

## LIAAD Production (2014)

LIAAD Production (2014) .....	1
2014.....	1
Publications.....	1
Editor (1).....	1
Book Chapters (12) .....	1
Articles in International Journals (34) .....	2
In proceedings of international conferences with CORE>=B, ISI or SCOPUS (20).....	4
In proceedings of other international conferences (46).....	5
In proceedings of national conferences (9).....	8
Organization of Conferences (21) .....	9
Communications (Oral) at International Scientific Meetings (5).....	9
Computational Applications (3).....	10
Thesis.....	10
PhD (11).....	10
MSc (54).....	11
Models (0).....	14
Pilot facilities (1).....	14
Laboratory prototypes (0) .....	14
Other (9).....	14

## 2014

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### Publications

#### Editor (1)

1. A. A. Pinto and D. Zilberman. Modeling, Dynamics, Optimization and Bioeconomics I, Springer Proceedings in Mathematics and Statistics, Volume 73, (2014)

#### Book Chapters (12)

1. A. A. Pinto and T. Parreira. Complete versus Incomplete Information in the Hotelling Model. In: A. A. Pinto and D. Zilberman, editors. Modeling, Dynamics, Optimization and Bioeconomics I, Springer Proceedings in Mathematics and Statistics, Volume 73, (2014) pp 567-583.
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5. Dalila B. M. M. Fontes, Fernando A. C. C. Fontes, Luís A. C. Roque; Optimal Control Formulations for the Unit Commitment Problem in Dynamics of Information Systems; Springer Proceedings in Mathematics & Statistics Volume 105, 2014, pp 109-127
6. Dias, A., Campos, P. and Garrido, P. An agent based model of bank failures, in Amblard, F., Miguel, F., Blanchet, A. and Gaudou, B. (eds.), *Advances in Artificial Economics*, LNEMS – 676, (Springer, 2014) pp. 119-130.
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8. Giordano, G., and Brito, P. (2014), "Social Networks as Symbolic Data". In: *Analysis and Modeling of Complex Data in Behavioral and Social Sciences*, D. Vicari, A. Okada, G. Ragozini, and C. Weihs, (Eds.), Springer.
9. J.P. Almeida, A.A. Pinto and D.A. Rand. Renormalization of circle diffeomorphism sequences and Markov sequences. In: C. Grcio, D. Fournier - Prunaret, T. Ueta and Y. Nishio (Eds.). *Nonlinear maps and their applications*, Springer Proceedings in Mathematics and Statistics Volume 57, (2014) Ch. 1, pp 1-8.
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11. Marta Monteiro, Dalila Fontes, Fernando Fontes, Hop-constrained tree-shaped networks in Examining Robustness and Vulnerability of Networked Systems, pp.192-208, 2014.
12. Rui Sarmento, Luís Trigo, Liliana Fonseca, A Comprehensive Workflow for Enhancing Business Bankruptcy Prediction (pages 216-238) in *Integration of Data Mining in Business Intelligence Systems*, September 2014; DOI: 10.4018/978-1-4666-6477-7.ch011

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1. Alberto Pinto, Diogo Pinheiro, C.A.A. de Carvalho, M.M. Peixoto, An Asymptotic Universal Focal Decomposition for Non-Isochronous Potentials, *Transactions of the American Mathematical Society*, vol.366, no.4, pp.2227-2263, 2014.
2. Brito, P. (2014) "Symbolic Data Analysis: another look at the interaction of Data Mining and Statistics". *WIREs Data Mining and Knowledge Discovery*, Volume 4, Issue 4, July/August 2014, 281–295. DOI: 10.1002/widm.1133
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5. Célia Talma Gonçalves, Rui Camacho, Eugénio Oliveira, "Ranking MEDLINE Documents", *Journal of the Brazilian Computer Society*, volume 20, number 13, 2014, doi:10.1186/1678-4804-20-13
6. Célia Valente, Rui Camacho, Eugénio Oliveira, Ranking MEDLINE documents, *Journal of the Brazilian Computer Society*, Vol.20 nº 13, pp.-, 2014
7. Fernando E. Correa, Márcia Barbosa Oliveira, João Gama, Pedro L. P. Corrêa, Jorge Rady, Analyzing the behavior dynamics of grain price indexes using Tucker tensor decomposition and spatio-temporal trajectories, *Computers and Electronics in Agriculture*, 2014.

8. Hadi Fanaee Tork, João Gama, Eigenspace method for spatiotemporal hotspot detection, *Expert Systems: The Journal of Knowledge Engineering*, Setembro, 2014. DOI: 10.1111/exsy.12088
9. Hadi Fanaee Tork, João Gama, Event Labeling Combining Ensemble Detectors and Background Knowledge, *Progress in Artificial Intelligence*, vol.2, no.2, pp.113-127, Junho, 2014. DOI:10.1007/s13748-013-0040-3
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12. João Gama, Petr Kosina, Recurrent concepts in data streams classification, *Knowledge and Information Systems*, vol.40, no.3, pp.489-503, 2014.
13. João Maia Duarte, João Gama, Ensembles of Adaptive Model Rules from High-Speed Data Streams, *Journal of Machine Learning Research*, vol.36, pp.198-213, 2014.
14. José Fernando Gonçalves, Mauricio G. C. Resende, An extended Akers graphical method with a biased random-key genetic algorithm for job-shop scheduling, *International Transactions in Operational Research*, vol.21, no.2, pp.215-246, Março, 2014.
15. José Fernando Gonçalves, Mauricio G. C. Resende, Miguel Dias Costa, A biased random-key genetic algorithm for the minimization of the open stacks problem, *International Transactions in Operational Research*, Julho, 2014.
16. José Fernando Gonçalves, Mauricio G. C. Resende, Rodrigo F. Toso, AN EXPERIMENTAL COMPARISON OF BIASED AND UNBIASED RANDOM-KEY GENETIC ALGORITHMS, *Pesquisa Operacional*, vol.34, no.2, Agosto, 2014.
17. Luís Roque, Dalila Fontes, Fernando Fontes, A hybrid biased random key genetic algorithm approach for the unit commitment problem, *Journal of Combinatorial Optimization*, vol.28, no.1, pp.140-166, 2014.
18. Luis Torgo, Paula Branco, Rita P. Ribeiro and Bernhard Pfahringer, Re-sampling Strategies for Regression, *Expert Systems: The Journal of Knowledge Engineering*, DOI: 10.1111/exsy.12081, August 2014.
19. Márcia Oliveira, Américo Guerreiro, João Gama, Dynamic communities in evolving customer networks: an analysis using landmark and sliding windows, *Social Network Analysis and Mining* vol.4, no.1, pp.1-19, 2014
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21. Marcos Domingues, Carlos Manuel Soares, Alípio Jorge, Solange Rezende, A data warehouse to support web site automation, *Journal of the Brazilian Computer Society*, vol.20, no.11, pp.1-16, 2014.
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- Based Collaborative Filtering Approach, *APPLIED SOFT COMPUTING*, Vol.23, pp.180-193, 2014.
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  27. Pedro M. R. Mendes-Moreira, João Mendes-Moreira, António Fernandes, Eugénio Andrade, Arnel R. Hallauer, Silas E. Pêgo, M. C. Vaz Patto, Is ear value an effective indicator for maize yield evaluation?, *Field Crops Research*, Vol.161, pp.75-86, 2014.
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  30. R. Soeiro, A. Mousa, T. Oliveira and A. A. Pinto. Dynamics of Human Decisions. *Journal of Dynamics and Games*, Volume 1 (1),(2014) 121-151.
  31. Ricardo Campos, Gaël Dias, Alípio Jorge, Adam Jatowt, Survey of Temporal Information Retrieval and Related Applications, *ACM Computing Surveys*, Vol 47(2), pp.1-41, August 2014, ISSN 0360-0300. ISI Impact Factor (2012): 3.543. 5-Year Impact Factor: 7.854. Quartile: Q1.
  32. Ricardo M. A. Silva, Diego M. Silva, Mauricio G. C. Resende, Geraldo R. Mateus, José Fernando Gonçalves, Paola Festa, An edge-swap heuristic for generating spanning trees with minimum number of branch vertices, *Optimization Letters*, vol.8, no.4, pp.1225-1243, 2014.
  33. Rosane Maffei, João Gama, Unsupervised density-based behavior change detection in data streams, *Intelligent Data Analysis*, vol.18, no.2, pp.181-201, 2014.
  34. Zoran Bosnic, Pedro Pereira Rodrigues, João Gama, outros et al., Enhancing data stream predictions with reliability estimators and explanation, *Expert Systems with Applications*, vol.34, pp.178-192, 2014.

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1. Alípio Jorge, José Paulo Leal, Sarabjot Anand, A study of machine learning methods for detecting user interest during web sessions, *IDEAS 2014 - 18th International Database Engineering & Applications Symposium*, Porto, Portugal, Julho, 2014.
2. Campos, R., Dias, G., Jorge, A. and Nunes, C. (2014). GTE-Rank: Searching for Implicit Temporal Query Results. In *Proceedings of the 23rd ACM International Conference on Information and Knowledge Management (CIKM 2014)* Shanghai, China, November 3 - 7, ISBN 978-1-4503-2598-1, pp 2081 - 2083. DBLP. ACM Press. Scopus.
3. Campos, R., Dias, G., Jorge, A., and Nunes, C. (2014). GTE-Cluster: A Temporal Search Interface for Implicit Temporal Queries. In M. de Rijke et al. (Eds.), *Lecture Notes in Computer Science*, - 36th European Conference on Information Retrieval (ECIR2014). Amsterdam, Netherlands, 13 - 16 April. (Vol. 8416-2011, pp. 775 - 779). DBLP. Springer. Thomson ISI Web of Knowledge. ACM Press.
4. Catarina Félix, Carlos Soares, Alípio Jorge, João Vinagre, Monitoring Recommender Systems: A Business Intelligence Approach, *ICCSA 2014 - 14th International Conference on Computational Science and Its Applications*, Guimarães, Portugal, June 30 - July 3, 2014, LNCS v. 8584, pp 277-288, Springer
5. Cláudia Camila Dias, Cristina Granja, Altamiro Costa-Pereira, João Gama, Pedro Pereira Rodrigues, Using probabilistic graphical models to enhance the prognosis of health-related quality of life in adult survivors of critical illness, *CBMS 14 - INTERNATIONAL SYMPOSIUM ON COMPUTER-BASED MEDICAL SYSTEMS*, pp.56-61, New York, USA, Maio, 2014.

6. Elsa Gomes, Alípio Jorge, Paulo Jorge Azevedo, Classifying heart sounds using SAX motifs, random forests and text mining techniques, IDEAS 2014 - 18th International Database Engineering & Applications Symposium, Porto, Portugal, 2014.
7. Fábio Pinto, Carlos Soares, João Mendes-Moreira, An Empirical Methodology to Analyze the Behavior of Bagging, in The 10th International Conference on Advanced Data Mining and Applications, pp.199-212, 2014.
8. Fábio Pinto, Carlos Soares, João Mendes-Moreira, Rosaldo J. F. Rossetti, Simulation of the ensemble generation process: the divergence between data and model similarity, in 28th European Simulation and Modelling Conference (ESM'2014), 2014.
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11. João Vinagre, Alípio Mário Jorge, João Gama, Fast Incremental Matrix Factorization for Recommendation with Positive-Only Feedback, UMAP 2014 - 22nd International Conference on User Modeling, Adaptation and Personalization, Aalborg, Denmark, July 11-17, 2014, LNCS v. 8538, pp. 459-470, Springer
12. Luís Moreira-Matias, João Gama, João Mendes-Moreira, Jorge Freire Sousa, An Incremental Probabilistic Model to Predict Bus Bunching in Real-Time, in Advances in Intelligent Data Analysis, pp.227-238, 2014.
13. Luís Moreira-Matias, Rafael Nunes, Michel Ferreira, João Mendes-Moreira, João Gama, On Predicting a Call Center's Workload: A Discretization-based Approach, in Foundations of Intelligent Systems, pp.548-553, 2014.
14. Mariana Oliveira and Luis Torgo (2014): Ensembles for Time Series Forecasting, in Proceedings of Asian Conference on Machine Learning (ACML'2014). JMLR: Workshop and Conference Proceedings, vol. 39, 360-370.
15. Norberto Leite Bessa, Dalila Fontes, Poster City logistics: Analyzing the impact of different public policies in the Oporto city, IDEAS '14 Proceedings of the 18th International Database Engineering & Applications Symposium, pp.372-373, 2014.
16. Nuno Moniz, Luis Torgo and Fátima Rodrigues (2014): Resampling approaches to improve news importance prediction, in Advances in Intelligent Data Analysis XIII (IDA'2014), Blockeel et. al. (eds.), pp. 215-226, LNCS vol. 8819, Springer
17. Pedro Mota Pereira, Rita Paula Ribeiro, João Gama, Failure prediction - an application in the railway industry, DS 2014 - Discovery Science 2014, vol.8777, pp.264-275, Bled, Slovenia, 2014.
18. Pedro Strecht, João Mendes-Moreira, Carlos Soares, Merging Decision Trees: a case study in predicting student performance, in The 10th International Conference on Advanced Data Mining and Applications, pp.535-548, 2014.
19. Soraia Oliveira, Elsa Gomes, Alípio Jorge, Heart sounds classification using motif based segmentation, IDEAS 2014 - 18th International Database Engineering & Applications Symposium, Porto, Portugal, 2014.
20. Vânia Gomes Almeida, João Gama, Collaborative Wind Power Forecast, ICAIS'14 - 2014 International Conference on Adaptive and Intelligent Systems, vol.8779, pp.162-171, Bournemouth, UK, 2014.

#### **In proceedings of other international conferences (46)**

1. Adelaide Figueiredo, Fernanda Figueiredo, Monitoring the covariance matrix of a multivariate skew normal distribution, SMTDA 2104 - 3rd Stochastic Modeling Techniques and Data Analysis, pp.235-242, Lisboa, Portugal, 2014.

2. Adelaide Figueiredo, Fernanda Figueiredo, Monitoring the variability of a multivariate normal process using STATIS, COMPSTAT 2014 - 21st International Conference on Computational Statistics, pp.443-450, Geneva, Suíça, 2014.
3. Alberto Pinto, Mohammad Choubdar Ahmadi, Uncertainty effects in the stakelberg model, AIMS 2014 - The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Espanha, Abril, 2014.
4. Alberto Pinto, Telmo Parreira, Price competition in the Hotelling model with uncertainty on costs, AIMS 2014 - The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Espanha, Abril, 2014.
5. Anh Thu Vu, João Gama, Distributed Adaptive Model Rules for mining big data streams, Proceedings BigData 2014 - IEEE International Conference on Big Data, Big Data 2014, ISBN 978-1-4799-5665-4, pp.345-353, Washigton, USA, Outubro, 2014.
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8. Brito P.Q.; Typology of parents' control over their children online activities, Child and Teen Consumption, University of Edinburgh Business School, April 9th – 11th 2014. Em co-autoria com Elsa Fernandes.
9. Brito, P. "Multivariate Analysis of Distributional Data". Joint Statistical Meetings (JSM 2014), Boston, USA, August 2nd-7th 2014.
10. Brito, P., "From Micro-Data to Macro-Data: Symbolic Data Analysis". European Conference on Quality in Official Statistics (Q2014), Vienna, Austria, June 3rd-5th 2014.
11. Brito, P., "The Symbolic Approach for Survey Analysis: From Micro-Data to Macro-Data". Conference of European Statistics Stakeholders. ROME, Sapienza University, Dpt. of Statistical Sciences, November 24th-25th 2014.
12. Brito, P., De Carvalho, F.A.T. "Classification hiérarchique de données distributionnelles contraintes". XXIème Rencontre de la Société Francophone de Classification, Rabat-Maroc, September 10th-12th 2014.
13. Brito, P., Filzmoser, P., Hron, K. "Exploratory data analysis for interval compositional data." 4th Workshop in Symbolic Data Analysis (SDA 2014). Academia Sinica, Taipei, Taiwan, June 14th-16th 2014.
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15. Brito, P., Ichino, M. "The Data Accumulation Graph (DAG): Visualization of High Dimensional Complex Data". 21st International Conference on Computational Statistics – COMPSTAT 2014, Geneva, Switzerland, August 19th-22nd 2014.
16. Correia, S., Brito, P., Brandão, E. "Corporate Debt Maturity: An International Comparison of Firm Debt Maturity Choices". Proc. Paris Financial Management Conference 2014
17. Dalila B.M.M. Fontes, Fernando A.C.C. Fontes. Project scheduling with alternative tasks subject to technical failure via dynamic programming. INFORMS Optimization Society Conference Theory and Practice: Dealing with Big Data and other challenges, Houston, USA March 2014.
18. Dalila Fontes, José Fernando Gonçalves, A Genetic Algorithm for scheduling alternative tasks subject to technical failure, OCAIA - Optimization, Control and Applications in the Information Age, Chalkikdiki, Greece, Junho, 2014.

19. Fábio Pinto, Carlos Soares, João Mendes-Moreira, A framework to decompose and develop metafeatures, in Meta-Learning and Algorithm Selection Workshop at ECAI 2014, pp.32-36, 2014.
20. Fernanda Figueiredo, Maria Ivette Gomes, Adelaide Figueiredo, Monitoring the shape parameter of a Weibull distribution, COMPSTAT 2014 - 21st International Conference on Computational Statistics, pp.395-402, Geneva, Suíça, 2014.
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23. João Paulo Almeida, Alberto Pinto, Anosov diffeomorphisms and  $\gamma$ -tilings, 10th AIMS - The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Espanha, 2014.
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25. João Vinagre, Alípio Mário Jorge, João Gama, Evaluation of Recommender Systems in Streaming Environments, REDD 2014 - ACM RecSys Workshop on Recommender Systems Evaluation: Dimensions and Design, in conjunction with RecSys 2014 - 8th ACM Conference on Recommender Systems, Foster City, Silicon Valley, USA, October 6-10, 2014
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27. José Martins, Alberto Pinto, A game theoretical analysis of vaccination games, 10th AIMS - The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Espanha, Abril, 2014.
28. Luís Moreira-Matias, João Mendes-Moreira, João Gama, Michel Ferreira, On Improving Operational Planning and Control in Public Transportation Networks using Streaming Data: A Machine Learning Approach, in ECML/PKDD 2014 PhD Session, pp.41-50, 2014.
29. Luís Moreira-Matias, João Mendes-Moreira, Michel Ferreira, João Gama, Luís Damas, An Online Learning Framework for Predicting the Taxi Stand's Profitability, in ITSC 2014, pp.2009-2014, 2014.
30. Luís Pimentel Trigo, Pavel Brazdil, Affinity Analysis between Researchers using Text Mining and Differential Analysis of Graphs, PhD Session of ECML PKDD 2014 - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, pp.169-176, Nancy, France, Setembro, 2014.
31. Luís Roque, Dalila Fontes, Fernando Fontes, The Unit Commitment Problem with Periodicity Constraints, Optimization 2014 - Optimization 2014, Guimarães, Portugal, Julho, 2014.
32. Marcos Domingues, Alípio Jorge, Carlos Manuel Soares, Solange Rezende, Improving Multidimensional Recommender Systems Using Dimensions as Virtual Items, Proceedings of SEMISH 2014 - Congresso da Sociedade Brasileira de Computação; Seminário Integrado de Software e Hardware, Brasília, Brazil, 2014.
33. Mariana Oliveira and Luis Torgo (2014): Ensembles for Time Series Forecasting (abstract), proceedings of late breaking papers of Discovery Science 2014
34. Monteiro, N., Rossetti, R., Campos, P., Kokkinogenis, Z., (2014), A Framework for Dynamic O-D matrices for Multimodal transportation: an Agent-Based Model approach, mobil. TUM 2014, International Scientific Conference on Mobility and Transport - Sustainable Mobility in Metropolitan Regions, Berlin, Germany

35. Noirhomme-Fraiture, M., Brito, P., Amouh, T. "Deux visualisations de quantiles pour des données symboliques". XXIème Rencontre de la Société Francophone de Classification, Rabat-Maroc, September 10th-12th 2014.
36. Nuno Moniz and Luis Torgo (2014): Improvement of News Ranking through Importance Prediction, proceeding of KDD'2014 workshop NewsKDD - Data Science for News Publishing. DOI: 10.13140/2.1.4035.3282
37. Pedro Abreu, Carlos Soares e Rui Camacho, "Distributed Environment Framework for Optimization Experiments", The 2014 International Conference on Computational Science and Its Applications (ICCSA 2014)
38. Pedro Strecht, João Mendes Moreira, Carlos Soares, Educational Data Mining: preliminary results at University of Porto, in EUNIS 2014, 2014.
39. Raquel Morte, Teresa Pereira, Dalila Fontes, Road drivers Performance Appraisal using a MCDA method: A Case Study in the Road Transport Company, IIRH - IIRH, Vila do Conde, Portugal, 2014.
40. Raquel Sebastião, João Gama, Teresa Mendonça, Comparing Data Distribution Using Fading Histograms, ECAI 2014 - 21th European Conference on Artificial Intelligence, vol.263, pp.1095-1096, August, 2014, Prague, Czech Republic. [DBLP]
41. Ricardo Magalhães Cruz, Beating memory-1 automata on prisoners dilemma, UECE in Game Theory - UECE Lisbon Meetings in Game Theory and Applications, pp.6, Lisboa, Portugal, Novembro, 2014.
42. Ricardo Magalhães Cruz, Renato Fernandes, Alberto Pinto, Model for Wolf's sunspot numbers, AIMS 2014 - The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Espanha, Abril, 2014.
43. Ricardo Magalhães Cruz, Renato Fernandes, Alberto Pinto, Testing the Universality of the BHP distribution, AIMS 2014 - The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Espanha, Abril, 2014.
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46. Salisu Mamman Abdulrhaman, Pavel Brazdil, Measures for Combining Accuracy and Time for Meta-learning, MetaSel - ECAI 2014 - Meta-learning & Algorithm Selection ECAI-2014 Workshop W3, Prague, Czech Republic, 2014.

#### **In proceedings of national conferences (9)**

1. Adelaide Figueiredo, Fernanda Figueiredo, Metodologia STATIS em Controlo Estatístico da Qualidade, JOCLAD 2014 - XXI Jornadas de Classificação e Análise de Dados, pp.93-96, Lisboa, Portugal, 2014.
2. Conceição Nunes Rocha, Alípio Jorge, Márcia Barbosa Oliveira, Paula Brito, João Gama, Carlos Pimenta, Text mining a Portuguese book on Freemasonry: Disclosing network communities' features, INFORUM 2014 - INFORUM 2014 - Simpósio de Informática, Porto, Portugal, 2014.
3. Duarte Silva, A.P., Brito, P. "Discriminant analysis of interval data: Parametric versus distance-based approaches." JOCLAD 2014, Lisbon, Portugal, April 10th-12th 2014.
4. Ichino, M., Brito, P. "A hierarchical conceptual clustering based on the quantile method for mixed data." JOCLAD 2014, Lisbon, Portugal, April 10th-12th 2014.
5. Luís Pimentel Trigo, Pavel Brazdil, Análise de Afinidades entre Investigadores com Text Mining, JOCLAD 2014 - XXI Jornadas de Classificação e Análise de Dados, Lisboa, Portugal, Abril, 2014.
6. Maria Ivette Gomes, Fernanda Figueiredo, Adelaide Figueiredo, Controlo Estatístico da Qualidade em Indústria e Serviços, CCDA 2014 - II Congresso de



- Ciência e Desenvolvimento dos Açores e VII Congresso de Gestão e Conservação da Natureza, pp.42-52, Angra do Heroísmo, Açores, 2014.
7. Martins, J., H., Campos, P. (2014), Avaliação da semelhança de padrão em séries temporais multivariadas: aplicação ao caso de estudo de fogos florestais em Portugal, Encontro Luso-Galaico de Estatística em Ambiente e Ecologia, Vila Real, (EES2014)
  8. Pereira, S., Correia, L., Campos, P. (2014), Estimação do desemprego ao nível NUTS III, JOCLAD, XXI Jornadas de Classificação e Análise de Dados (JOCLAD 2014), INE, Lisboa
  9. Raquel Sebastião, Armando J. Pinho. Detecting unknown pattern repeats: first results using a probabilistic approach. Proceedings of the 20th Portuguese Conference on Pattern Recognition, RecPad 2014, Covilhã, Portugal, October 2014.

### **Organization of Conferences (21)**

1. Alecandre Carvalho – Program Committee Member of IBERAMIA 2014, Santiago de Chile, Chile, 24-27 November
2. Alípio Jorge, Web and Text Intelligence Track of the 18th International Database Engineering & Applications Symposium (IDEAS 2014), 07-09 July 2014, Porto, Portugal.
3. Dalila Fontes - ECTA 2014 (6th International Conference on Evolutionary Computation Theory and Applications) – Organizing Committee and Scientific Committee - Rome, Italy, October 2014.
4. Dalila Fontes - Optimization Control and Applications in the Information Age, Chalkidiki, Greece, June 2014.
5. João Gama - Programm Committee Member of KDD 2014
6. João Gama - Programm Committee Member of BigMine-2014
7. João Gama - Programm Committee Member of DCAI'14
8. João Gama - Programm Committee Member of DS2014
9. João Gama - Programm Committee Member of DSAA'2014
10. João Gama - Programm Committee Member of ICAIS 2014
11. João Gama - Programm Committee Member of KDMILE 2014
12. João Gama - Programm Committee Member of MDM 2014
13. João Gama - Senior Programm Committee Member of IDA 2014
14. João Gama - Track chair in ACM-SAC 2014
15. João Gama - Track chair in IBERAMIA 2014
16. João Gama – Area Chair of ECMLPKDD 2014
17. João Gama - Programm Committee Member of ICT Innovations 2014
18. Paula Brito; Program Committee of the following international conferences and workshops: SFC2014 ; EGC 2014 ; ICPRAM 2014
19. Pavel Brazdil - member of Program Committee of the following conferences: KDD-2014, ECML/PKDD-2014, ICDM-2014, KDIR-2014
20. Pavel Brazdil et al., MetaSel - Meta-learning & Algorithm Selection, ECAI-2014 Workshop W3, Prague, 19 August 2014
21. Ricardo Campos - Organizing Committee of 18th International Database Engineering & Applications Symposium (IDEAS 2014). Track: Web and Text Intelligence, Porto, Portugal, 07 - 09 July.

### **Communications (Oral) at International Scientific Meetings (5)**

1. A.R.F. Carvalho, João Gama - International Conference on Dynamics, Games and Science III. 2014, Porto, Portugal.

2. Jeffrey E. Schaller, Jorge M. S. Valente, "An Enhancement to the Lagrangian Relaxation Heuristic for Weighted Sum of Squared Tardiness on Identical Parallel Machines", DSI 2014 -- Decision Sciences Institute 45th Annual Meeting, Tampa, E.U.A., 2014 (22-25/11).
3. João Mendes-Moreira, Merging Decision Trees: a case study in predicting student performance, in The 10th International Conference on Advanced Data Mining and Applications, Guilin, China, 2014.
4. Rui Gonçalves; Modeling errors in temperature forecasts; 3rd Stochastic Modeling Techniques and Data Analysis International Conference; June 2014
5. Vânia Almeida; Finding Time Series Motifs in Wind Power Generation; Thematic Session: Data Sciences; 3rd International Conference on Dynamics, Games and Science - Finding Time Series Motifs in Wind Power Generation, Porto; February 2014

### **Computational Applications (3)**

1. Alípio Jorge; carenR - R package for association rule mining.
2. Luís Torgo; performanceEstimation, an R package for estimating the performance of predictive models. <https://github.com/ltorgo/performanceEstimation> ; <http://cran.r-project.org/web/packages/performanceEstimation/index.html>
3. Luis Trigo, Pavel Brazdil, Rui Sarmiento: Affinity Miner

### **Thesis**

#### **PhD (11)**

1. Ana Raquel Ferreira de Almeida Sebastião, Learning From Data Streams: Synopsis and Change Detection, PhD in Applied Mathematics, Supervisor: João Gama, Co-Supervisor: Teresa Mendonça, January 2014.
2. Belém Ferreira Barbosa, Comunicação passa-palavra recebida por crianças e adolescentes: desenvolvimento e validação de medida, Doutoramento em Ciências Empresariais – FEP, Supervisor: Pedro Quelhas Brito, July 2014.
3. Carlos Manuel Abreu Gomes Ferreira, Exploring Temporal Patterns from Multi-relational Databases, Programa Doutoral em Ciência de Computadores (FCUP), Supervisor: João Gama, Co-Supervisor: Vítor Santos Costa, June 2014.
4. Elaine Ribeiro de Faria Paiva; Detecção de novidade em fluxos contínuos de dados multiclasse; Supervisor: Andre P.L. Carvalho, Co-Supervisor: João Gama ICMC, USP, Brasil, November 2014.
5. Isabel Maria Perdigão Figueiredo, Modelos Matemáticos em Imunologia e em Investigação e Desenvolvimento, PhD in Applied Mathematics, Supervisor: Bruno Oliveira, Co-Supervisor: Alberto A. Pinto, July 2014.
6. Luís Augusto Correia Roque - Optimization Methods for the Unit Commitment Problem in Electric Power Systems. Programa de Doutoramento em Matemática Aplicada, Universidade do Porto. Supervisor: Prof<sup>ª</sup> Dalila Fontes, Outubro de 2014.
7. Márcia Maria Eugénio Gonçalves, Variações na publicidade em videojogos: efeito ao nível das atitudes, memória e sentimentos de adolescentes e pré-adolescentes, Doutoramento em Ciências Empresariais – FEP, Supervisor: Pedro Quelhas Brito, September 2014.
8. Mohammad Choubdar Soltan Ahmadi, Mathematical Economics Sunspot equilibrium and International trade with tariffs, PhD in Mathematics, Supervisor: Alberto A. Pinto, September 2014.

9. Mohammadreza Valizadeh, Improving the Performance of Text Summarization, Doctoral Program in Computer Science of the Universities of Minho, Aveiro, and Porto (MAPi), Supervisor: Pavel Brazdil, December 2014.
10. Sónia Dias, Linear regression with empirical distributions, PhD in Applied Mathematics, FCUP, Supervisor: Paula Brito, June 2014.
11. Susana Filipa Couto da Silva Salgado de Abreu de Araújo Pinheiro, Dynamics of Holomorphic and Stochastic Differential Equations, PhD in Applied Mathematics, Supervisor: Helena Reis, Co-Supervisor: Alberto A. Pinto, April 2014.

## **MSc (54)**

1. Ana Rita Carvalho Moura De Sousa Online Destination Image Of Porto: A Consumer Based Perspective; Supervisor: Prof.<sup>a</sup> Doutora Maria Catarina de Almeida Roseira; Co-Supervisor: Prof João Manuel Portela da Gama; Master's Dissertation in Marketing, Nov. 2014
2. Ana Rita de Oliveira Marques de Almeida, Tipologia dos Temas Objeto de Interação entre Clientes e Marcas nas Redes Sociais, Mestrado em Marketing, Supervisor: Pedro Quelhas Brito, December 2014.
3. Anbarasu Murugesan, Massage Therapy Business in Portugal, Mestrado em Gestão – FEP; Supervisor: Pedro Quelhas Brito, July 2014.
4. André Valente Rodrigues, Paralelização de algoritmos de fatorização de matrizes para recomendação usando GPU, Tese de Mestrado em Ciência de Computadores, Dezembro 2014.
5. Avelina Maria Moura Palhares Fernando, Análise Fatorial para Variáveis Ordinais, Master in Modeling, Data Analysis and Decision Support Systems, FEP, Supervisor: Paula Brito, November 2014.
6. Carla Barbosa, A dinâmica das promoções de vendas no ponto de venda, IPCA; Supervisor: Prof. Pedro Quelhas Brito; 2014.
7. Carlos Manuel Terroso Casais, Modelo de influência de captação de clientes em comunicações móveis: uma abordagem baseada em ego redes, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão, Supervisor: João Gama, Co-Supervisor: Márcia Oliveira, November 2014.
8. Cátia Sousa; Grau de eficácia das ações promocionais no sector das grandes superfícies retalhistas, MGC-FEP. Supervisor: Prof. Pedro Quelhas Brito. Em co-orientação com a Catarina Delgado; 2014
9. Cristina Andréia Araújo Cerqueira, Multi-Aspect Sentiment Analysis Framework to Analyze Customer Opinions from Free Text, Mestrado em Análise de Dados e Sistemas de Apoio à Decisão, Supervisor: João Gama, December 2014.
10. Daiana Cristina Braimis, O papel da relação Governo-Empresas nos índices de e-Government mundiais, Mestrado em Economia e Administração de Empresas, Supervisor: pedro Campos, November 2014.
11. Daniel José Jesus Araújo Meireles, Previsão de churn em telecomunicações, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão, FEP, Supervisor: João Gama, November 2014.
12. Daniela Filipa Neves Cardeano, Data Mining em aplicações de Desenho Racional de Fármacos, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: Rui Camacho, Co-Supervisor: Nuno Fonseca, July 2014.
13. Diana Marta Gomes Pinto Correia, As Determinantes da Brand Equity no Contexto do Grande Consumo, Mestrado em Marketing - FEP, Supervisor: Amélia Cunha Brandão, Co-Supervisor: Pedro Quelhas Brito, December 2014.
14. Diogo André Rocha Teixeira, A Computational Platform for Gene Expression Analysis, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: Rui Camacho, Co-supervisor: Nuno Fonseca, July 2014.

15. Dóris Daniela Ramos de Sá, Análise Classificatória Conceptual de Dados Simbólicos: Uma abordagem com representação por intervalos, Master in Modeling, Data Analysis and Decision Support Systems, FEP, Supervisor: Paula Brito, December 2014.
16. Eduarda Maria Portela Guimarães de Sousa, Evolução de Redes Ponderadas e Conexas: Análise de uma rede de preferências musicais, Master in Modeling, Data Analysis and Decision Support Systems, FEP, Supervisor: Pedro Campos, Co-supervisor: Paula Brito, November 2014.
17. Evgeniya Shamonova, Selection of a strategic plan using multi-objective optimization, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão, FEP, Supervisor: Dalila Fontes, Co-Supervisor: Márcia Oliveira, November 2014.
18. Fernando Xavier Rocha Correia, SunPet Real-time Sun Exposure Monitorization using Smartphones, Mestrado Integrado em Engenharia de Redes e Sistemas Informáticos, Supervisor: Luís Filipe Guerra Rosado, Co-Supervisor: Luís Torgo, December 2014.
19. Gonçalo Filipe Leites Pereira na empresa GLINTT, Data mining na prevenção de riscos clínicos, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: João Mendes Moreira, Co-supervisor: Rui Camacho, September 2014.
20. Inês Susana Ribeiro Viana, Métodos de Geração de dados sintéticos para a criação de microdados de uso público, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão, Supervisor: Pedro Campos, November 2014.
21. Jéssica Loureiro Custódio, Eventos Promocionais e Comportamento do Consumidor em Centro Comercial, Mestrado em Gestão Comercial, Supervisor: Pedro Quelhas Brito, November 2014.
22. Joana Sofia André Gaspar, Utilização das novas tecnologias na comunicação interpessoal dos pré-adolescentes, Mestrado em Marketing, FEP, Supervisor: Pedro Quelhas Brito, Co-Supervisor: Belém Barbosa, December 2014.
23. João Guilherme Ribeiro de Brito, Ranqueamento de espigas de acordo com a produtividade estimada, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: João Mendes Moreira, February 2014.
24. João Pedro Carvalho da Ponte, Detecção de falhas em Servidores de Video on Demand, Análise de redes de servidores, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: João Mendes Moreira, Co-supervisor: Ricardo Morla (FEUP), July 2014.
25. Johny Gueirez. "Árvores de Decisão Desequilibradas para Detecção de Erros em Transações de Comércio Externo usando Técnicas de Data Mining", 2014. Dissertação do Mestrado Integrado em Engenharia Informática - Faculdade de Engenharia, Universidade do Porto (Co-Supervisor: Rita Ribeiro).
26. Jorge Afonso Nobre Costa, Identificação e quantificação de células oncocíticas em imagens microscópicas, Mestrado Integrado em Engenharia Electrotécnica e de Computadores, Supervisor: Rui Camacho, October 2014.
27. Jorge Miguel Moreira da Silva na empresa Shiftforward, Lda, The Road to Enlightenment: Generating Insight and Predicting Consumer Actions in Digital Markets, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: Hugo José Sereno Lopes Ferreira (FEUP), Co-supervisor: João Mendes Moreira.
28. José Diogo Pereira Freitas, O Impacto do Merchandising nas Vendas - Um Caso de Estudo na Área de Bricolage de um Hipermercado, Mestrado em Gestão Comercial, Supervisor: Pedro Campos, Co-Supervisor: Cristina Soares Pereira, December 2014.
29. José Manuel Mendes Ribeiro, A importância da prospecção de novos clientes no crescimento das organizações B2B, Mestrado em Gestão Comercial - FEP, Supervisor: Pedro Quelhas Brito, April 2014.

30. José Miguel Barbosa Figueiredo, Classificação e identificação do cliente churner - O caso da banca de retalho em Portugal, Mestrado em Gestão Comercial, Supervisor: Pedro Quelhas Brito, December 2014.
31. Liliana Borges Emilio, Classificação Antecipada de séries Temporais, Mestrado em Análise de Dados e Sistemas de Apoio à Decisão, Supervisor: João Gama, November 2014.
32. Liliana Sousa Oliveira, Modelo de Assimilação para Previsão da Produção de Energia Eólica, Mestrado em Análise de Dados e Sistemas de Apoio à Decisão (FEP), Supervisor: João Gama, Co-Supervisor: João Mendes Moreira, November 2014.
33. Luís André Pinto Machado na empresa ADIRA, Definição de indicadores de desempenho e construção de um Data Mart para a ADIRA.SA, Mestrado em Ciência da Informação, Supervisor: João Mendes Moreira, July 2014.
34. Luís Filipe Nascimento da Silva, Process Mining: Application to a Case Study, Mestrado em Análise de Dados e Sistemas de Apoio à Decisão, Supervisor: João Gama, November 2014.
35. Mafalda Sofia Gonçalves dos Santos, Demonstrações de Consumo dos Adolescentes no Facebook - Diferenças entre o sexo Feminino e Masculino, Mestrado em Marketing, Supervisor: Pedro Quelhas Brito, November 2014.
36. Mariana Teixeira do Vale, A Importância da Experiência no Turismo - O Caso do Enoturismo na Região do Douro, Mestrado em Marketing, Supervisor: Pedro Quelhas Brito, December 2014.
37. Nino Rafael da Silva Rocha, Depression Signs Detection through Smartphone Usage Data Analysis, Mestrado Integrado em Engenharia de Redes e Sistemas Informáticos - FCUP, Co-Supervisor: Rita Ribeiro, 2014.
38. Nuno Barriga Tavares, Identificação De Padrões Em Infraestrutura Ferroviária - Via Uma Abordagem Data Mining, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão, FEP, Supervisor: João Gama, Co-Supervisor: Alípio Jorge, December 2014.
39. Nuno Filipe Rodrigues Monteiro, Towards an Agent-Based Artificial Transportation System Test-Bed for Policy Making and Incentive Design, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão, Supervisor: Pedro Campos, Co-Supervisor: Rosaldo Rossetti, November 2014.
40. Paula Oliveira Branco, Re-sampling Approaches for Regression Tasks under Imbalanced Domains, Mestrado em Ciência de Computadores - FCUP, Supervisor: Luís Torgo, Co-Supervisor: Rita Ribeiro, September 2014.
41. Pedro David Teixeira Marques Pinto, Análise dos Custos Diretos Associados ao Tratamento Cirúrgico de Fraturas Intertrocantéricas, Mestrado em Gestão e Economia de Serviços de Saúde, FEP, Supervisor: José Fernando Gonçalves, November 2014.
42. Pedro Manuel Santos Borges na empresa Shiftforward, Lda. Online Advertising: Forecasting and Synthesising Web Activity Based On Historical Data, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: João Mendes Moreira, Co-supervisor: Hugo José Sereno Lopes Ferreira (FEUP).
43. Pedro Miguel Piedade Mota Pereira, Failure Prediction - An Application in the Railway Industry, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão - FEP; Supervisor: João Gama; Co-Supervisor: Rita Ribeiro, November 2014.
44. Ricardo José Moreira Pinho, Metodologias de aprendizagem automática na descoberta de interações entre genes em doenças complexas, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: Rui Camacho, Co-supervisor: Alexsander Couto Alves, July 2014.

45. Rosa Angelina Dias Tavares, O Impacto da Estratégia de Gestão de Stocks no Custo do Capital, Mestrado em Economia e Administração de Empresas, FEP, Supervisor: Dalila Fontes, November 2014.
46. Sara Cristina Valente dos Santos, Portais verticais industriais: o caso PRODUTECH - Expetativas, motivações e criação de valor para a rede da fileira das tecnologias de produção, Mestrado em Marketing - FEP, Supervisor: Pedro Campos, Co-Supervisor: Ana Barros, October 2014.
47. Sara Tavares Nascimento, Blood pressure, anthropometry and adiposity in a paediatric sample, Tese de Mestrado em Nutrição Clínica, Supervisor: Carla Sousa Rego, Co-Supervisor: Bruno Oliveira, June 2014.
48. Simão José Batista Ferreira, O Comportamento dos Consumidores Adolescentes e a Sua Evolução no Facebook, Mestrado em Gestão Comercial, Supervisor: Pedro Quelhas Brito, November 2014.
49. Sofia Leonor Castelo Branco Martins Oliveira, O Impacto Económico dos Blogues de Moda e das "It-Girls" na Indústria da Moda: A realidade Portuguesa, Mestrado em Economia e Administração de Empresas, Supervisor: Pedro Quelhas Brito, November 2014.
50. Tiago Marques Dias da Mota, Identificação e Quantificação de Células Oncoáticas em Imagens Microscópicas, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: Rui Camacho, Co-supervisor: Luisa Pereira, July 2014.
51. Tiago Otto Rodrigues, Previsão de Movimentos em Espaços Comerciais a Partir de Dados de Posicionamento de Clientes, Tese de Mestrado Integrado em Engenharia de Redes e Sistemas Informáticos, Co-Supervisor: Alípio Jorge, July 2014.
52. Vítor Amálio Maia Martins Moreira, A Computational Platform for Assessing the Impact of Alternative Splicing in Cancer, Mestrado Integrado em Engenharia Informática e Computação, Supervisor: Rui Camacho, Co-supervisor: Pedro Gabriel Ferreira, July 2014.
53. Vítor Manuel Cerqueira, Dinâmicas de Comunidades em Redes Sociais de Grande Dimensão, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão, FEP, Supervisor: João Gama Co-Supervisor: Márcia Oliveira, November 2014.
54. Vítor Manuel da Costa, Update Summarization, Mestrado em Modelação, Análise de Dados e Sistemas de Apoio à Decisão - FEP, Supervisor: Pavel Brazdil, December 2014.

## **Models (0)**

## **Pilot facilities (1)**

1. Alípio Jorge; ServRec: Recommender service for music. Active at the site [palcoprincipal.sapo.pt](http://palcoprincipal.sapo.pt).

## **Laboratory prototypes (0)**

## **Other (9)**

1. Conceição Rocha, António Moura and António Guerner Dias. "Estudo preliminar dos níveis de contaminação na envolvente de antigas explorações mineiras subterrâneas na região de Arouca". ECC2014-I Encontro Luso-Galaico de Estatística em Ambiente e Ecologia, Vila Real, Portugal, November 2014.

2. João Mendes-Moreira, PC member, DSIE 2014, Doctoral Symposium in Informatics Engineering, January 24th-25th, 2013, <http://paginas.fe.up.pt/~prodei/dsie13/> (1 paper).
3. João Mendes-Moreira, PC member, The Third International Conference on Advances in Vehicular Systems, Technologies and Applications, Seville, Spain, June 22-26, 2014. <http://www.iaria.org/conferences2014/ComVEHICULAR14.html>.
4. João Mendes-Moreira, PC member, Workshop on Applied Statistics and Data Analysis using Computer Science in conjunction with 9<sup>a</sup> Conferencia Ibérica de Sistemas y Tecnologías de Información, Barcelona, España, June 18-21, 2014. <http://www.aisti.eu/cisti2014/index.php/pt/workshops>.
5. João Mendes-Moreira, PC member, Workshop on Data Streams in conjunction with the 29th Symposium On Applied Computing, Gyeongju, Korea, March 24-28, 2014, <http://www.cs.waikato.ac.nz/~abifet/SAC2014/> (2).
6. Rocha, C., Jorge, A.M., Oliveira, M., Brito, P., Gama, J., Pimenta, C. (2014). "From Entity Extraction to Network Analysis: a Method and an Application to a Portuguese Textual Source". Working Paper # 32, Edições Húmus & OBEGEF - Observatório de Economia e Gestão de Fraude, Porto, Portugal.
7. D. Santos, M. Paulo, C. Brites, J. Mendes-Moreira, D. Gaspar, M.C. Vaz Patto, P. Mendes-Moreira, Portuguese landraces under PPB - environmental and morphological effects on yield, IFOAM Organic World Congress 2014, 2014.
8. José Fernando Gonçalves, A biased random-key genetic algorithm for the Minimization of Open Stacks Problem, ESICUP Meeting - 11th ESICUP Meeting, Beijing, China, Março, 2014.
9. Luis Torgo (2014). An Infra-Structure for Performance Estimation and Experimental Comparison of Predictive Models in R. CoRR abs/1412.0436.