LIAAD Production 2015

2015

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9. Dalila Fontes, Masood Fathi, A Particle Swarm Optimization approach to the part-supplying problem at assembly lines, **ISMP 2015** - International Symposium on Mathematical Programming, Pittsburgh, USA, July 2015.
10. Nuno M. Moniz, Luís Torgo, Combining Social and Official Media in News Recommender Systems, **ECML-PKDD 2015 PhD Session**, Proceedings of the ECMLPKDD Doctoral Consortium, September 2015.
11. Paula Cheira, Paula Brito, A. Pedro Duarte Silva, Factors Analysis of Interval Data, **SDA 2015** - 5th Workshop on Symbolic Data Analysis, Orléans, França, 2015.
12. Paula Cheira, Paula Brito, Factor Analysis of Interval Data, **IASC 2015** - Joint Meeting of IASC-ABE, Satellite Conference for the 60th ISI WSC 2015, Búzios, Brazil, August 2015.
13. Pedro Strecht, João Mendes-Moreira, Carlos Soares, Exploring the impact of ordering models in merging decision trees: a case study in education, Proceedings of the **ECMLPKDD 2015 PhD Session**, Proceedings of the ECMLPKDD Doctoral Consortium, pp. 216-225, September 2015.
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15. Vinícius de A. Souza, Diego F. Silva, Gustavo Batista, João Gama, Classification of Evolving Data Streams with Infinitely Delayed Labels, **ICMLA 2015** – 14th IEEE

International Conference on Machine Learning and Applications, pp. 214-219, Miami, USA, December 2015. DOI: 10.1109/ICMLA.2015.174

16. Vinícius M. A. Souza, Diego F. Silva, João Gama, Gustavo Batista, Data Stream Classification Guided by Clustering on Nonstationary Environments and Extreme Verification Latency, **2015 SIAM International Conference on Data Mining**, pp. 873-881, Vancouver, Canada, April/May 2015. DOI: 10.1137/1.9781611974010.98

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1. Rodrigo R. Coimbra, Pedro Quelhas Brito, Danilo O. Sampaio, A descendência e sua influência na atitude em relação ao país de origem, International Conference on Innovation and Entrepreneurship in Marketing and Consumer Behaviour, Aveiro, 2015.

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1. Adelaide Figueiredo, Fernanda Figueiredo, Monitorização da variabilidade de um processo skew-normal multivariado, JOCLAD 2015 - XXII Jornadas de Classificação e Análise de Dados, Barreiro, Portugal, 2015.

2. Alberto Pinto, Jorge F. Soares, Price Dynamics in Hotelling Model, AMS-EMS-SPM International Meeting, June 2015.

3. Alberto Pinto, Jorge F. Soares, Price Dynamics in Hotelling Model, Euro 2015 - 27th European Conference in Operational Reaserch, 2015.

4. Alberto Pinto, José Martins, Dynamics and vaccination games, PODE 2015 - Progress on Difference Equations, Covilhã, Portugal, June 2015.

5. Alberto Pinto, Mohammad C. Ahmadi, Edson Faria, Flávio Ferreira, Uncertainty costs on an international duopoly with tariffs, AMS-EMS-SPM 2015 International Meeting, June 2015.

6. Bruno M. Oliveira, Alberto Pinto, Athanasios Yannacopoulos, Edgeworthian prices in a random matching economy with selfishness, Euro 2015 - 27th European Conference on Operational Research, February 2015.

7. Bruno M. Oliveira, Alberto Pinto, Isabel Figueiredo, Equilibria in a model of immune responses by T cells, AMS-EMS-SPM 2015 International Meeting, June 2015.

8. João P. Almeida, Alberto Pinto, Anosov diffeomorphisms and tilings, AMS-EMS-SPM 2015 International Meeting, June 2015.

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10. José Martins, Alberto Pinto, A game theoretical analysis of vaccination games, AMS-EMS-SPM 2015 International Meeting, Porto, June 2015.

11. José Martins, Alberto Pinto, An economical model for international expansion with and without making dumping, AMS-EMS-SPM International Meeting, June 2015.

12. José Martins, Alberto Pinto, Dynamics and vaccination games, 6th Workshop DSABNS - Dynamical Systems Applied to Biology and Natural Sciences, Lisbon, February 2015.

13. Luís Filipe Martins, Jim Cushing, Alberto A. Pinto, Amy Veprauskas, A Bifurcation theorem for evolutionary matrix models with multiple evolutionary traits, AMS-EMS-SPM International Meeting, June 2015.

14. Nuno Moniz, Luís Torgo, Socially Driven News Recommendation, CoRR abs/1506.01743, 2015.

15. Paula Branco, Luís Torgo, Rita P. Ribeiro, A survey of predictive modelling under imbalanced distributions, CoRR abs/1505.01658, 2015.

Organization of Conferences (15)
1. 24th International Joint Conference on Artificial Intelligence, Argentina, 2015: Carlos Ferreira – Program Committee Member
2. Advances In Knowledge Discovery and Management - Vol 6, post-proceedings of the AKDM, Springer, 2015: Carlos Ferreira – Program Committee Member
3. AE 2015 - 11th Artificial Economics Conference, 3 to 4 September 2015, FEP, University of Porto, http://ae2015.inescporto.pt/: Pedro Campos - Chair of the Local Organizing Committee
4. BDL 2016 - Workshop on Big Data & Deep Learning in HPC, Porto, Portugal, 30 Junho de 2016: Carlos Ferreira – Workshop Organiser
5. ECML/ PKDD 2015 - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, 7 to 11 September 2015, Porto, Portugal:
   a. Alípio Jorge – Conference & Journal Track Chair
   b. Carlos Ferreira - Local Chair and Program Committee Member
   c. João Mendes Moreira - Local and discovery challenge chair
   d. Ricardo Campos - Publicity Chair
   e. Rita Ribeiro - Local Organization Chair
6. EPIA 2015 - Portuguese Conference on Artificial Intelligence, Knowledge Discovery and Business Intelligence, Coimbra, Portugal, 2015: Carlos Ferreira – Program Committee Member
7. IASE 2015 Satellite Conference - Advances in statistics education: developments, experiences, and assessments - 22 – 24 July 2015, Rio de Janeiro, http://iase-web.org/conference/satellite15/: Pedro Campos - Chair of the International Scientific Committee
8. INForum 2015 - Simpósio de Informática, Covilhã, Portugal, 2015: Carlos Ferreira – Program Committee Member
9. LIAAD Semininars 2015: Carlos Ferreira – Organiser
10. MAG Scholar Global Business, Marketing & Tourism Conference:Porto,Portugal: Pedro Quelhas Brito - Organiser
11. MDM 2016 - 17TH IEEE INTERNATIONAL CONFERENCE ON MOBILE DATA MANAGEMENT, Porto, Portugal, 13 a 16 Junho de 2016: Carlos Ferreira - Local Chair
12. SAC 2015 - Symposium On Applied Computing, Data Streams Track, ACM Symposium on Applied Computing, Gyeongju, South Korea, 2015: Carlos Ferreira – Program Committee Member
13. SIMBig 2015 - 2nd Annual International Symposium on Information Management and Big Data. Track: Web and Text Intelligence, Cusco, Peru, 02 - 04 September: Ricardo Campos – Track Organiser
14. Summer School on Data Sciences for Big Data – Resource Aware Data Mining, 2 to 5 September 2015, Porto, Portugal:
   a. Alípio Jorge –Organiser
   b. Carlos Ferreira – Organiser
   c. Rita Ribeiro - Organiser
15. The challenges and obstacles in improving statistical literacy, In 60th World Statistics Congress, Rio de Janeiro, Brasil, 26-31 de Julho, 2015, Organisers: Reija Helenius, Pedro Campos, Steve MacFeely: Pedro Campos - Session organizer

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1. A. Pedro Duarte Silva, Peter Filzmoser, Paula Brito, Outlier Detection in Interval Data, **SDA 2015** - 5th Workshop on Symbolic Data Analysis, Orléans, França, 2015.

2. A. Pedro Duarte Silva, Peter Filzmoser, Paula Brito, Outlier Detection in Interval Data, **SPE 2015** - XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, Portugal, 2015.
3. Adelaide Cerveira, Optimal Cable Design of Wind Farms, 2º Encontro do Centro de Investigação Operacional, Universidade de Lisboa, Portugal, 2015.
4. Ana C. Torres, Jorge M. S. Valente, Amélia Lopes, Ana Mouraz, What catches the eye in a class observation? - Lecturers' perspectives in a program of multidisciplinary peer observation of teaching, **ECER 2015** – European Educational Research Conference, Budapest, Hungria, 7-11 September 2015.
5. Cláudia Dias, Paula Brito, Conceição Nunes Rocha, Por Dentro das Notícias: Análise de Dados Textuais, **SPE 2015** - XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, Portugal, October 2015.
6. Conceição N. Rocha, Paula Brito, Alípio Jorge, Classificação de Redes Sociais: Uma Abordagem baseada em Distribuições, **SPE 2015** - XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, Portugal, 2015.
7. Jeffrey E. Schaller, Jorge M. S. Valente, Heuristics for Scheduling Parallel Machines to Minimize Weighted Squared Tardiness, **INFORMS 2015** Annual Meeting, Philadelphia, E.U.A., 1-4 November 2015.
8. José Fernando Gonçalves, A biased random-key genetic algorithm for the unconstrained unequal area facility layout problem, 12th ESICUP Meeting (The EURO Special Interest Group on Cutting and Packing), Portsmouth, UK, March 2015.
9. José Fernando Gonçalves, A BRKGA for the unequal area facility layout problem. **EURO 2015** - 27th European Conference on Operational Research, Glasgow, Scotland, July 2015.
10. Paula Brito, Galois Connections and Conceptual Clustering for Distributional Data, Invited talk at **ODAM 2015** - Olomoucian Days of Applied Mathematics, Olomouc, Czech Republic, May 2015.
11. Paula Cheira, Paula Brito, A. Pedro Duarte Silva, Análise Fatorial de Dados Intervalares, **SPE 2015** - XXII Congresso da Sociedade Portuguesa de Estatística, Olhão, Portugal, 2015.
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13. Sónia Dias, Paula Amaral, Paula Brito, Linear Discriminant Analysis for Interval and Histogram Data, **SDA 2015** - 5th Workshop on Symbolic Data Analysis, Orléans, France, November 2015.

Keynote Speaker (1)
1. João Gama, **Keynote Speaker 2:** Real Time Data Mining, **EAIS 2015** - IEEE International Conference on Evolving and Adaptive Intelligent Systems, Douai, France, December 2015. DOI: 10.1109/EAIS.2015.7368772

Tutorials (1)
1. Luís Moreira Matias, Ricardo J. Bessa, Josif Grabocka, "Eureka!" - How to build accurate predictors for real-valued outputs from simple methods, **ECML-PKDD 2015** - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Database, Porto, Portugal, September 2015.

Projects (6)

1. MAESTRA: Learning from Massive, Incompletely annotated, and Structured Data; European Union Project (PUE-FP7); Ref. 612944
2. MARINEYE: A prototype for multitrophic oceanic monitoring; European Union (PUE-DIV); Ref. PT02_Aviso4_0017
3. SEA: Knowledge transfer project - private sctor; SERV-NAC; Ref. INESCP-SERV-56/14
4. SIBILA– Towards Smart Interacting Blocks that Improve Learned Advice; North Portugal Regional Operational Programme (ON.2 – O Novo Norte), under the National Strategic Reference Framework (NSRF), through the European Regional Development Fund (ERDF), and by national funds, through the Portuguese funding agency, Fundação para a Ciência e a Tecnologia (FCT) – (PN-PICT); Ref. NORTE-07-0124-FEDER-000059
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Thesis

PhD (7)

1. António José Galrão Ramos, Analysis of cargo stability in container transportation, Programa Doutoral em Engenharia Industrial e Gestão, Co-Supervisor: José Fernando Gonçalves. July 2015
2. Hadi Fanaee Tork, Tensor-based Event Detection, PhD em Informática – FCUP. Supervisor: João Gama, November 2015
3. Jasmina Stoyanova, Interactive user experience –Effects of augmented reality on consumer psychology and behavior, Programa Doutoral em Media Digitais – FEUP. Supervisor: Pedro Quelhas Brito. April 2015
4. Joaquim Fernando Monteiro Pratas, Conteúdos de comunicação e de posicionamento das marcas destino turístico em Brochuras e folhetos turísticos, PhD em Ciências Empresariais – FEP. Supervisor: Pedro Quelhas Brito. June 2015
5. Luís Moreira Matias, On Improving Operational Planning and Control in Public Transportation Networks Using Streaming Data: A Machine Learning Approach, Programa Doutoral em Engenharia Informática, Supervisor: João Mendes Moreira, Co-Supervisor: João Gama. May 2015
6. Umesh Ramchandra Raut, Analysis of brand resonance amongst young consumers with reference to select product categories, PhD em Gestão no âmbito do acordo de Co-tutela com a Savitribai Phule Pune University – India. Supervisor: Pedro Quelhas Brito; Co-Supervisor: Prafulla A. Pawar. November 2015
7. Vera Cristina Fontes Teixeira Vale, A nostalgia de alimentos no contexto de uma experiência gastronómica, PhD em Ciências Empresariais – FEP. Supervisor: Pedro Quelhas Brito. September 2015

MSc (44)

1. Afonso Neves Caldas, Desenvolvimento de um Sistema de Apoio à Decisão para a Manutenção Preditiva dos ativos de uma Subestação Elétrica, MIEIC (FEUP), Supervisor: João Mendes Moreira, July 2015

2. Alessandra Mesquita Costa Mongiovi, A imagem que o turista brasileiro tem sobre Portugal como destino turístico, MSc em Marketing, Supervisor: Pedro Quelhas Brito, November 2015

3. Ana Catarina Barbosa Forte, Análise de comentários de clientes com o auxílio a técnicas de Text Mining para determinar o nível de (in)satisfação, MADSAD (FEP), Supervisor: Pavel Brazdil, Co-Supervisor: João Gama, November 2015

4. Ana Luísa Lameira Ferreira, Modelo de identificação de Churn Rotacional nas comunicações móveis, MADSAD (FEP), Supervisor: João Gama, Co-Supervisor: Márcia Oliveira, November 2015

5. Ana Margarida Moreira da Silva, Modelos Preditivos Aplicados ao Retalho, MADSAD (FEP), Supervisor: João Gama, Co-Supervisor: Rita Ribeiro, June 2015

6. Ana Marisa Ferreira Diegues, e-commerce em saúde: big data e novas oportunidades de negócio - estudo sobre a telemedicina e venda de produtos de saúde na Wells, MSc em Gestão e Economia de Serviços de Saúde (FEP), Supervisor: José Fernando Gonçalves, November 2015

7. Andreia Patrícia Ferreira Sousa, Um Algoritmo Genético para o Planeamento de Rotas com Considerações Ambientais, MADSAD (FEP), Supervisor: Dalila Fontes, Co-Supervisor: José Fernando Gonçalves, November 2015

8. Carlos Miguel da Cunha Rodrigues, Predictive Modeling using Railway Event Alarms System, MIEEC (FEUP), Supervisor: João Mendes Moreira, July 2015.

9. Catarina Reis Azevedo da Silva, A matching model of R&D cooperation, MSc em Economia (FEP), Supervisor: Isabel Mota, Co-Supervisor: Pedro Campos, Dezembro 2015

10. Cátia de Jesus Coimbra Ferreira, Análise de Padrões Sequenciais nos Mercados Financeiros, MADAD (FEP), Supervisor: João Gama, Co-Supervisor: Carlos Ferreira, November 2015

11. Cláudia Sofia Vieites Dias, Análise de Dados Textuais: Análise de Correspondências e Classificação, MADSAD (FEP), Supervisor: Paula Brito, December 2015

12. Daniel Fernando Alves da Silva, Geração Sintética de Microdados utilizando algorimos de Datamining MADSAD (FEP), Supervisor: Pedro Campos, Co-Supervisor: Pavel Brazdil, October 2015

13. Daniela Sofia Martins Lopes, Web Mining aplicado ao Marketing Digital e na usabilidade de um website: Estudo de caso numa aplicação de SaaS, MADSAD (FEP), Supervisor: Pavel Brazdil, Co-Supervisor: Pedro Quelhas Brito, November 2015

14. Diogo Fernando Barroso Portela Ferreira da Silva, ViDi Stat, Supervisor: Carlos Ferreira, Co-Supervisor: Ângelo Martins, MSc em Engenharia Informática, ISEP, 2015

15. Edgar Bruno Gomes Rocha, Análise de redes de confiança na mediação de seguros: o papel das ligações fortes no sucesso das vendas, MSc em Gestão Comercial (FEP), Supervisor: Pedro Campos, November 2015

16. Elisabete dos Santos Alves, Impacto do Encerramento da Urgência Básica de Valongo na Afluência ao Serviço de Urgência do Hospital de São João e Cuidados de Saúde Primários de Valongo, MSc em Gestão e Economia de Serviços de Saúde (FEP), Supervisor: Jorge Valente, November 2015

17. Geslie Fernandes Costa, Previsão Multi-Passos em Séries Temporais: Estratégias Clássicas e de Aprendizagem Automática, MADSAD (FEP), Supervisor: Eduarda Silva, Co-Supervisor: João Gama, November 2015

18. Isabel Sofia Amorim Crista, A Contratação de Profissionais, na Área da Saúde, Através do Outsourcing e Trabalho Temporário, MSc em Gestão Comercial (FEP), Supervisor: Susana Oliveira, Co-Supervisor: Pedro Campos, December 2015
19. João Alexandre Freitas Luís, Análise de Redes Sociais Aplicada a uma empresa de Retalho, MADSAD (FEP), Supervisor: João Gama, November 2015
20. Jorge Fernando Soares, Dynamics in Hotelling based Models, MSc em Matemática (FCUP), Supervisor: Alberto A. Pinto, June 2015
21. Juliana Filipa da Rocha Costa, A Cauda Longa: A sua existência no mercado de retalho Online Português, MSc em Economia e Administração de Empresas (FEP), Supervisor: Pedro Campos, Co-Supervisor: Alexandra Ramos, November 2015
22. Luísa Raquel Ribeiro Monteiro, Ecologia e relação diâmetro-densidade em povoamentos de sobreiro (Quercus suber l.), MSc em Engenharia Florestal (UTAD), Supervisors: Adelaide Cerveira e Teresa Fonseca, October 2015.
23. Mafalda Soares Gamelas, Hotel Guests' Participation on the Facebook Platform of International Hospitality Brands – Complaint Analysis and Customer Satisfaction, MSc em Gestão, Supervisor: Pedro Quelhas Brito, July 2015
24. Maria Raquel de Carvalho Costa, Heuristics for a Permutation Flowshop Scheduling Problem with Weighted Squared Tardiness, MADSAD (FEP), Supervisor: Jorge Valente, November 2015
25. Mariana Rafaela Oliveira, Propositional and Relational Approaches to Spatio-Temporal Data Analysis. MCC (FCUP), Supervisor: Luís Torgo, Co-Supervisor: Vítor Santos Costa, December 2015
26. Mário Lino Ferreira dos Remédios da Silva Lima, Valor da marca - Um Estudo Baseado no Consumidor do Ramo Automóvel Português, MSc em Gestão Comercial (FEP), Supervisor: Amélia Brandão, Co-supervisor: Pedro Campos, November 2015
27. Marta Carolina Madeira Bebiano, Algoritmos incrementais para previsão de variáveis quantitativas usando dados de chamadas móveis, MIEIC (FEUP), Supervisor: João Mendes Moreira, July 2015
28. Marta Sofia Andrade Gonçalves, Controlo e Supervisão Parental na Internet: O Caso dos Pré-Adolescentes, MSc em Gestão de Serviços, Supervisor: Pedro Quelhas Brito, July 2015
29. Marta Sofia Pereira Madanços, Estratégias de preços na indústria hoteleira e a sua influência na receita de alojamento, MSc em Economia (FEP), Supervisor: Helder Valente, Co-Supervisor: Pedro Campos, October 2015
30. Patrícia Alexandra Cordeiro Veiga, Otimização da performance de atendimento numa receção de imagiologia, MSc em Gestão e Economia de Serviços de Saúde (FEP), Supervisor: José Fernando Gonçalves, November 2015
31. Patrícia Alexandra Lopes Antunes, Sentiment Analysis in Financial News, MADSAD (FEP), Supervisor: Pavel Brazdil, November 2015
32. Paula Alexandra Faria Soares, Comportamento do Consumidor de Vestuário em Centros Comerciais Outlet, MSc em Gestão Comercial (FEP), Supervisor: Sandra Gomes, Co-Supervisor: Pedro Campos, December 2015
33. Pedro Filipe Henriques Marques, Recomendação de clientes em ambiente de health-clubs: o papel dos sistemas de incentivo, MSc em Gestão Comercial, Supervisor: Pedro Quelhas Brito, November 2015
34. Pierre René Quintaneiro, Segmentação de Mercado pela Técnica de Clustering e Modelo RFM, MSc em Economia e Administração de Empresas (FEP), Supervisor: Pedro Campos, November 2015
35. Renato da Silva Fernandes, An Agent-Based Approach of the Portuguese Population Projection and the Social Security Sustainability, MSc em Engenharia Matemática (FCUP), Supervisor: Pedro Campos, Co-supervisor: Ana Rita Gaio, September 2015

36. Ricardo Jorge Alves de Oliveira, Deteção de Indícios de Fraude na Indústria do Retalho, MADSAD (FEP), Supervisor: João Gama, Co-Supervisor: Rita Ribeiro, November 2015
37. Rúben Emanuel Moutinho Meireles, Digital Piracy: Factors that Influence the Intention to Pirate, MSc em Economia e Administração de Empresas (FEP), Supervisor: Pedro Campos, November 2015
38. Rui Fernando Lima Dias, Monitoring Evolving Stock Networks, MADSAD (FEP), Supervisor: João Gama, Co-Supervisor: Carlos Ferreira, November 2015
39. Rui Filipe da Costa Moreira, Previsão Probabilística dos Preços de Energia Elétrica do Mercado Ibérico de Eletricidade, MADSAD (FEP), Supervisor: Ricardo Bessa, Co-Supervisor: João Gama, November 2015
40. Sónia Alexandra Carvalho Teixeira, Flocking Behavior e Alianças Estratégicas, MADSAD (FEP), Supervisor: Pedro Campos, Co-Supervisor: Catarina Roseira, November 2015
41. Susana Maria Rodrigues da Cruz, O Impacto Económico do Programa de Intervenção de Enfermagem de Gestão da Doença na DPOC do Centro Hospitalar do Porto – Hospital Santo António, 2015, MSc em Gestão e Economia de Serviços de Saúde (FEP), Supervisors: Jorge Valente e Miguel Padilha, November 2015
42. Tiago Miguel Ferreira das Neves Salgado, In-store Order Picking Routing: A Biased Random-Key Genetic Algorithm Approach, MADSAD (FEP), Supervisor: Dalila Fontes, Co-Supervisor: José Fernando Gonçalves, December 2015
43. Vítor Hugo Magalhães Moreira, ViDi Stat, Supervisor: Carlos Ferreira, Co-Supervisor: Ângelo Martins, MSc em Engenharia Informática, ISEP, 2015
44. Vítor Manuel de Sousa Alves, Análise da confiança no sucesso das relações B2B: O caso dos sistemas de armazenamento automático, MSc em Gestão Comercial, Supervisor: Maria José Felício, Co-supervisor: Pedro Campos, November 2015

Models (1)

1. Sónia Alexandra Carvalho Teixeira, AllFlock: modelo de comportamento em bando em alianças estratégicas, com Pedro Campos e Catarina Roseira (FEP).