannis Psycharis**The Impact of the COVID-19 Pandemic on the Life Expectancy of the Population of Greece at National and Regional Level: 2020-2022 |

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| **Jim Freeman and Haoyu Miao** Blackjack and the Kelly bet: A Simulation Assessment of Selected Playing Strategies | **Konstantinos N. Zafeiris and Christos Skiadas**Three Years of Mortality and Health Experience under the Influence of the COVID-19 Pandemic |
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| **11:00-11:40**[**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) **(PS3) Plenary Session****Chair: Claude Lefèvre****Speaker: Robert Elliott**, John Van DerhoekFaculty Professor and Emeritus Professor, University of Calgary Adjunct Professor, University of South Australia**Mixtures of Multivariate Gaussians** |
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| **11:40- 12:00 Coffee Break** |
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| **12:00-14:15****SCS5****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Special Session:**Economy and Health Management**Chair: George Matalliotakis** | **Sociology, Risk, Ruin** |
| **Emmanuel Karapidakis, Yiannis Katsigiannis, Konstantinos Blazakis, Marios Nikologiannis, George Matalliotakis, Georgios Stavrakakis, *and Nikos Venianakis***Assessing the Impact of Renewable Energy Sources on Energy Economics: A Non-Linear Regression Analysis of Hellenic Energy Exchange Market Clearing Prices | **Georgios C. Zachos**A Note on Spectral Risk Measures when Systemic Risk is Present |
| **Emmanuel Karapidakis, Yiannis Katsigiannis, Konstantinos Blazakis, Marios Nikologiannis, George Matalliotakis, Georgios Stavrakakis, and Nikos Venianakis**Enhancing Energy Market Stability: Comparative Analysis of Forecasting Techniques for Market Clearing Prices in the Day-Ahead Market | **Katalin Varga and Tibor Szendrei** Non-stationary Financial Risk Factors and Macroeconomic Vulnerability for the UnitedKingdom |
| **Margarita Ioannidou and George Matalliotakis**Financial Analysis of a Public Hospital: The case of the General Hospital of Corfu | **Sari Cahyaningtias, Carl Gardner, Petar Jevtic, and Traian A Pirvu**Minimizing the Ruin Probability of an Insurance Company |
| **Konstantinos Vlachodimitropoulos and George Matalliotakis** | **Meglena Lazarova and Michail Todorov** |

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| Mobbing and Leadership in Healthcare Professionals in the Prefecture of Messinia | Double Laplace Transform applied to the PDE of the Non- ruin Probability in Case of a Bivariate Polya-Aeppli Counting Process and Exponentially distributed Claims |
| **Anna Kolosidou and Georgios Matalliotakis**Saving Resources due to the Operation of the Centralized Cytostatic Preparation Unit (CCPU) in Greek Hospitals: The Case of the CCPU in the Hospital Evangelismos | **Eva Stouraiti and Maria Symeonaki** Social Dimensions of Food Insecurity in Greece |
|  | **Shafiqah Alawadhi**Contribution Heuristic Αpproaches for Small Geographical Area: An Empirical Political Study |
|  | **Elena Říhová and Kornélia Svačinová** Health Status and Suicide Rate in the Europe: 2019-2022 |
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| **14:00-15:00 LUNCH** |
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| **15:00 – 21:00****Guided tour to the****Chania Archeological Museum and the Venizelos Foundation ending with****a Greek “Meze” in a local Taverna** |
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| **End of the 2nd Day** |

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| 80_ASMDAInternational  ***Stochastic Modeling Techniques and Data Analysis International Conference******Chania, Crete, Greece, 4 – 7 June, 2024 Hybrid*** |
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| **Thursday, 6.6.2023** |
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| **TIME ZONE:** [EEST — Eastern European Summer Time](https://www.timeanddate.com/time/zones/eest) |
| **Venue: Cultural Centre Of Chania****Andrea Papandreou 74** |
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| **8:30 – 9:00****Registration** |
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| **9:00-10:30****SCS6****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Statistic I** | **Special Session: Statistical Methods of Education****Chairs: A. Marshall and M. Zenga** |
| **Marta Zalewska and Wojciech Niemiro**New Methods of Constructing Confidence Intervals of a Sensitive Proportion in Survey Statistics | **Paolo Mariani and Andrea Marletta** Labour Market in Private Education Sector: Professional Skills and New Trends |
| **Jean-Paul Murara and David Paul Suda** Penalised Regression Analysis in Portfolio Management | **Erica Grammatica and Francesca Greselin** What can we learn from Malta? An Exploration of Gender Disparities in Education, Work and Money in Europe |
| **Mark Anthony Caruana, Lorin Grima, and David Suda**Tree-Based Learners for Motor Insurance Fraud Detection | **Michele La Rocca, Marcella Niglio, and Marialuisa Restaino**An analysis of Gender Gap in Students’ Performance: Preconception or Reality? |
| **Morgan C. Wang**Tree-Based Learners for Motor Insurance Fraud Detection | **Adele H. Marshall and Mariangela Zenga** Gender and ICT Inequalities among Adolescents: A comparative analysis in PISA |
| **Elena Almaraz Luengo**Linear and Nonlinear Dependencies in Statistical Tests Suites | **Franca Crippa, Giulia Gotti, Raffaella Calati, Mariangela Zenga, Kainaat Danyal and Naved Iqbal**Crosscultural Issues in Psychological Assessment. A Multistrategy Approach |
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| **10:30- 11:00 Coffee Break** |

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| **11:00-12:30****SCS7****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Special Session I****Monitoring Structured and Unstructured Data Chairs: Polychronis Economou and Sotirios Bersimis** | **Special Session: Statistical Methods of Education****Chairs: A. Marshall and M. Zenga** |
| **G. Papageorgiou, E. Skamnia, P. Economou and****S. Bersimis**Visualizing Temporal Dynamics in Time Series Topics: A Convex Hull Approach | **Adele H Marshall and Aleksandar Novakovic** Modelling COVID-19 Disease Dynamics and Impact of the Non-pharmaceutical interventions on the Northern Ireland Population Using the CP-ABM Approach |
| **G. Arvanitopoulos, S. Bersimis and P. Economou**Sequential Text Analytics: Enhancing Understanding and Insights from Unstructured Text Utilizing Large Language Models | **Aglaia Kalamatianou and Fotios S. Milienos** Modelling the Share of Women in University Education |
| **E. Skamnia, P.E. Maravelakis, P. Economou and****S. Bersimis**Monitoring Multivariate Poisson Processes | **Fotios S. Milienos and Aglaia Kalamatianou**Sigmoid Growth Models: A Novel Interpretation |
| **A. Karaminas, P. Economou and S. Bersimis**Methods for Monitoring Non-Shows in Healthcare | **Adele H. Marshall and Mariangela Zenga** What is the Current State of Mathematics Performance among Adolescents in the post- COVID-19 Era? |
| **S. Bersimis, P. Economou****A New Method for Monitoring Multivariate Data Streams** |  |
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| **12:30-14:00****SCS8****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Special Session II****Machine Learning Applications Chairs: Polychronis Economou and Sotirios Bersimis** | **Special Session****Stochastic Models for Healthcare Chairs: Sally McClean and Adele Marshall** |
| **C. Spyropoulos, P. Economou and S. Bersimis**Machine Learning Applications in Sports Data | **Polychronis Chatzoglou, Lalit Garg, and Justin Dauwels**A Novel Tensor Factorization-based Missing Data Analysis Technique |
| **P. Biris, K. Skamnia, K. Skarlatos, G. Papageorgiou, P. Economou and S. Bersimis** Ship Engine Model Selection by Applying MachineLearning Classification Techniques | **Sally McClean and Lingkai Yang**Semi-Markov Models for Process Mining in Smart Homes |

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| **M. Makris, A. Fousteris and S. Bersimis**Ship Engine Model Selection by Applying Machine Learning Classification Techniques | **Chiranjeevi Kerri, Lalit Garg, Bhushan Pawar, Vijay Prakash, Neville Calleja, Charles Galdies, and Sandra Buttigieg**Characterizing Heat Waves' Impact using Coxian Phase-type Survival Trees |
| **B. Michelakis and S. Bersimis**Methods Comparisons for Fraud Detection in Auto Insurance | **Hannah J Mitchell, Adele H. Marshall and Mariangela Zenga**Analysing the Lombardy Region Wards for Older Individuals |
| **F. Bersimis, C. Kalpidis, and P. Tsartas** Exploring the Degree of Implementation of Innovation in Tourism Industry. The case of Athens’ Restaurants |  |
| **14:00-15:00 Lunch** |
| **15:00-17:00****SCS9****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Special Session III****Business Analytics in Practice Chairs: Polychronis Economou and Sotirios Bersimis** | **Models-Demography** |
| **S. Karatzas, G. Papageorgiou, V. Lazari, A. Fousteris, P. Economou, Α. Chassiakos**A Text Analytic Framework for Gaining Insights for Optimizing Indoor Building Environmental Performance | **Emmanouil Apergis, Ben Caswell, and Andreas Markoulakis**A Neoclassical Growth Model for Quantum Computing, Growth, and Innovation |
| **M. Karvounidi, M. Maniati, A. Fousteris, C. Boudoulis, and S. Bersimis**An Empirical Study on the Use of Data Analytics and AI by the Greek Companies | **Cheng Goh and James Freeman** Queuing Models in which Service Patterns are conditioned by Arrival Outcomes – A PracticalApplication |
| **E. Nika, A. Sachlas and D. Georgakellos**A Data-Driven Approach for Health Budgeting | **Norio Watanabe and Kosei Shigeta**Fuzzy Trend Model with Intervals of Varying Length |
| **A. Alexandropoulou, M.Karvounidi, A.Fousteris, E.Didaskalou, D.Georgakellos**Using BA Tools to Measure the EnvironmentalPerformance of Ports: A Review from Major Ports around the World | **Mamta Chauhan, Deepika Varshney, and Anjum Shaheen**Internal Migration and Urbanization: Shaping Faridabad City |
| **K. Agoraki, A. Fousteris, A. Alexandropoulou and****D. Georgakellos**Reinvent Knowledge Management: Artificial Intelligence and Technological Innovation in the Digital Economy | **Glykeria Stamatopoulou, Eva Tsouparopoulou and Maria Symeonaki**Modeling School-to-Work Transitions in Greece and the Impact of Dual Crises (Economic and COVID-19) Using EU-LFS Data (2006-2022) |
|  | **Xiaogang Su**Conservative Decisions with Optimal Cutoff Interval in Prostate Cancer Diagnosis |

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| **20:00 – 24:00****Farewell Dinner Cretan food, music and dances** |
| **End of the 3rd Day** |



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|  ***Stochastic Modeling Techniques and Data Analysis International Conference******Chania, Crete, Greece, 4 – 7 June, 2024 Hybrid*** |
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| **Friday, 7.6.2023** |
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| **TIME ZONE:** [EEST — Eastern European Summer Time](https://www.timeanddate.com/time/zones/eest) |
| **Venue: Cultural Centre Of Chania****Andrea Papandreou 74** |
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| **8:30 – 9:00****Registration** |
| **09:00-10:30****SCS10****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Data Analysis I** | **Demography I** |
| **Federica Nicolussi, Roberto Ascari, and Agnese Maria Di Brisco**Graphical Models for Compositional Data | **Grażyna Trzpiot**Quantitative Modelling of the Demographic Aging Process |
| **Tamar Gadrich**Implementation of Τwo-way Factorial Analysis for Categorical Characteristics of Material or Object | **Gustav Feichtinger**Further Demographic Shrinking or Fluctuating Age Structures |
| **Rafik Abdesselam**Topological Analysis of Multiple Tables | **Larry Tang**Harnesses Data Science Methods in Demographics Research |
| **Aggeliki Kazani, Eva Tsouparopoulou, and Maria Symeonaki**Reconsidering Thurstone Scales: A Novel Approach to Attitude Measurement | **Eva Tsouparopoulou and Maria Symeonaki**Anonymization with no Gender Information Loss: Investigating the Demographic “Profile” of Diligent Greek Students belonging to Vulnerable Social Groups of the 2019-20 Academic Year |
| **Anastasia Charalampi and Catherine Michalopoulou**Modeling Functioning as a Determinant of Wellbeing: A Mediation Analysis | **Eliud Silva and José Manuel Aburto** Life Expectancy Recovery after Catastrophic Events |
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| **10:30 – 11:00 Coffee Break** |
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| **11:00-12:30** |

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| **SCS11****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Data Analysis II** | **Demography II** |
| **George Filandrianos, Aggeliki Kazani, Dimitrios Parsanoglou, Maria Symeonaki, and Giorgos Stamou**Introducing an Ontology of Adolescents’ Digital Leisure | **Tamara P. Sabgayda, A. V. Zubko, and****V. G. Semyonova**Mortality among Young People during the Pandemic in Moscow, other Russian Cities and Rural Areas |
| **Siham Bey, Latifa Adjoudj, Zohra Guessoum, and Elias Ould Saiid**Asymmetric Kernel Estimation of the Regression Function | **A.V. Zubko, T.P. Sabgaida, and A.N.Edeleva**Age Peculiarities of the Russian Population Excess Mortality during a Pandemic |
| **Aggeliki Yfanti and Catherine Michalopoulou** Investigating the Mediating Role of Religious Services Attendance in the Relationship between Religion Variables and Social Class Perceptions | **Neir Antunes Paes**Methodological Procedures for Assessing the Quality of Death Certificates for Unknown Causes |
| **Michele La Rocca, Marcella Niglio, Marialuisa Restaino, and Maria Prosperina Vitale** Educational Data Mining for Predicting Students’ Success | **Victoria G. Semyonova, A.E. Ivanova, T.****P. Sabgaida, A.V. Zubko, and G.N. Evdokushkina**Suicide Mortality in Russia and Specific Features of its Registration |
| **Jeremy Farrugia**Solving the Inverse Shortest Path Problem for Earthquakes' Motion | **Barun Kumar Mukhopadhyay**A Study of Mobility or Trend of Educational Statuses of Females: A Cohort Analysis from a Large Scale Survey Data in Some Part of India |
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| **12:30-14:00****SCS12****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Models I** | **Statistic - Demography** |
| **Stelios Zimeras and Dionysios Vasileiou**Spreading Diseases Models under Vaccination | **Larry Tang**Homogeneity Test on Error Rates from Ordinal Scores and Application to Forensic Science |
| **Liberato Camilleri and David Kemboi** Modeling Cargo Clearance Duration at Kenyan Borders using Multilevel Survival Models | **Marcela Meneses-Guzmán, Francisco Rodríguez-Méndez, Carlos Boschini- Castillo, Katheryn Solano-Marín, and Roberto Aguilar-Quesada**Statistical Control of the Distribution of Cells detected in Images of Aluminum Foam Samples |
| **Justyna Majewska** | **Wojciech Niemiro and Lukasz Rajkowski**Composable Random Elements and Conditional Independences |

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| Multi-population Mortality Models: Comparison of Methods for Identifying Common Trends in Populations Mortality Changes |  |
| **Andreas Groll and Gunther Schauberger**A Statistical Learning Model for the Prediction of the EURO 2024 Tournament | **Fernanda Figueiredo, Adelaide Figueiredo, and M. Ivette Gomes** Control Charts for Data Sets with anExcessive Number of Zeros |
| **Volodymyr Anisimov**Modelling/Forecasting Patient Recruitment in Multicentre Trials using Time-dependent Models | **Mireille Gettler Summa and Raphaël Prenovec**Textual Data Analysis Applied On A New Context: Deaf People French Literacy |
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| **14:00- 15:00 LUNCH** |
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| **15:00-16:30****SCS13****Special and Contributed Sessions** |
| [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) | [**Room 2**](https://isast.webex.com/isast/j.php?MTID=mef6f2068b66445ac9e9298333df4ec22) |
| **Models II** | **Distributions** |
| **Mara Kalicanin Dimitrov, Eduardo Alberto Alcantara Martinez, Achref Bachouch, and Ying Ni**Empirical Analysis of Option Pricing Models using Additive Processes and Heston-type Stochastic Volatilities | **C. Karagoz and Moustapha Aminou****Tukur**EWMA Control Charts for Skewed Distributions |
| **Clarinda Nhangumbe, Ebrahim Fredericks, and Betuel Canhanga**A Splitting Finite Difference Method for Weather Derivatives Model | **Andrei Yu. Zaitsev** Estimates of Stability with Respect to the Number of Summands for Distribution ofSuccessive Sums of Independent Identically Distributed Vectors |
| **Istvan Fazekas and Laszlo Forian**A family of random graph evolution models with moderate density | **Angel Felipe, María Jaenada, Pedro Miranda, and Leandro Pardo**On a New Family of Robust Estimators for the Parameters of the Log-logistic Distribution |
| **Andreas C. Georgiou, Eleni-Maria Vretta, Konstantinos Kaparis, Kyriakos Bitsis, George****Paltayian, and Fenia Mavrodi**A bi-level DEA Model for Targeting Setting in a Stochastic Environment with Potential Applications in Banking and Healthcare | **Ingrida Vaičiulytė**Algorithms for Estimation of Multivariate Alpha-stable Distribution |
| **16:30- 17:00 Coffee Break** |

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| --- |
| **17:00-17:40****Plenary Session** [**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8)(**PS10)****Chair: Christos Floros Speaker: Claude Lefèvre**Abel-Gontcharoff Polynomials, Parking Trajectories and Ruin Probabilities |
|  |
| **17:40-18:00**[**Room 1**](https://isast.webex.com/isast/j.php?MTID=ma708cbad46c076cccbbf39fce481faa8) **Closing Ceremony** |
|  |
| **End of the Conference** |

**ROOM 1**

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