

09:30–10:00	FENStatS accreditation of statisticians: Why and how?		<i>Templo de Diana Room</i>
	<i>M. Pettersson</i> Organizer: FENStatS, Chair: M. 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)	
10:00–10:20	<i>A. B. Matos</i> A two-array system for localization of fish using passive acoustic data	<i>C. Andrade</i> Climate change projections for heating and cooling degree-days for Portugal	
10:20–10:40	<i>A. Galantino</i> Road effects on demographic traits of small mammal populations: a capture-recapture study	<i>A. Borges</i> Uncovering abnormal water consumption patterns for sustainability's sake	
10:40–11:00	<i>J. Mosquera</i> Fitting flexible parametric detectability functions in distance sampling	<i>M. Andrade</i> Brazilian electric power distributors: Excellence models	
11:00–11:20		<i>A. 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	
11:30–11:50	<i>N. Sepúlveda</i> How to increase the visibility of a statistician in the modern world of collaborative research?	<i>A. Zambom</i> Testing for additivity in nonparametric heteroscedastic regression models	
11:50–12:10	<i>M. Cristina Miranda</i> Moodle tests: not so much of a fuss when you have R	<i>J. Santos</i> Aproximations to the binomial distribution, its bounds, relative and absolute precision	
12:10–12:30	<i>H. Alvelos</i> Teaching and learning basic statistics in undergraduate programs: an unexpected switch to online classes and assessment	<i>E. Carrasquinha</i> Estimation of differential entropy: a comparison study	
12:30–12:50		<i>F. Ramos</i> Explorando o poder da memória das redes neuronais LSTM na modelação e previsão do PSI 20	
12:50–14:00	Lunch & Social		
14:00–15:00	Genevera Allen		<i>Templo de Diana Room</i>
	Learning probabilistic graphical models from large and complex data		
	Chair: P. Filipe		
	Stochastic Differential Equations and Growth Models	Longitudinal Data and Joint Modeling	
15:00–15:20	<i>C. Braumann</i> Profit optimization for SDE cattle growth models using a general profit structure	<i>F. Moreira</i> Longitudinal analysis of viral shedding in astronauts before, during, and after a mission to the International Space Station	
15:20–15:40	<i>G. Jacinto</i> Profit optimization with sensitivity analysis for cattle growth using Gompertz and Bertalanffy–Richards SDE models	<i>I. Sousa</i> Análise de dados longitudinais multivariados	
15:40–16:00	<i>P. Filipe</i> Weighted maximum likelihood estimation for SDE individual growth models	<i>P. Afonso</i> A joint model for multiple longitudinal outcomes and terminal and recurrent events	
16:00–16:20	<i>N. Jamba</i> Mixed models for individual growth in random environment through Laplace and delta method approximation ...	<i>I. 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	
16:30–16:50	<i>G. Soutinho</i> Parametric landmark estimation of the transition probabilities in survival data with multiple events	<i>I. Oliveira</i> Em que se parecem e em que diferem entre si os municípios Portugueses	
16:50–17:10	<i>J. Pereira</i> An auction where prices only decrease: a probability distribution for the number of bids	<i>D. Silva</i> Variação espaço-temporal da distribuição e abundância da sardinha ao largo da costa continental portuguesa: efeitos ambientais	
17:10–17:30	<i>I. Sousa-Ferreira</i> The extended Chen-Poisson marginal rate model for recurrent gap time data	<i>L. Rego</i> Alguns determinantes para uma maior gravidade da sinistralidade rodoviária no distrito de Setúbal	
17:30–17:50	<i>H. Ribeiro</i> Sistemas $M^X/M/c/n$ com bloqueio e abandono	<i>A. Castanheira</i> Fatores de risco para a demora no diagnóstico da tuberculose em Portugal	



		Templo de Diana Room
09:00–10:00	António Pacheco TBA Chair: D. Gomes	
	Conference Room A Statistical Analysis of Animal Density and Abundance—II	Conference Room B Risk and Tail Events
10:00–10:20	<i>I. Correia</i> Estimating caribou abundance in West Greenland using distance sampling methods	<i>R. Alcoforado</i> Risk model with dependent frequency and severity, premium and ruin probability calculation
10:20–10:40	<i>T. Marques</i> Estimating sperm whales echolocation click production rates to inform passive acoustic density estimation	<i>P. Serrasqueiro</i> Contributions to the diagnosis of skewness and kurtosis
10:40–11:00	<i>J. Ribeiro</i> Estimating probability of detection of Blaineville's beakedwhales (<i>Mesoplodon densirostris</i>) groups using regression models	<i>D. Silva</i> The impact of wind speed on athletics triple-jump—an approach with the r largest order statistics
11:00–11:20	<i>R. Alpizar-Jara</i> Distributional properties of the Lincoln–Petersen-like estimators under extreme lower recapture values	<i>M. Miranda</i> A robust hurdle Poisson model in the estimation of the extremal index
11:20–11:30	Break	
	Inference for Extreme Values	Robust Methods and Techniques
11:30–11:50	<i>S. Pereira</i> Bayesian lasso tail index regression	<i>C. Amado</i> Robust alternatives of the hurdle model with Poisson regression
11:50–12:10	<i>P. M. M. Rodrigues</i> Tail index estimation in the presence of covariates	<i>A. Rocha</i> A robust version of the FGLS estimator for panel data
12:10–12:30	<i>J. Lee</i> Bayesian semi-parametric inferences for covariate-adjusted extreme-value copula ...	<i>A. Martins</i> Outlier detection in histogram-valued variables
12:30–12:50	<i>F. Caeiro</i> Adaptive estimation of the extreme value index with probability weighted moments	<i>R. Taban</i> RM-SMOTE: A new robust balancing method
13:00–14:00	Lunch & Social	
	IS RBRAS (Brazilian Region of the International Biometric Society)	IS Banco de Portugal (BdP, Portuguese Central Bank): Contributions of BdP to Research
14:00–14:20	<i>P. C. Rodrigues</i> A complex trait with unstable QTLs can follow from component traits with stable QTLs...	<i>R. Sousa</i> TBA
14:20–14:40	<i>R. Assunção</i> Detecting spatial clusters of disease infection risk using sparsely sampled social media mobility patterns	<i>M. Veloso</i> TBA
14:40–15:00	<i>C. Demétrio</i> An extended random-effects approach to modeling repeated, overdispersed count data	<i>N. Azevedo</i> TBA
15:00–15:20	<i>G. França</i> Regressão quantílica aplicada ao estudo de associação genómica de incidência da ferrugem em coffee canephora	<i>N. Silva</i> Empirical applications on BdP data
15:20–15:30	Break	
	Applied Statistics—Design, Sampling and Computing	Statistics and Society
15:30–15:50	<i>P. Milheiro-Oliveira</i> Modeling and forecasting wind energy production by stochastic differential equations	<i>A. Iutis & A. Freitas</i> Association between weekly dengue cases and meteorological and geographical variables in the Dominican Republic
15:50–16:10	<i>E. Gonçalves</i> Comparison of experimental designs for evaluation of intravarietal genetic variability and selection in ancient grapevine varieties	<i>J. Albuquerque</i> Behaviour of different strategies for cost-sensitive logistic regression applied to the classification of paediatric familial ...
16:10–16:30	<i>P. Simões</i> Geostatistical sampling designs under preferential sampling for black scabbardsh	<i>M. Gonçalves</i> Modelação longitudinal binária da desnutrição aguda e crónica em crianças na província do Bengo em Angola
16:30–16:50	<i>L. Novais</i> O desempenho do algoritmo EM na estimação de misturas de modelos lineares mistos para diferentes procedimentos de inicialização	<i>P. Oliveira</i> Pessoas com deficiências, raça, análise de correspondência, renda e COVID-19
16:50–17:00	Break	
	Caucus for Women in Statistics Organizer: V. Lourenço, Chair: W. Lou	Statistics in Biomechanics and Biology Chair: TBA
17:00–17:20	<i>T. Mari</i> A perspective from the society and women in industry, government and academia, I	<i>A. Lynch</i> Improving estimation of the PCR duplicate rate in DNA sequencing experiments
17:20–17:40	<i>N. Dasgupta</i> A perspective from the society and women in industry, government and academia, II	<i>V. Velasco-Pardo</i> Statistical challenges in mutational signature analyses
17:40–18:00	<i>H. Shulman</i> A perspective from the society and women in industry, government and academia, III	<i>N. Ribeiro</i> Análise multivariada para identificação da influência dos fatores antropométricos no dispêndio metabólico na marcha durante a ...
18:00–18:20	<i>C. Bland</i> A perspective from the society and women in industry, government and academia, IV	



09:00–10:00	Anthony C. Davison How long could a human live? Chair: L. Henriques-Rodrigues	<i>Templo de Diana Room</i>
10:00–11:00	Awards Ceremony* Includes announcement of organizers of SPE 2023; ceremony of "Prémio Estatístico Júnior" includes talks from: * <i>J. Guimarães (MathGurl)</i> * <i>R. Martins</i> Chair: R.Bispo	<i>Conference Room A</i>
11:00–11:10	Break	
	Conference Room A	Conference Room B
	Modeling with Random Processes	Dimension Reduction—Methods and Techniques
11:10–11:30	<i>A. Monteiro</i> Intensity-dependent point processes	<i>R. Serrão</i> Symbolic variance maximisation for interval principal component analysis
11:30–11:50	<i>S. Dias</i> Sobre o máximo de um processo max-INAR(1) bivariado	<i>A. Subtil</i> Dimension reduction with histogram principal component analysis for the detection of internet attacks
11:50–12:10		<i>C. 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	
	Statistics of the Nation—II	Censored Data and Joint Modeling
12:20–12:40	<i>P. Brandão</i> Using GAMs to understand a 30-year fish species Portuguese historical dataset from coastal transition ecosystems	<i>R. Sousa</i> Estimação de modelos de regressão linear multivariada para dados censurados
12:40–13:00	<i>D. Carinhas</i> As marés ao serviço da variação do nível médio do mar	<i>M. Peres</i> Bivariate generalized Gompertz distribution in presence of mixture and non-mixture cure fraction models
13:00–13:20	<i>F. de Mello-Sampayo</i> Spatial temporal analysis of COVID-19 in elderly living in residential care home in Portugal	<i>N. dos Santos</i> Abordagem Bayesiana para modelo de feção de cura inflacionado de zeros aplicado a dados de tempo de vida
13:20–13:40	<i>C. Marques</i> Modelling COVID-19 positivity rate as function of wastewater viral load	<i>S. Magalhães</i> Modelos conjuntos para dados longitudinais no cancro da mama e tempo até recidiva
13:40–14:00		<i>T. 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.



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>Irradiação 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> Janaína 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 estimação dos parâmetros de misturas pseudo-convexas</i> Rui Santos , Miguel Felgueiras, João Paulo Martins
91	13	<i>Análise de sobrevivência 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 sobrevivência 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
104	16	<i>On the robust estimation of heritability and its associated confidence intervals</i> I. Mota , V.M. Lourenço, P.C. Rodrigues, Piepho H.P.
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 Cezar 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 Infância</i> Joni Santos , Luís Quinto, Sérgio Gonçalves, Ivo Roupá, Miguel Silva, Paula Simões
129	23	<i>Uma comparação de metodologias estatísticas com estruturas de dependência: caso de estudo</i> Rodrigo Silva , Mónica Figueiredo, Teresa Engana, Anabela Afonso, Gonçalo Jacinto, Paulo Infante
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, António Ramos, Ricardo Alexandre Arcêncio