

Thursday (October 13th)

08:00 – 11:00| Course

Room A	Chair: Fernanda Figueiredo
Professor Marien Graham (University of Pretoria, South Africa)	Statistical Quality Control

11:00 – 11:15| Social Break (**Room C**)11:15 – 11:30| Open Ceremony (**Room C**)

11:30 – 12:30| Plenary Session

Room C	Chair: Milan Stehlík
M.^a Ivette Gomes (CEAUL and DEIO, Faculty of Science, University of Lisbon, Portugal)	Further Tales of Heavy Tails and Generalized Means

12:30 – 13:00| Lunch Time

13:00 - 16:00| Course

Room B	Chair: Luís M. Grilo
Professor Padhu Seshaiyer and Mr. Alonso Gabriel Ogueda (George Mason University, Fairfax, USA)	Neural Computing

16:00 - 16:30| Social Break (**Room C**)

16:30 - 18:30| Parallel Sessions

Room C	Statistics and Modelling (Chair: Milan Stehlík)
Jozef Kiselak	On particle-size distribution of three-dimensional convex similar bodies
Mukhtar Ahmad Khanday	Modeling human physiology with special reference to local hyperthermic treatment of solid tumors
Arif Bagwan	Applications of fixed point theorems in fractional calculus
Milan Stehlík	Statistical and learning functions
Zdeněk Fabián	Parametric estimation based on scalar-valued score functions

Room D	Statistical Methods and Applications (Chair: Fernanda Figueiredo)
Lígia Henriques-Rodrigues	Lehmer's mean-of-order-p in the estimation of the Weibull tail coefficient
Adelaide Figueiredo	Analysing the indicators of Europe 2020 agenda using the STATIS methodology
Frederico Caeiro	A Comparison of several generalized and extended Hill estimators
Fernanda Figueiredo	Digital technologies use and training: a multivariate data analysis
Note: this session will start a little later at 17:30	

Room E	Contributions of Statistics for professional and personal decision making (Chair: Carla Santos & Cristina Dias)
Carla Santos	On estimation in an extended mixed model with balanced design
Cristina Dias	A new approach for analyzing multi-environment trials
Ana Cantarinha	Multivariate collective risk models and a special case
Ana Dias	Characterization of the dissertations of a master's degree in workplace safety and hygiene

Friday (October 14th)

08:00 – 11:00| Course

Room A	Chair: Fernanda Figueiredo
Professor Marien Graham (University of Pretoria, South Africa)	Statistical Quality Control

11:00 – 11:30| Social Break (**Room C**)

11:30 – 12:30| Plenary Session

Room C	Chair: Fernando M. Carapau
Ana Leonor Silvestre (IST Técnico Lisboa, University of Lisbon)	The method of fundamental solutions applied to incompressible viscous flows

12:30 – 13:00| Lunch Time

13:00 - 15:00| Parallel Sessions

Room C	Computational Data Analysis and Numerical Methods for Predicting the Dynamics of Infectious Diseases (Chairs: Viswanathan Arunachalam and Padmanabhan Seshaiyer)
Alonso Ogueda & Erika Martinez Salinas	A review and application of disease informed neural network
Sohini Banerjee & Long Nguyen	Using physics-informed neural networks to model and simulate the dynamics of infectious diseases in enclosed environments
Alvan Caleb Arulandu	Physics informed neural networks for informed vaccine distribution in heterogeneously mixed populations
Viswanathan Arunachalam	A stochastic model for epidemics with a diagnostic test for the spread of the SARS-Cov-2 virus: A case study for the Nariñense region in Colombia

Room D	Statistical Modeling and Applications (Chair: José A. Pereira)
Patrícia Antunes	Estimation in gamma distributed bi-additive models
Kwaku Opoku-Ameyaw	A novel test for grouping levels of a factor: An application to cocoa breeding experiments in acidic soils
José António Pereira	Estimation of the best interval between radiography in early bone loss detection using logistic regression classifiers

15:00 – 15:30| Social Break (**Room C**)

15:30 – 16:30| Plenary Session

Room C	Chair: Luís M. Grilo
Carlos A. Coelho (NOVA University of Lisbon)	A Likelihood Ratio Test for one-way MANOVA which works for both the low and high-dimensional settings

16:30 - 18:30 | Parallel Sessions

Room C	Mathematical models (Chair: M.^a Manuela Fernandes)
Sandra Vaz	Local analysis of Lotka-Volterra type model
Rafael Henriques	Mathematical model to reconstruct the mechanical properties of an elastic medium
Afonso Costa	Wave propagation in viscoelastic materials: analytical and numerical study
Milene Santos	Modelling light propagation in the cornea: treatment of curved boundary domains

Room D	Threshold Behavior in Epidemiological and Health Sciences (Chair: Swati DebRoy)
Swati DebRoy	Identifying the mode of action of drug from viral load data
Omar Saucedo	Incorporating human mobility data into epidemiological models
Isaac Fung	Is the epidemic growing or declining? Applying the instantaneous reproduction number method to COVID-19 data: case studies in the United States and Canada
Anuj Mubayi	Multidimensional evidence generation for health technology assessment

Saturday (October 15th)

08:00 - 10:00 | Parallel Sessions

Room C	Statistical Modeling and Forecasting (Chair: A. Manuela Gonçalves)
F. Catarina Pereira	Simulation study of time series with outliers in the context of state space models
M.^a Rosário Ramos	Projections of amputations in diabetics in Portugal with count regression model
A. Manuela Gonçalves	Short-term forecast by state-space model approach: the case study of maximum temperature

Room D	Statistical and computational methods in applications (Chair: Manuela Neves)
Nelson Jamba	Approximation methods for the likelihood function in parameter estimation for SDE mixed models
Luís M. Grilo	Optimism and stress as predictors of burnout in college students: PLSc-SEM approach
Manuela Neves	Revisiting computational procedures in extreme value parameter estimation

10:00 – 10:30 | Social Break (**Room C**)

10:30 – 11:15 | Poster Session

Room C	Posters (Chair: M.^a Manuela Fernandes)
Inês Jorge Sequeira	An application of logistic regression model to the study of constitutional imbalances in human chromosomal fragile sites
Miguel Lobo	Retail store object detection using Yolo
João M. Alves	Big data analytics in water consumption
Susana Faria	Fitting mixtures of linear mixed models: a case study
Susana Faria	Mixtures of linear mixed models: variable selection using CEM algorithm
Marta Ferreira	Extremal Index: estimation and resampling
Jaime Jerónimo	Survival analysis of women diagnosed with breast cancer in Angola

11:15 – 11:30 | Social Break (**Room C**)

11:30 – 12:30 | Plenary Session

Room C	Chair: Ana Nata
José A. Ferreira (University of Coimbra)	Exogenous stimuli responsive drug delivery systems: mathematical modeling and numerical simulation

12:30 – 13:00 | Lunch Time

13:00 - 16:00 | Course

Room B	Chair: Luís M. Grilo
Professor Padhu Seshaiyer and Mr. Alonso Gabriel Ogueda (George Mason University, Fairfax, USA)	Neural Computing

16:00 - 16:30 | Closing Ceremony