

		Tempo de Diana Room
09:00–10:00	Maurizio Sanarico Everybody wants (think?) to play stats, will statistics play a key role in an everything-is-AI world? Chair: Russell Alpizar-Jara	
10:00–10:20	Constantino Caetano Mathematical modelling of the impact of non-pharmacological and vaccination strategies to control the COVID-19 epidemic in Portugal	Conference Room A
10:20–10:40	Marcelo Mrtvi Estimation of the effective reproduction number for the COVID-19 epidemic in Switzerland	Conference Room B
10:40–11:00	Jorge Cabral COVID-19 lockdown effect in COPD: a comparison of fixed-effects selection methods	Time Series Chair: Paulo M. M. Rodrigues
11:00–11:20	José Dias Clustering of time series of COVID data	Alberto Silva Time series periodicity detection using area biplots
11:20–11:30	Break	Arminda Manuela Gonçalves Daily temperature time series forecasting in the Optimal Challenges in Irrigation (TO CHAIR): a comparative...
11:30–11:50	Statistical Modeling of Black-Swan Events Chair: Soraia Pereira	Diogo Sousa Zero-distorted generalized geometric distribution with application to time series of counts
11:50–12:10	Miguel de Carvalho An extreme value Bayesian lasso for the conditional left and right tails	Margarida Cardoso The performance of a combined distance between time series
12:10–12:30	Alina Kumukova Regression-type analysis for block maxima on block maxima	
12:30–12:50	Jessica Lomba Mixed moment estimator for inference on space-time extremes	Ángel López-Oriona Quantile-based fuzzy C-means clustering of multivariate time series: Robust techniques
12:50–14:00	Maria Ivette Gomes Estimation of the Weibull tail coefficient through the power mean-of-order- p generalized mean	Bárbara Santos A supervised clustering algorithm for attributed networks
14:00–15:00	Lunch & Social	João Malato Impact of misclassification in association analyses of complex illnesses: the case of ME/CFS
15:00–15:20	Poster Session (details on last page)	Ana Januário A classification model for Mertolenga cattle breed
15:20–15:40	IS Official Statistics—Statistics Portugal (Instituto Nacional de Estatística) Organizer / Chair: Pedro Campos	Applied Bayesian Statistics Chair: Rui Paulo
15:40–16:00	Pedro Campos Alguns contributos do INE no ensino e investigação em estatísticas oficiais	Emmanuel Bernier Nonparametric Bayesian learning of GYMs: What hides behind the shape of a yield curve?
16:00–16:20	Francisco Lima Consumption decisions and the COVID-19 pandemic: evidence from administrative data	Rui Martins Modelling the population dynamics of the Blackspot Seabream with a Bayesian state-space model
16:20–16:30	Francisco Vala Mobilidade da população ao nível regional no contexto da pandemia COVID-19...	Rui Paulo Variable selection for black-box functions
16:30–16:50	Susana Clemente Infecundidade permanente e voluntária: as pessoas sem filhos e sem intenção de os vir a ter	Carlos Daniel Paulino Enfoque decisional num quadro bayesiano paramétrico para verificar conformidade de água de lastro de navios com normas prescritas
16:50–17:10	IS Biometry (SPE Section & SGAEPIO) Organizer / Chair: Inês Sousa	Climate Change Statistics Chair: Isabel Pereira
17:10–17:30	Maria Jácome Nonparametric inference for mixture cure model when the cure information is partially available	Pamela Chiroque-Solano Modeling of compositional data: a multilevel approach to benthic cover Abrolhos bank
17:30–17:50	Ana López-Cheda A nonparametric estimation method based on the EM algorithm for the latency	Fernanda Pereira Calibration of daily maximum temperature: A Comparative Study using regression and state space models
17:50–18:10	Ricardo São João Observational and comparative study between automatic and manual analysis of sleep studies	Marco Costa A calibration approach to update short-term forecasts of daily maximum temperature performed with distribution-free estimation
	André Fonseca Identification of immune responses predictive of clinical protection against Malaria	Magda Monteiro Non-parametric change point detection applied to climate change in Europe
	Rosemeire Fiaccone & Dandara Ramos Propensity scores approaches: challenges in observational studies	



FENStatS accreditation of statisticians: Why and how?		Templo de Diana Room
09:30–10:00	<i>Magnus Pettersson</i> Organizer: FENStatS, Chair: Maria Eduarda Silva	
Conference Room A	Conference Room B	
Statistical Analysis of Animal Density and Abundance—I	Joint session SPE–CLAD (Portuguese Association for Classification and Data Analysis)	
Chair: Tiago Marques	Chairs / Organizers: Clara Cordeiro & Filomena Teodoro	
<i>André Matos</i> 10:00–10:20 A two-array system for localization of fish using passive acoustic data	<i>Cristina Andrade</i> Climate change projections for heating and cooling degree-days for Portugal	
<i>Ana Galantinho</i> 10:20–10:40 Road effects on demographic traits of small mammal populations: a capture-recapture study	<i>Ana Borges</i> Uncovering abnormal water consumption patterns for sustainability's sake	
<i>Jaime Mosquera</i> 10:40–11:00 Fitting flexible parametric detectability functions in distance sampling	<i>Marina Andrade</i> Brazilian electric power distributors: Excellence models	
11:00–11:20	<i>Alda Carvalho</i> Análise de dados SCADA de um parque eólico em terreno complexo	
11:20–11:30 Break		
Statistical Skills, Literacy, and Teaching	Mathematical Statistics and Learning	
Chair: Patricia de Zea Bermudez	Chair: Adriano Zambom	
<i>Nuno Sepúlveda</i> 11:30–11:50 How to increase the visibility of a statistician in the modern world of collaborative research?	<i>Adriano Zambom</i> Testing for additivity in nonparametric heteroscedastic regression models	
<i>M. Cristina Miranda</i> 11:50–12:10 Moodle tests: not so much of a fuss when you have R	<i>Jorge Santos</i> Aproximations to the binomial distribution, its bounds, relative and absolute precision	
<i>Helena Alvelos</i> 12:10–12:30 Teaching and learning basic statistics in undergraduate programs: an unexpected switch to online classes and assessment	<i>Eunice Carrasquinha</i> Estimation of differential entropy: a comparison study	
12:30–12:50	<i>Filipe Ramos</i> Explorando o poder da memória das redes neurais LSTM na modelação e previsão do PSI 20	
12:50–14:00 Lunch & Social		
Genevera Allen		Templo de Diana Room
14:00–15:00 Learning probabilistic graphical models from large and complex data		
Chair: Patricia Filipe		
Stochastic Differential Equations and Growth Models	Longitudinal Data and Joint Modeling	
Chair: Carlos Braumann	Chair: Vanda Inácio de Carvalho	
<i>Carlos Braumann</i> 15:00–15:20 Profit optimization for SDE cattle growth models using a general profit structure	<i>Frederico Moreira</i> Longitudinal analysis of viral shedding in astronauts before, during, and after a mission to the International Space Station	
<i>Gonçalo Jacinto</i> 15:20–15:40 Profit optimization with sensitivity analysis for cattle growth using Gompertz and Bertalanffy–Richards SDE models	<i>Inês Souza</i> Análise de dados longitudinais multivariados	
<i>Patricia Filipe</i> 15:40–16:00 Weighted maximum likelihood estimation for SDE individual growth models	<i>Pedro Afonso</i> A joint model for multiple longitudinal outcomes and terminal and recurrent events	
<i>Nelson Jamba</i> 16:00–16:20 Mixed models for individual growth in random environment through Laplace and delta method approximation ...	<i>Inês Fortes</i> Joint models for longitudinal and time-to-event data: comparing different computational approaches	
16:20–16:30 Break		
Statistics with Probability and Stochastic Processes	Statistics of the Nation—I	
Chair: Karla Ramírez	Chair: Francisco Lima	
<i>Gustavo Soutinho</i> 16:30–16:50 Parametric landmark estimation of the transition probabilities in survival data with multiple events	<i>Inês Oliveira</i> Em que se parecem e em que diferem entre si os municípios Portugueses	
<i>Júlio Pereira</i> 16:50–17:10 An auction where prices only decrease: a probability distribution for the number of bids	<i>Daniela Silva</i> Variação espaço-temporal da distribuição e abundância da sardinha ao largo da costa continental portuguesa: efeitos ambientais	
<i>Ivo Sousa-Ferreira</i> 17:10–17:30 The extended Chen–Poisson marginal rate model for recurrent gap time data	<i>Leonor Rego</i> Algumas determinantes para uma maior gravidade da sinistralidade rodoviária no distrito de Setúbal	
<i>Helena Ribeiro</i> 17:30–17:50 Sistemas M^X/M/c/n com bloqueio e abandono	<i>Ana Castanheira</i> Fatores de risco para a demora no diagnóstico da tuberculose em Portugal	

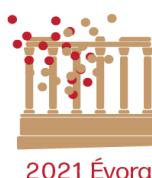


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09:00–10:00	António Pacheco Level crossing ordering of stochastic processes Chair: Dulce Gomes	Templo de Diana Room
10:00–10:20	Iúri Correia Estimating caribou abundance in West Greenland using distance sampling methods	Conference Room A
10:20–10:40	Tiago Marques Estimating sperm whales echolocation click production rates to inform passive acoustic density estimation	Conference Room B
10:40–11:00	João Ribeiro Estimating probability of detection of Blaineville's beakedwhales (<i>Mesoplodon densirostris</i>) groups using regression models	Risk and Tail Events
11:00–11:20	Russell Alpizar-Jara Distributional properties of the Lincoln-Petersen-like estimators under extreme lower recapture values	Chair: Jessica Lomba
11:20–11:30	Break	
11:30–11:50	Soraia Pereira Bayesian lasso tail index regression	Inference for Extreme Values
11:50–12:10	Paulo M. M. Rodrigues Tail index estimation in the presence of covariates	Robust Methods and Techniques
12:10–12:30	Junho Lee Bayesian semi-parametric inferences for covariate-adjusted extreme-value copula ...	Chair: Vanda Lourenço
12:30–12:50	Frederico Caeiro Adaptive estimation of the extreme value index with probability weighted moments	Conceição Amado Robust alternatives of the hurdle model with Poisson regression
13:00–14:00	Lunch & Social	Anabela Rocha A robust version of the FGLS estimator for panel data
14:00–14:20	IS RBRAS (Brazilian Region of the International Biometric Society) Organizer / Chair: P. C. Rodrigues	IS Banco de Portugal (BdP, Portuguese Central Bank): Contributions of BdP to Research
14:20–14:40	Paulo C. Rodrigues A complex trait with unstable QTLs can follow from component traits with stable QTLs...	Chair: Rita Sousa
14:40–15:00	Renato Assunção Detecting spatial clusters of disease infection risk using sparsely sampled social media mobility patterns	Rita Sousa Using BPLIM to access data for research purposes
15:00–15:20	Clarice Demétrio An extended random-effects approach to modeling repeated, overdispersed count data	Marta Veloso Portuguese central credit register
15:20–15:30	Gabriela Oliveira Regressão quantílica aplicada ao estudo de associação genômica de incidência da ferrugem em coffee canephora	Nuno Azevedo From BPStat to Stata
15:30–15:50	Paula Milheiro-Oliveira Modeling and forecasting wind energy production by stochastic differential equations	Nuno Silva Empirical applications on BdP data
15:50–16:10	Elsa Gonçalves Comparison of experimental designs for evaluation of intravarietal genetic variability and selection in ancient grapevine varieties	
16:10–16:30	Paula Simões Geostatistical sampling designs under preferential sampling for black scabbardsh	Statistics and Society
16:30–16:50	Luisa Novais O desempenho do algoritmo EM na estimativa de misturas de modelos lineares mistos para diferentes procedimentos de inicialização	Chair: Constantino Caetano
16:50–17:00	Break	Adela Iutis & Adelaide Freitas Association between weekly dengue cases and meteorological and geographical variables in the Dominican Republic
17:00–17:20	Caucus for Women in Statistics Organizer: Vanda Lourenço, Chair: Wendy Lou	João Albuquerque Behaviour of different strategies for cost-sensitive logistic regression applied to the classification of paediatric familial ...
17:20–17:40	Tomi Mori A perspective from the society and women in industry, government and academia, I	M. Helena Gonçalves Modelação longitudinal binária da desnutrição aguda e crónica em crianças na província do Bengo em Angola
17:40–18:00	Nairanjana Dasgupta A perspective from the society and women in industry, government and academia, II	Paulo Oliveira Pessoas com deficiências, raça, análise de correspondência, renda e COVID-19
18:00–18:20	Holly Shulman A perspective from the society and women in industry, government and academia, III	
	Cynthia Bland A perspective from the society and women in industry, government and academia, IV	Statistics in Biomechanics and Biology Chair: Pedro Oliveira
		Andy Lynch Improving estimation of the PCR duplicate rate in DNA sequencing experiments
		Victor Velasco-Pardo Statistical challenges in mutational signature analyses
		Nuno Ribeiro Análise multivariada para identificação da influência dos fatores antropométricos no dispêndio metabólico na marcha durante a ...



Saturday–October 16

+All times are WEST (UTC +1)

09:00–10:00	Anthony C. Davison How long could a human live? Chair: Lígia Henriques-Rodrigues	Templo de Diana Room
10:00–11:00	Awards Ceremony* Includes announcement of organizers of SPE 2023; ceremony of "Prémio Estatístico Júnior" includes talks from: *Inês Guimarães (<i>MathGurl</i>) *Rogério Martins Chair: Regina Bispo	Conference Room A
11:00–11:10	Break	
Conference Room A		
11:10–11:30	Modeling with Random Processes Chair: Filipe Marques <i>Andreia Monteiro</i> Intensity-dependent point processes	Conference Room B Dimension Reduction—Methods and Techniques Chair: Paula Brito <i>Rodrigo Serrão</i> Symbolic variance maximisation for interval principal component analysis
11:30–11:50	<i>Sandra Dias</i> Sobre o máximo de um processo max-INAR(1) bivariado	<i>Ana Subtil</i> Dimension reduction with histogram principal component analysis for the detection of internet attacks
11:50–12:10		<i>Clara Sampaio</i> Application of dimensionality reduction methods to high dimensional data as a tool for predicting the geographic origin of the...
12:10–12:20	Break	
12:20–12:40	Statistics of the Nation—II Chair: Lisete Sousa <i>Pedro Brandão</i> Using GAMs to understand a 30-year fish species Portuguese historical dataset from coastal transition ecosystems	Censored Data and Joint Modeling Chair: Nuno Sepúlveda <i>Rodney Sousa</i> Estimação de modelos de regressão linear multivariada para dados censurados
12:40–13:00	<i>Dora Carinhas</i> As marés ao serviço da variação do nível médio do mar	<i>Marcos Peres</i> Bivariate generalized Gompertz distribution in presence of mixture and non-mixture cure fraction models
13:00–13:20	<i>Filipa de Mello-Sampayo</i> Spatial temporal analysis of COVID-19 in elderly living in residential care home in Portugal	<i>Naiara dos Santos</i> Abordagem Bayesiana para modelo de fação de cura inflacionado de zeros aplicado a dados de tempo de vida
13:20–13:40	<i>Carolina Marques</i> Modelling COVID-19 positivity rate as function of wastewater viral load	<i>Sara Magalhães</i> Modelos conjuntos para dados longitudinais no cancro da mama e tempo até recidiva
13:40–14:00		<i>Talita de Moraes</i> Análise conjunta de contagens longitudinais de células CD4 e tempo de sobrevivência de longo prazo de pacientes com HIV/AIDS ...

* A part of the ceremony will entail congratulating pupils for their awards, and thus exceptionally this session will be in Portuguese.



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Posters

Poster #	Sococo Poster room	Title / Author(s)
20	1	<i>Unravel shopper behaviour: analysis of consumption associations in fuel stations and their convenience stores</i> André Pedrinho, José Miguel Espinosa, Regina Bispo
21	2	<i>Irradiación solar e áreas das regiões faculares</i> E. Gonçalves, N. Mendes Lopes, J.M. Fernandes
22	3	<i>Modelação de nutrientes e elementos de qualidade ecológica para a classificação do estado das massas de água superficiais (Albufeiras do Norte)</i> Irene Oliveira, Joaquim Jesus, Rui Cortes
28	4	<i>vsd -- Visualizing survival data</i> Pedro Daniel Camacho, Ana Maria Abreu
32	5	<i>A model to predict the compressive strength of binders' constructed using fly ash and glass waste</i> Elisete Correia, Nuno Cristelo, Adelaide Cerveira
38	6	<i>The chi-squared goodness of fit test revisited</i> Sandra Mendonça, Délia Gouveia-Reis
62	7	<i>Using SRSM for prediction and risk analysis: an application to censored/uncensored medical data</i> C. Leal, T.A. Oliveira, A. Oliveira
66	8	<i>Regressão Quantílica Lomax Exponencializada</i> Guilherme Da Silva Machado, Cleber Bisognin, Vanessa Siqueira Peres Da Silva
67	9	<i>Modelo Hierárquico Poisson-binomial na subnotificação de casos e óbitos por COVID-19 no Brasil</i> Janaíne Geralda Mesquita Martins, Guaraci Requena
75	10	<i>Modeling residential adoption of solar PV systems</i> Carolina Goldstein, José Miguel Espinosa, Regina Bispo
84	11	<i>Assessing comorbid chronic diseases as predictors of COVID-19 severity: a meta-analysis</i> Marco Encarnação, Isabel Natário, Regina Bispo
90	12	<i>Desempenho do algoritmo EM na estimativa dos parâmetros de misturas pseudo-convexas</i> Rui Santos, Miguel Felgueiras, João Paulo Martins
91	13	<i>Análise de sobrevida de pacientes com insuficiência cardíaca</i> Inês Carvalho, Margarida Oliveira, Luís Machado
97	14	<i>Comparação das abordagens semi-paramétricas à ANOVA com dois fatores na presença de heterocedastidade</i> Dulce G. Pereira, Anabela Afonso
100	15	<i>Análise conjunta do tempo de sobrevida global e do tempo livre de doença baseada em cópulas: uma aplicação ao cancro da mama</i> Beatriz Lourenço, Giovani L. Silva, António E. Pinto
105	17	<i>Uso de machine learning na classificação de notificações de dengue a partir de atributos clínicos de triagem</i> João Carlos Zayatz, Gislaine Camila Lapassini Leal, Paulo César Ossani, Greicy Cesar do Amaral
109	18	<i>COVID-19 em Portugal: uma análise de riscos competitivos</i> Margarida Ribeiro, Cristina Rocha, André Peralta-Santos
110	19	<i>Forecasting models for time-series: a comparative study between classical methodologies and Deep Learning</i> D.R. Lopes, F.R. Ramos, D.A. Mendes, A.R. Costa
113	20	<i>Can researchers ignore a complex sampling design on the estimation of Mokken scales?</i> Marcia Andrade
118	21	<i>COVID-19 Hospitalization in Portugal: Results from hospital discharge data</i> João F. Pereira, Constantino Caetano, Liliana Antunes, Maria Luísa Morgado, Paula Patrício, Baltazar Nunes
120	22	<i>Identificação de requisitos para o desenvolvimento de Exoesqueletos no âmbito da Infantaria</i> Joni Santos, Luís Quinto, Sérgio Gonçalves, Ivo Roupa, Miguel Silva, Paula Simões
136	24	<i>Hierarchical clustering algorithms in classification the spread of COVID-19 cases and deaths in European countries</i> Dulce Gomes, Thaís Zamboni Berra, Antônio Ramos, Ricardo Alexandre Arcêncio