†All times are WEST (UTC +1)

09:30–10:00	**FENStatS accreditation of statisticians: Why and how?** *Magnus Pettersson* **Organizer**: FENStatS, **Chair**: Maria Eduarda Silva	*Templo de Diana* **Room**

	Conference Room A	**Conference Room B**
	Statistical Analysis of Animal Density and Abundance—I Chair: Tiago Marques	**Joint session SPE–CLAD (Portuguese Association for Classification and Data Analysis)** Chairs / Organizers: Clara Cordeiro & Filomena Teodoro
10:00–10:20	*André Matos* A two-array system for localization of fish using passive acoustic data	*Cristina Andrade* Climate change projections for heating and cooling degree-days for Portugal
10:20–10:40	*Ana Galantinho* Road effects on demographic traits of small mammal populations: a capture-recapture study	*Ana Borges* Uncovering abnormal water consumption patterns for sustainability's sake
10:40–11:00	*Jaime Mosquera* Fitting flexible parametric detectability functions in distance sampling	*Marina Andrade* Brazilian electric power distributors: Excellence models
11:00–11:20		*Alda Carvalho* Análise de dados SCADA de um parque eólico em terreno complexo

11:20–11:30	**Break**

	Statistical Skills, Literacy, and Teaching Chair: Patricia de Zea Bermudez	**Mathematical Statistics and Learning** Chair: Adriano Zambom
11:30–11:50	*Nuno Sepúlveda* How to increase the visibility of a statistician in the modern world of collaborative research?	*Adriano Zambom* Testing for additivity in nonparametric heteroscedastic regression models
11:50–12:10	*M. Cristina Miranda* Moodle tests: not so much of a fuss when you have R	*Jorge Santos* Aproximations to the binomial distribution, its bounds, relative and absolute precision
12:10–12:30	*Helena Alvelos* Teaching and learning basic statistics in undergraduate programs: an unexpected switch to online classes and assessment	*Eunice Carrasquinha* Estimation of differential entropy: a comparison study
12:30–12:50		*Filipe Ramos* 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*** Learning probabilistic graphical models from large and complex data **Chair**: Patrícia Filipe	*Templo de Diana* **Room**

	Stochastic Differential Equations and Growth Models Chair: Carlos Braumann	**Longitudinal Data and Joint Modeling** Chair: Vanda Inácio de Carvalho
15:00–15:20	*Carlos Braumann* Profit optimization for SDE cattle growth models using a general profit structure	*Frederico Moreira* Longitudinal analysis of viral shedding in astronauts before, during, and after a mission to the International Space Station
15:20–15:40	*Gonçalo Jacinto* Profit optimization with sensitivity analysis for cattle growth using Gompertz and Bertalanffy–Richards SDE models	*Inês Sousa* Análise de dados longitudinais multivariados
15:40–16:00	*Patricia Filipe* Weighted maximum likelihood estimation for SDE individual growth models	*Pedro Afonso* A joint model for multiple longitudinal outcomes and terminal and recurrent events
16:00–16:20	*Nelson Jamba* Mixed models for individual growth in random environment through Laplace and delta method approximation …	*Inês Fortes* Joint models for longitudinal and time-to-event data: comparing different computational approaches

16:20–16:30	**Break**

	Statistics with Probability and Stochastic Processes Chair: Karla Ramírez	**Statistics of the Nation—I** Chair: Francisco Lima
16:30–16:50	*Gustavo Soutinho* Parametric landmark estimation of the transition probabilities in survival data with multiple events	*Inês Oliveira* Em que se parecem e em que diferem entre si os municípios Portugueses
16:50–17:10	*Júlio Pereira* An auction where prices only decrease: a probability distribution for the number of bids	*Daniela Silva* Variação espaço-temporal da distribuição e abundância da sardinha ao largo da costa continental portuguesa: efeitos ambientais
17:10–17:30	*Ivo Sousa-Ferreira* The extended Chen–Poisson marginal rate model for recurrent gap time data	*Leonor Rego* Alguns determinantes para uma maior gravidade da sinistralidade rodoviária no distrito de Setúbal
17:30–17:50	*Helena Ribeiro* Sistemas M^X/M/c/n com bloqueio e abandono	*Ana Castanheira* Fatores de risco para a demora no diagnóstico da tuberculose em Portugal

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