

Thursday, 11 April

8:30 Registration - Hall of ESTGV Auditorium

9:00 **Mini-course A** - Room SD1
Longitudinal data analysis
M. Salomé Cabral

10:15 **Coffee Break**

10:30 **Mini-course A** (cont.)

12:00 **Lunch Time**

13:00 **Mini-course B** - Room SD1
Compositional data analysis: concepts, software, and examples
Peter Filzmoser

14:30 **Coffee Break**

14:45 **Mini-course B** (cont.)

16:00 **Opening Session of the Meeting** - ESTGV Auditorium

16:30 **Plenary Session I** - ESTGV Auditorium
Robust proposals for model based clustering of multivariate data
Agustín Mayo-Iscar

17:30 **Thematic Session I - CLAD's 25 Years** - ESTGV Auditorium
Helena Bacelar-Nicolau, Fernanda Sousa, José G. Dias

18:30 **Reception: *Dão de Honra*** - Solar do Vinho do Dão

Friday, 12 April

8:30 Registration - Hall of ESTGV Auditorium

9:00 Parallel Session I

	Room A2	Room A3
	Clustering and outliers detection methods	Data science modeling
9:00	From sparse principal components to clustering of variables in high-dimensional data , Adelaide Freitas	State Space Modeling in Water Quality Monitoring in a River Basin , A. Manuela Gonçalves, Marco Costa
9:20	Evaluating outlier detection methods: A review of performance measures , Pedro Duarte Silva	Normalization of foot clearance and spatiotemporal gait data using multiple linear regression models , Flora Ferreira, Carlos Fernandes, Miguel Gago, Nuno Sousa, Wolfram Erlhagen, Estela Bicho
9:40	Looking for atypical groups of distributions in the context of genomic data , Ana Helena Tavares, Vera Afreixo, Paula Brito	Pediatric arterial hypertension modeling , Filomena Teodoro, Carla Simão
10:00	Internet usage patterns: Segmentation of European users using a multilevel latent class model , Ana Gomes, José G. Dias	First four order cumulants in Mixed Models , Patrícia Antunes, Ferreira, S.S., Nunes, C., Ferreira, D., Mexia, J.T.

10:20 **Coffee Break**

10:40 Parallel Session II

	Room A2	Room A3
	Data science in health and economics	Classification and symbolic data
10:40	Predictive value in healthcare: a forgotten measure? , Carina Ferreira, Teresa Abreu, Mário Basto	Multiple-valued symbolic data clustering: a model-based approach , José G. Dias
11:00	Analysis of administrative data with a binary response variable , Maria de Fátima Salgueiro, Marcel D.T. Vieira, Smith, P.W.F.	Time series clustering using forecast densities based on GAM models , Maria Almeida Silva, Conceição Amado, Dália Loureiro
11:20	Understanding power at tax investigation - The Portuguese tax inspector's view , João Marques, Ana Helena Tavares	Clustering Interval Time Series , Elizabeth Ann Maharaj, Paulo Teles, Paula Brito
11:40	Reduced Social Accounting Matrix for Mozambique , Eliza Monica A. Magaua	Discriminant factors of website trust , Ana Andrade, Margarida G. M. S. Cardoso, Vítor V. Lopes

12:00 **Plenary Session II - ESTGV Auditorium**
Modelling longitudinal binary data
M. Salomé Cabral

13:00 **Lunch Time**

14:00 **Thematic Session II - Banco de Portugal - ESTGV Auditorium**
Economy and finance

14:00 **Identifying High Growth Enterprises using different criteria**, Ana Filipa Carvalho, Cloé Magalhães, João Meneses, Mário Lourenço

14:20 **The Value Relevance of Consolidated Financial Information**, Ana Bárbara Pinto, Diogo Silva

14:40 **Loans and debt securities - an analysis of corporate financing**, André Fernandes, José Soares, Pedro Silva, Rafael Figueira, Ricardo Correia

15:00 **What are we holding? - households' investments in negotiable financial instruments**, André Fernandes, José Soares, Pedro Silva, Rafael Figueira, Ricardo Correia

15:20 **Thematic Session III - Scholarship CLAD 2019 - ESTGV Auditorium**

15:20 **Anomaly detection and classification for streaming data**, João Brazuna

15:40 **An approach for representing Pareto frontiers on the web**, Marco Marto

16:00 **Symbolic clustering and anomaly detection for business analytics**, Ana Teresa Fernandes

16:20 **Coffee Break**

16:40 **Thematic Session IV - Statistics Portugal - ESTGV Auditorium**
Challenges in Official Statistics VIII

16:40 **Using administrative data to enumerate population**, Sandra Lagarto, Paula Paulino

17:00 **Survey on Mobility in the Metropolitan Areas of Porto and Lisboa (IMob)**, Bárbara Veloso, Rute Cruz Calheiros

17:20 **The Well-being Index of Portugal: assessment and outlook**, Sérgio Bacelar

17:40 **Speak to Inspire about Statistics**, Carla Farinha, José Pinto Martins, Margarida Rosa

18:00 **Visit to Historic Centre of Viseu**

19:30 **General Assembly of CLAD - Clube de Viseu**

20:30 **Meeting Dinner - Clube de Viseu**

Saturday, 13 April

9:00 Registration - Hall of ESTGV Auditorium

9:30 Parallel Session III

	Room A2	Room A3
	Data science applications	Data science in health and educational sciences
09:30	Pilgrimage and mobile use , Carla Henriques, Ângela Antunes, Suzanne Amaro	PLS-SEM in college students' burnout , Luis M. Grilo, Anuj Mubayi, Katelyn Dinkel, Bechir Am-douni, Joy Ren, Mohini Bhakta
09:50	How social networks influence similarity between examination answers - longitudinal study , Milton Severo, João Borges, Fernanda Silva-Pereira	Modelling a predator-prey interaction: an in-class exercise , Inês Bento, Joana Araújo, Joana Pereira, Margarida Marques, Matilde Almodovar, Morgan Ribeiro, Pedro Afonso, Rita Pereira, Tiago Marques
10:10	Prices in the electricity Iberian market - a clustering approach , Ana Martins, João Lagarto, Margarida Cardoso	Higher Education Students in Viseu Polytechnic - an evolutive study since the Bologna Treaty , Joana Fialho, Madalena Malva, Paula Sarabando, Paulo Costeira
10:30		Clinical characteristics of patients with chronic obstructive pulmonary disease (COPD): are they different? , Vera Enes, Ana Helena Tavares, Vera Afreixo, Filipa Machado, Alda Marques
<hr/>		
10:50	Coffee Break	
<hr/>		
11:10	Thematic Session V - CLAD - SPE - ESTGV Auditorium	
	Analysing time series data: from classical to innovative approaches	
11:10	Dynamic Principal Component Analysis , Isabel Silva, Maria Eduarda Silva	
11:30	Time series analysis via complex networks: a first approach , Vanessa Silva, Maria Eduarda Silva, Pedro Ribeiro	
11:50	Risk stratification of heart failure patients from age-independent thresholds , Sónia Gouveia, Manuel G. Scotto, Paulo J. S. G. Ferreira	
12:10	Detection of Diseases in Heart Rate Variability , Argentina Leite, Ana Paula Rocha, Maria Eduarda Silva	
<hr/>		
12:30	Lunch Time	
<hr/>		

13:30 **Poster Session** - Auditorium atrium

Statistical modeling: a study on customer retention in health & fitness industry, A. Manuela Gonçalves, Guadalupe Costa, Alexandre Freitas

Application of principal components analysis to life cycle analysis for environmental assessment in production systems in Mexico - case studies of maize and porcine production, Miriam Paulino Flores, Maria del Rosario Villavicencio, Angel Campos, Francisco Castañeda, Ana Lorga da Silva

Pavement friction performance model, Adriana Santos, Susana Faria, Elisabete Freitas

The effect of incubation on the companies' performance: a study with companies from the central region of Portugal, Carla Henriques, Pedro Pinto, Rita Almeida

Corporate social responsibility: What about Portugal?, Cláudia Silvestre, Mafalda Eiró-Gomes, Ana Raposo, João Simão, Tatiana Nunes

Comparison of tides in real time, Dora Carinhas, Paulo Infante, António Martinho, Pedro Santos

Nonparametric two-way ANOVA: A simulation study to compare results from balanced and unbalanced designs, Dulce G. Pereira, Anabela Afonso

Chemical hazard pictograms and safety signs taught in higher education: a statistical approach, Fernando Sebastião, Lizete Heleno, Sílvia Monteiro

Maximum likelihood method by logistic regression in the evaluation of lifestyles, anthropometric and lipid indicators in young university students with and without family support, João Paulo Figueiredo, Mariana Pratas, Mariana Pereira, Daniela Correia, Nádia Osório, Armando Caseiro, António Gabriel, Andreia Costa, Ana Ferreira

Evaluation of potential biomarkers in the development of chronic complications in Diabetes Mellitus using the binary logistic regression model, João Paulo Figueiredo, Andreia Almeida, Ana Cristina Alves, Cláudia Silva, Tatiana Varandas, Amélia Pereira, Élio Rodrigues, Marta Amaral, Ana Valado, Nádia Osório, António Gabriel, Armando Caseiro

Detection of outliers municipalities in Portugal: a compositional analysis of occupational status and academic qualification, Letícia Leite, Adelaide Freitas, Cristina Gomes

A simulation study for robustly estimate the number of components for finite mixtures of linear mixed models, Luísa Novais, Susana Faria

Zika: literacy and behavior of individuals on board ships. A preliminary analysis, João Faria, Rosa Teodósio, M. Filomena Teodoro, Claudia Valete

Perception of business corruption in EU28: A multilevel application, Nikolai Witulski, José G. Dias

Desires, fears and degree of satisfaction with life of young students of secondary education in a county in the interior of Portugal, Paulo Infante, Anabela Afonso, Gonçalo Jacinto, Rosalina Pisco Costa, José Conde, Luísa Policarpo

Handling overdispersion count data, Susana Faria

14:10 **Plenary Session III** - ESTGV Auditorium
The log-ratio approach to handle relative information
Peter Filzmoser

15:10 **Closing Session of the Meeting** - ESTGV Auditorium

15:30 **Coffee Break**
