LIAAD Production (2008-2013)

28th Jan 2014

2013

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2. Pedro Rodrigues, Mykola Pechenizkiy, Joao Gama, Proceedings of the 26th IEEE International Symposium on Computer-Based Medical Systems, Junho, 2013.

3. Simon Fischer, Ingo Mierswa, João Mendes Moreira, Carlos Soares, Proceedings of the 4th RapidMiner Community Meeting and Conference (RCOMM 2013), RCOMM 2013 - 4th RapidMiner Community Meeting and Conference, ISBN 978-3-8440-2145-5, Porto, Portugal, Agosto, 2013.

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1. Adelaide Figueiredo, Paulo Gomes, Classificação de variáveis definidas na hiperesfera através de um modelo de mistura, Estatística: Novos Desenvolvimentos e Inspirações, pp.137-151, 2013.

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3. Julian D. M. Castaño, Maria R. A. Moreira, Paulo Amaral Sousa, Raquel F. Ch. Meneses, Theory of Constraints in the Service Sector: Characterization for Banking and Analysis of the Factors Involved in Its Adoption, Lecture Notes in Business Information Processing, vol.143, pp.58-72, 2013.

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6. Rui Sarmento, Tiago Cunha, João Gama, Albert Bifet, Large Scale Social Networks Analysis, JOCLAD 2013, Guimarães, Portugal
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4. Renato Araújo Soeiro, Alberto Pinto, A social Bayesian game, UECE in Game Theory - UECE Lisbon Meetings in Game Theory and Applications, Lisboa, Portugal, Novembro, 2013.

Organization of Conferences (22)

1. Alberto Pinto, * Presidente do Comité Organizador e Científico: (http://sqig.math.ist.utl.pt/cim/mpe2013/)
2. Alberto Pinto, Conferência e Escola Avançada: DGS II 2013 – International Conference and Advanced School Planet Earth, Dynamics, Games and Science II, Portugal, 28 August to 6 September 2013, Fundação Calouste Gulbenkian e ISEG- UTL
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5. Dalila Fontes, ECTA 2013 - 5th International Conference on Evolutionary Computation Theory and Applications, Vila Moura, Portugal, September 2013.
6. João Gama, ACM- Symposium Applied Computing - Data Streams Track
7. João Gama, Ubiquitous Data Mining, in conjunction with IJCAI 2013, Beijing
8. João Mendes Moreira, 4th RapidMiner Community Meeting and Conference (RCOMM 2013), Porto, Portugal, August 27th-30th, 2013: Program and local chair
9. João Paulo Almeida, * Conferência e Escola Avançada: MECC 2013 – International Conference and Advanced School Planet Earth, Mathematics of Energy and Climate Change, Portugal, Lisbon 21-28 March 2013, Fundação Calouste Gulbenkian eFac. Ciências Univ. Lisboa. (http://sqig.math.ist.utl.pt/cim/mpe2013/)
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11. João paulo Almeida, IO2013 – XVI Congresso da APDIO: Instituto Politécnico de Bragança, Bragança, junho 3-5, 2013 (http://www.io2013.ipb.pt/)
12. João Paulo Almeida, Thematic Session: Dynamics, Modelling and Optimisation; in DGS II 2013 – International Conference Planet Earth, Dynamics, Games and Science II, Portugal, 28 August to 6 September 2013, Fundação Calouste Gulbenkian
13. João Paulo Almeida, Thematic Session: Sustainability and new energies; in MECC 2013 – International Conference Planet Earth, Mathematics of Energy and Climate Change, Portugal, Lisbon 21-28 March 2013, Fundação Calouste Gulbenkian.
14. José Martins, Thematic Session: Biomathematics; in DGS II 2013 – International Conference Planet Earth, Dynamics, Games and Science II, Portugal, 28 August to 6 September 2013, Fundação Calouste Gulbenkian.

15. Nuno Escudeiro, Chair of the thematic session Promoting employability in the global market hosted by the CAREER EU 2013 conference, Poznan, Poland, May 2013
16. Nuno Escudeiro, Text mining seminar, Summer School IP COmVICS – Computer Vision and Intelligent Computer systems, Brno University of Technology, Czech Republic, 24 June to 4 July 2013
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18. Pedro Pereira Rodrigues, IEEE CBMS 2013, Special track on Data Streams - ACM SAC 2013
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22. Rui Camacho, Track on Computational Methods in Bioinformatics and Systems Biology (CMBSB 12) in the 16th Portuguese Conference on Articial Intelligence (EPIA 13)

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Computational Applications (6)

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3. Ricardo Campos, GTE-Cluster
   [http://wia.info.unicaen.fr/GTEAspNetFlatTempCluster_Server]
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6. Duarte Silva, A.P.; Brito, P. MAINT.Data: Modeling and Analyzing Interval data. R Package, available at CRAN.

Thesis

PhD (11)

1. Abedelrahim Mousa, Applications of Mathematics and Game Theory to Industrial Organization, Programa Doutoral em Matemática Aplicada, Faculdade de Ciências da Universidade do Porto, Supervisor: Alberto Pinto, May 2013.
2. António Jorge do Nascimento Morais (FCT Grantee), docente da Universidade Aberta, "A Multi-Agent approach for Web Adaptation", PRODEI, Faculdade de Engenharia, Universidade do Porto, Supervisor: Alípio Jorge, finished in 2013.
3. Brett Mylo Drury, A Text Mining System for Evaluating the Stock Market, Doutoramento em Informática, Supervisor: Luís Torgo, Mach 2013

4. Bruno Nogueira, Hierarchical semi-supervised confidence-based active clustering and its application to the extraction of topic hierarchies from document collections, PhD Thesis, U. São Paulo/U.Porto, co-supervised by Alípio Jorge with Solange Rezende (USP), 2009 – December 2013.
5. Célia Talma Martins de Pinho Valente Oliveira Gonçalves, A Tool for Text Mining in Molecular Biology Domains, Programa Doutoral em Engenharia Informática, Co-orientação: Rui Camacho, July 2013
6. Mário Amado Alves, (FCT grantee), "Adaptive Hypertext: The shattered document approach", Faculdade de Ciências, Universidade do Porto. Supervisor: Alípio Jorge, finished in 2013.
7. Marta Soa Rodrigues Monteiro, Ant Colony Optimization Algorithms to solve Nonlinear Network Flow Problems, Doutoramento em Ciências Empresariais, FEP, Universidade do Porto. Supervisor: Dalila Fontes, Maio 2013.
8. Orlando Shigueo Ohashi Junior, Spatio-Temporal Prediction Methods, Doutoramento em Informática, Supervisor: Luís Torgo, July 2013
9. Petr Kosina, Decision Rule Learning from Evolving data Streams, MazarykUniversity, Czeck Republic, Dez. 2013, Supervisor: João Gama
10. Ricardo Nuno Taborda Campos (FCT Grantee), Disambiguating Implicit Temporal Queries for Temporal Information Retrieval Applications, Faculdade de Ciências da Universidade do Porto, Supervisor: Alípio Jorge, finished 2013.
11. Rosane Maria Maei Vallim, Mineração de Fluxos Contínuos de Dados para Jogos de Computador, Co-orientação: João Gama e Prof. André de Carvalho, Universidade de S.Paulo, Brasil.

MSc (35)
1. Ana Cristina Garcia Charters Ribeiro, Implementação da Filosofia LEAN na Gestão dos Serviços de Saúde: O Caso dos Centros de Saúde da Região Norte, Mestrado em Gestão de Serviços, FEP, Supervisor: Paulo Sousa joint supervision with Maria Rosário Moreira. October 2013
2. Ana da Conceição Saraiva e Sousa Tavares, Análise Custo-Utilidade do Trastuzumab em Doentes com Carcinoma Gástrico e Esofago-Gástrico HER2+ em Estádios IV e Localmente Avançado, Mestrado em Gestão e Economia de Serviços de Saúde, FEP, Supervisors: Lúcio Lara Santos, Jorge M. S. Valente, 2013
3. Ana Filipa Rocha da Silva, Análise Económica de Custo-Utilidade Aplicada ao Tratamento do Esófago de Barret, Mestrado em Gestão e Economia de Serviços de Saúde, FEP, Supervisor: Jorge M. S. Valente, 2013
4. Bruno Santos, Optimization of the graphical interface of health information systems using information from log data, Mestrado em Informática Médica (FMUP/FCUP), Supervisor: Pedro Pereira Rodrigues, 2013
5. Catarina Lourenço Soares, Analysis of European Countries' Vulnerabilities through Statis Methodology, Mestrado em Economia, FEP, Supervisor: Adelaide Figueiredo, November 2013
6. Daniela Oliveira Baía Soares Vasco, Identificação de Anomalias Contextuais, MadSad, FEP, Supervisor: João Gama, 2013
7. Eduardo Oliveira, Valorização da cápsula endoscópica na observação do instestino delgado: avaliação de um novo protocolo de atuação apoiado por um sistema informático, Mestrado em Informática Médica (FMUP/FCUP), Supervisor: Pedro Pereira Rodrigues,
8. Emanuel Silva, Athletes medical exams: electronic Periodic Health Evaluation management system, Mestrado em Informática Médica (FMUP/FCUP), Supervisor: Pedro Pereira Rodrigues, 2013
9. Joana Margarida Duarte Gomes, A Dinâmica da Comunicação informal numa organização sob a ótica da análise de redes sociais, MadSad, FEP, Supervisor: João Gama, 2013.

10. João Babo Silva, Relatório de Estágio - Departamento Fiscal da PwC - Preços de Transferência, MADSAD, Supervisor: Pavel Brazdil, 2013
11. João Passos Coelho, Dinâmica do Carbono na videira, Mestrado em Engenharia Matemática, FCUP, Supervisor: Alberto Pinto, Co-supervisor: Paulo Beleza Vasconcelos (FEP), October 2013
12. José Guilherme Leandro Pereira dos Santos, Drivers e inibidores do e-commerce: determinação da sua importância na performance exportadora, Mestrado em Economia e Gestão Internacional, FEP, Supervisor: Paulo Sousa Joint supervision with Maria Rosário Moreira, November 2013
13. José Manuel Oliveira da Silva, Partilha de histórico clínico, MIEIC, Supervisor: João Mendes Moreira, 2013
14. Liliana Leite, Refining pre-polysomnography suspicion of Obstructive Sleep Apnea: logistic and Bayesian analysis of clinical factors, Mestrado em Informática Médica (FMUP/FCUP), Supervisor: Pedro Pereira Rodrigues, 2013
15. Lilibeth Manuela Ribeiro de Pinho, Avaliação Económica do Sistema de Registo de Consumo Clínico Online do Bloco Operatório Central do Centro Hospitalar São João – Pólo Porto E.P.E, Mestrado em Gestão e Economia de Serviços de Saúde, FEP, Supervisor: Jorge M. S. Valente, 2013
16. Lúcio Verdial, Aplicação de Aprendizagem Ativa em Tarefas de Extração de Opinião, MSc. Computer Science, U. Porto, Supervisor: Alípio Jorge, July 2013.
17. Luís Filipe da Silva Martins, Optimal Stochastic Control of Life Insurance and Investment in a Financial Market, MSc in Mathematics, specialization in Statistics and Probability, FCUP, Supervisor: Alberto Pinto, October 2013
18. Luís Monteiro Costa, Previsão de Energia Eólica, MadSad, FEP, Supervisor: João Gama, 2013.
19. Magda Daniela Marques Corgas de Andrade, The impact of internal managerial factors on the export performance of SMEs, Mestrado em Economia e Gestão Internacional, FEP, Supervisor: Paulo Sousa Joint supervision with Maria Rosário Moreira, November2013
20. Margarida David, Accessibility in Emergency Department to Patients Medication History, Mestrado em Informática Médica (FMUP/FCUP), Supervisor: Pedro Pereira Rodrigues, 2013
21. Maria João Alves Lima: Classificação Automática de Emails, MADSAD, Supervisor: P.Brazdil, co-supervisor: João Gama
22. Maria José Gomes Pedroto, Estimação de Massa em Energia Eólica, MadSad, FEP, Supervisor: João Gama, 2013.
23. Maria Nelson de Lemos Correia, Ferramentas para Análise de Posicionamento de Pessoas em Centros Comerciais, MSc. Computer Science, U. Porto, October 2013. Supervisor Roberto Colazingari (company AroundKnowledge), Co-Supervisor: Alípio Jorge
24. Mendes, H., "Similaridade Documental e Detecção de Plágio", Faculdade de Engenharia, UBI, Supervisor: João Paulo Cordeiro, Novembro 2013.
25. Odair Roberto Santiago Amarante Oliveira, Tradutor da Lingua Gestual Portuguesa. Modelo de tradução bidirecional, Inst. Superior de Engenharia do porto, Supervisor: Nuno Escudeiro, November 2013
26. Pedro Miguel Mendes Amaro, Empreendedorismo: Modelo baseado em agentes no processo de criação de novas empresas, MADSAD, Supervisor: Pedro Campos, co-supervisor: Pavel Brazdil
27. Pedro Samuel Amaro Coelho, Multi-Topic Sentiment Analysis, Mestrado em Ciência de Computadores, Supervisor: Luís Torgo, October 2013
28. Raquel Correia Gonçalves Morte, Modelo de apoio à decisão multicritério para a avaliação de desempenho de motoristas numa empresa portuguesa de transporte rodoviário, Mestrado em Modelação, Analise de Dados e Sistemas de Apoio a Decisão, FEP, Supervisor: Dalila Fontes, November 2013

29. Ricardo Gabriel da Silva Graça, Early Parkinson Detection, MIEIC, Supervisor: João Mendes Moreira, 2013.
30. Rui Portocarrero Sarmento, Large Scale Social Network Analysis, MadSad, FEP, Supervisor: João Gama, 2013.
31. Tatiana Maria Correia Monteiro, Relationship between Firm Size and Export Performance: overtaking inconsistencies, Mestrado em Economia e Gestão Internacional, FEP, Supervisor: Paulo Sousa Joint supervision with Maria Rosário Moreira]; November 2013
32. Tiago David Soares da Cruz Loureiro, Application of Machine Learning techniques on the Discovery and annotation of Transposons in genomes Projecto do Mestrado Integrado em Engenharia Informática e Computação (MIEIC), Supervisor_ Rui Camacho, co-supervisor: Nuno Fonseca, July 2013
33. Tiago Filipe Pacheco Pereira, Redes Sociais e Classificação Conceptual: Abordagem Complementar para um Sistema de Recomendação de Co-autorias, Master in Data Analysis and Decision Support Systems, Faculty of Economics, University of Porto, Supervisor: Maria Paula Brito, 2013.
34. Vitor Hugo Pereira Moreira da Silva, Mapeamento Automático em Bases de Dados Usando Data Mining, MadSad, FEP, Supervisor: João Gama, 2013
35. Yevheniya Nikolaevna Vladimirova, Internationalization and the dynamics of product adaptation, Mestrado em Economia e Gestão Internacional, FEP, Supervisor: Paulo Sousa joint supervision with Maria Rosário Moreira, November 2013

Models (4)
1. Pedro Pereira Rodrigues, log.net: Modelo de redes Bayesianas para previsão da visualização de relatórios clínicos (Relatório OPTIM, 2013), com Diana Rocha, Cláudia Dias e Ricardo Correia (FMUP)
2. Pedro Pereira Rodrigues, log.surv: Modelo de análise de sobrevivência para previsão da visualização de relatórios clínicos (Relatório OPTIM, 2013), com Diana Rocha, Cláudia Dias e Armando Teixeira-Pinto (FMUP)
3. Pedro Pereira Rodrigues, osa.net: Modelo de redes Bayesianas para diagnóstico da apneia obstrutiva do sono baseado em factores clínicos (Leite, 2013), com Liliana Leite e Cristina Santos (FMUP)
4. Pedro Pereira Rodrigues, qolicu.net: Modelo de redes Bayesianas para prognóstico da qualidade de vida após cuidados intensivos, com Cláudia Dias, Cristina Granja e Altamiro Costa Pereira (FMUP) e João Gama (FEP)

Pilot facilities (4)
1. Alípio Jorge, SREC: Recommendation Service in production for company Ubbin Labs. Maintenance in 2013.
2. Pedro Pereira Rodrigues, eAMD: Sistema de gestão electrónica de exame médico-desportivo e avaliação remota de electrocardiogramas (Silva, 2013) http://www.eamd.org/, com Emanuel Anjos Silva e José Ramos (Clínica de Gondomar), em avaliação piloto para prestação de serviços pela Clínica de Gondomar.
3. Pedro Pereira Rodrigues, OPTIM GUI: Módulo de optimização de interface grá co nas listagens de relatórios num registo virtual de saúde (Santos, 2013) http://optim.gim.med.up.pt/, com Bruno Santos e Ricardo Correia (FMUP), em avaliação piloto em instituição de saúde em parceria com VirtualCare.
4. Pedro Pereira Rodrigues, SAGi: Sistema de apoio à decisão clínica no controlo da glicemia em doentes críticos (Ferreira et al, 2012), com Anselmo Ferreira e

Cristina Granja (FMUP), em avaliação piloto em instituições de saúde em parceria com B-Simple.

Laboratory prototypes (2)

1. Pavel Brazdil - Sistema de sumarização automática de documentos DensGSD and DensQS.
2. Rita P. Ribeiro - UBA: Utility-based Algorithms

Other (8)

1. Adelaide Figueiredo, Membro do comité da conferência internacional "World Congress on Engineering (WCE)", 2013
2. Adelaide Figueiredo, Membro da comissão científica das XX Jornadas de Classificação e Análise de Dados, 2013.
3. Adelaide Figueiredo, Membro do Grupo de Trabalho "ERCIM: Computational and Methodological Statistics", membro da equipa especializada: General Methodological Statistics (GMS).
4. Adelaide Figueiredo, Presidente do Conselho Fiscal da Sociedade de Classificação e Análise de Dados
5. Alberto Pinto é presidente do Centro Internacional de Matemática (CIM), desde 2011 (www.cim.pt)
6. Nuno Escudeiro, Member of the International Program Committee of the New Horizons in Industry, Business and Education conference, NHIBE 2013, Chania, Crete, Greece, August 2013
7. Nuno Escudeiro, Member of the International Program Committee of the 24th European Association for Education in Electrical and Information Engineering (EAEEIE) Annual Conference, Chania, Crete, Greece, May 2013
8. Nuno Escudeiro, Member of the International Scientific Committee of the Communication, Electromagnetics and Medical Application conference, CEMA 2013, Sofia, Bulgaria, October 2013

2012

Publications

Articles in international journals (44)

1. A. Freitas, T. Silva-Costa, F. Lopes, I. Garcia-Lema, A. Teixeira-Pinto, Pavel Brazdil, A. Costa-Pereira, Factors influencing hospital high length of stay outliers, BMC HEALTH SERVICES RESEARCH, Vol. 12 (265), AUG 20 2012 [ISI]
2. A. Singh, Jorge M. S. Valente, M. R. A. Moreira, Hybrid Heuristics for the Single Machine Scheduling Problem with Quadratic Earliness and Tardiness Costs, International Journal of Machine Learning and Cybernetics, Vol. 3, pp. 327-333.
3. Adelaide Figueiredo, F. Figueiredo, N. Monteiro, O. Straume, Restructuring in privatised firms: a Statis approach, Structural Change and Economic Dynamics, Vol. 23, pp. 108-116.
4. Adelaide Figueiredo, Goodness-of-fit for a concentrated von Mises-Fisher distribution, Computational Statistics, Vol. 27 (1), pp. 69-82, MAR 2012 [ISI]
5. Alberto Pinto, João P. Almeida, A. Portela, Golden tilings. Transactions of the American Mathematical Society, Vol. 364 (5) pp. 2261-2280, MAY 2012, [ISI]
6. Alberto Pinto, Miguel Ferreira, B. F. Finkenstädt, Bruno M.P.M. Oliveira, and A. N. Yannacopoulos, On the convergence to Walrasian prices in random matching Edgeworthian economies, Central European Journal of Operations Research, Vol. 20 (3), Special Issue: SI, pp. 485-495, SEP 2012 [ISI]

7. Alípio Mário Jorge, Paulo J. Azevedo, Optimal leverage association rules with numerical interval conditions, Intelligent Data Analysis, Vol: 16 (1), pp.25-47, 2012 [ISI, DBLP]

8. B. Barbosa, Pedro Quelhas Brito, Do open day events develop art museum audiences?, Museum Management and Curatorship, Vol.27 (1), pp.17-33, FEB 2012

9. B. Sousa, Bruno M. P. M. Oliveira, M.D.V. de Almeida, Growth trends in boys and girls (10– 17 years-old) from autonomous region of Madeira, Portugal between 1996–1998 and 2007–2009, Annals of Human Biology, Vol. 39 (6): pp. 526–529, 2012. [ISI]

10. Brett Drury, J.J. Almeida, M. H. Morais, Construction and maintenance of a fuzzy temporal ontology from news stories, International Journal of Metadata, Semantics and Ontologies, Vol. 6 (3), pp. 219-233

11. Brett Drury, Luís Torgo, J. J. Almeida, Classifying News Stories with a Constrained Learning Strategy to Estimate the Direction of a Market Index, International Journal of Computer Science & Applications, Vol. 9 (1), pp. 1-22, JAN 2012 (2012) [DBLP]

12. Brito, P. and Polaillon, G. (2012): "Classification Conceptuelle avec Généralisation par Intervalles [Conceptual clustering with generalization by intervals]". Revue des Nouvelles Technologies de l'Information E.23, 35-40.

13. C. Castro, M.J. Bento, N. Lunet, Pedro Campos, Assessing the completeness of cancer registration using suboptimal death certificate information, European Journal of Cancer Prevention, Vol. 21 (5), pp. 478-479, Sep 2012 [ISI]

14. D. D. Pinheiro, Alberto Pinto, S. Z. Xanthopoulos, A. N. Yannacopoulos, A projected gradient dynamical system modeling the dynamics of bargaining, Journal of Difference Equations and Applications

15. D.D. Pinheiro, Alberto Pinto, S.R. Pliska, Optimal life insurance purchase, consumption and investment on a financial market with multi-dimensional diffusive terms, Optimization: A Journal of Mathematical Programming and Operations Research

16. I. Žliobaitė, A. Bifet, M. Gaber, B. Gabrys, João Gama, L. Minku, K. Musial, Next challenges for adaptive learning systems, SIGKDD Explorations, Vol. 14 (1), June 2012 [DBLP]

17. J.N. Fidalgo, Dalila B.M.M. Fontes, Fostering microgeneration in power systems: the effect of legislative limitations, Electric Power Systems Research, vol. 84 (1), pp. 181-186, MAR 2012 [ISI]

18. Jeffrey E. Schaller, Jorge M. S. Valente, Minimizing the weighted sum of squared tardiness on a single machine, Computers & Operations Research, Vol. 39 (5), pp. 919-928, MAY 2012 [ISI, DBLP]

19. João Gama, A Survey on Learning from Data Streams: Current and Future Trends, Progress in Artificial Intelligence, Vol. 1 (1), Springer 2012

20. João Gama, Raquel Sebastião, Pedro P. Rodrigues, On evaluating stream learning algorithms, Machine Learning.

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27. José Maria Martins, Alberto Pinto, N. Stollenwerk, Stationarity in Moment Closure and Quasi-Stationarity of the SIS model, Mathematical Biosciences, Vol. 236 (2), pp. 126–131, APR 2012 [ISI
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29. M. N. Caldevilla, M.A. Costa, Paulo Teles, P. M. Ferreira, Evaluation and cross-cultural adaptation of the Hendrich II Fall Risk Model to Portuguese, Scandinavian Journal of Caring Sciences, Jun 2012
30. M.S.R. Monteiro, Dalila B.M.M. Fontes, F.A.C.C. Fontes, Concave Minimum Cost Network Flow Problems Solved with a Colony of Ants, Journal of Heuristics, Online November 2012.
31. Márcia D. B. Oliveira, João Gama, A Framework to Monitor Clusters' Evolution Applied to Economy and Finance Problems, Intelligent Data Analysis 16(1), pp. 93-111 (2012). [ISI, DBLP]
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34. Nuno Escudeiro, Alípio M. Jorge, D-Confidence: an active learning strategy to reduce label disclosure complexity in the presence of imbalanced class distributions, Journal of the Brazilian Computer Society, pp.1-20, 2012 [DBLP]
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2. Nuno Ferreira, João Gama, Análise Exploratória de Hierarquias em Base de Dados Multidimensionais, Revista De Ciências Da Computação, vol.7, no.7, 2012.

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1. A. Jorge Morais, E. Oliveira, Alípio Mário Jorge, "A Multi-Agent Recommender System", in Distributed Computing and Artificial Intelligence - Proceedings of the 9th International Conference on Distributed Computing and Artificial Intelligence, DCAI 2012", S. Omatu, J. F. P. Santana, S. Rodríguez-González, J. M. Molina, A. M. Bernardos, J. M. C. Rodríguez (Eds.), Salamanca, Spain. Advances in Soft Computing, Springer 2012, pp. 281-288, March 2012, [ISI, DBLP]
2. A. Lopes, João Mendes-Moreira, João Gama, "Semi-supervised learning: predicting activities in Android environment", in Workshop UDM-ECAI 2012, pp 38-42, Montpellier, France, 2012
3. Adelaide Figueiredo, "Comparison of methods for clustering of variables defined on the hypersphere", in CFE 2012 and ERCIM 2012. p. 135.
4. Alípio Mário Jorge, João Mendes-Moreira, J. F. de Sousa, Carlos Soares, Paulo Jorge Azevedo, "Finding interesting contexts for explaining deviations in bus trip duration", in Advances in Intelligent Data Analysis XI - 11th International Symposium, IDA 2012, J. Hollmén, F. Klawonn, A. Tucker (Eds.), Helsinki, Finland, October, Lecture Notes in Computer Science 7619 Springer 2012, pp: 139-149 [DBLP]
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3. Paula Brito, M. Chavent, "Classificação Divisiva para Dados de Valores Intervalo e Histograma". XX Annual Conference of the Portuguese Statistical Society, Porto, Portugal, September 26th to 29th, 2012.
4. Paula Brito, G. Polaillon, "Classificação Conceptual com Generalização de Intervalos". XIX Journeys of Classification and Data Analysis (JOCLAD2012), Tomar, Portugal, March 2012.
5. Paula Brito, M. Chavent, "Divisive Monothetic Clustering for Interval and Histogram-Valued Data". ICPRAM 2012 - International Conference on Pattern Recognition Applications and Methods, Vilamoura, Portugal, February 6th-8 th, 2012.
6. "Uma aproximação recursiva para a distribuição quase-estacionária em modelos epidemiológicos", realizada no XX Congresso Anual da Sociedade Portuguesa de Estatística, Porto, Setembro de 2012.

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4. Dalila B.M.M. Fontes, F.A.C.C. Fontes, A. Caldeira, ``Optimal formation Switching with collision avoidance and allowing variable agent velocities'', in Dynamics of Information Systems: Mathematical Foundations, A. Sorokin, R. Murphey, M. T. Thai, P. M. Pardalos (eds.) Springer, Proceedings in Mathematics & Statistics 20, pp. 165-179. DOI 10.1007/978-1-4614-3906-6 11, Springer Science+Business Media New York 2012.

Organization of conferences and events

1. Pedro Pereira Rodrigues, Special Track on Processing and Managing Medical Data Streams - 25th International Symposium on Computer-Based Medical Systems, Rome, Italy. June 2012.
2. Pedro Pereira Rodrigues, Special Session on Machine Learning for Data Streams Applications - International Conference on Advanced Machine Learning Technologies and Applications, Cairo, Egipt. December 2012.
3. Pedro Pereira Rodrigues, Data Streams Track - 27th Annual ACM Symposium on Applied Computing, Riva del Garda (Trento), Italy, March 2012.
4. Pedro Pereira Rodrigues, Ubiquitous Data Mining Workshop. In conjunction with the 20th European Conference on Artificial Intelligence, Montpellier, France, 2012.
5. Pedro Pereira Rodrigues, Fifth Medical Informatics Symposium, Porto, Portugal, November 2012.

6. Pavel Bazdil, Program co-chair of workshop PlanLearn-12, associated with ECAI-2012, Montpellier, France
7. Pedro Campos, Organização do XX Congresso da Sociedade Portuguesa de Estatística, Universidade Católica, Porto, 26 a 29 de Setembro de 2012
8. Pedro Campos, Organização do Workshop Inovação, Empreendedorismo e Tecnologia na Porto Business School, no dia 5 de Julho de 2012.
9. Pedro Campos, "Government effectiveness and regime support", Pedro Magalhães, investigador do Instituto de Ciências Sociais da Universidade de Lisboa
10. Pedro Campos, "Marketing Intelligence na atividade empresarial", Ângelo Ramalho, Presidente Alstom Portugal e membro do Conselho Geral da UP
11. Pedro Campos, "Google e Informação: experiências de negócio", Carlos Paulo, Industry Manager da Google.
12. Alípio Jorge, Co-chair of WTI 2012 - IV International Workshop on Web and Text Intelligence (WTI - 2012) a workshop co-located with Brazilian Conference on Intelligent System - BRACIS 2012 (XXI Brazilian Symposium on Artificial Intelligence - SBIA; XII Brazilian Symposium on Neural Network - SBRN and IX Encontro de Inteligência Artificial - ENIA 2012. October 21, 2012, Curitiba, Paraná, Brazil
13. Adelaide Figueiredo, Membro da comissão científica das XIX Jornadas de Classificação e Análise de Dados em 2012.
14. Adelaide Figueiredo, Committee member of the World Congress on Engineering (WCE) em 2012.
15. João Gama, ACM Symposium of Applied Computing, SAC 2011, Data Streams track, Trento, Italy
16. João Gama, ECAI 2012, Workshop on Ubiquitous Data Mining, Montpellier, France
17. Paula Brito, Member of the pool of scientific peer reviewers of the Scientific Board of the Spanish National Evaluation and Foresight Agency (ANEP).
18. Alberto Pinto, Economic Dynamics and Control (EDC), Organizers: Alberto A. Pinto and Athanasios Yannacopoulos, The 18th International Conference on Difference Equations and Applications (ICDEA2012), Barcelona, Spain, July 23 - 27, (2012)
19. Alberto Pinto, Special Session 47: Dynamics and Games, Organizers: Alberto A. Pinto and Michel Benaim. The 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications Orlando, Florida, USA, July 1 - 5, (2012)
20. Alberto Pinto, Mini-course: "Topics in Game Theory". I Winter School on Stochastic Dynamics and Control in Finance and Economics, ISEG, Technical University of Lisbon, 16 - 20 January (2012);
21. Alberto Pinto, Programme committee ECTA 2011 - International Conference on Evolutionary Computation Theory and Applications, Barcelona, Spain, October 2012.
22. Alberto Pinto, Presidente do Cim

Thesis

José Manuel Costa Couto, Master in Quantitative Methods in Economics and Management, Faculty of Economics, University of Porto, 2012., Title: "Múltiplos de mercado – um estudo empírico", Supervisor: Maria Paula Brito (Co-supervised by: António Melo Cerqueira, Faculty of Economics, University of Porto).

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53. Alberto A. Pinto, M. Faias, Abdelrahim S. Mousa, "Resort pricing and bankruptcy", In: M. Peixoto, A. A. Pinto, and D. Rand, editors. Dynamics, Games and Science II. Springer Proceedings in Mathematics series 2 (2011), Chapter 39, 549-555.

54. Alberto A. Pinto, Abdelrahim S. Mousa, M. S. Mousa, R. M. Samarah, "Tilings and bussola for making decisions", In: M. Peixoto, A. A. Pinto, and D. Rand, editors. Dynamics, Games and Science I. Springer Proceedings in Mathematics series 1 (2011), Chapter 44, 689-710.

55. Alberto A. Pinto, Telmo Parreira, "A hotelling-type network", In: M. Peixoto, A. A. Pinto, and D. Rand, editors. Dynamics, Games and Science I. Springer Proceedings in Mathematics series 1 (2011), Chapter 45, 709-720.

56. Brett Drury, Luís Torgo, J.J. Almeida, "Classifying News Stories to Estimate the Direction of a Stock Market Index", in Proceedings of CISTI'2011

57. Brett Drury, Luís Torgo, J.J. Almeida, "Guided Self Training for Sentiment Classification", in Proceedings of International Conference On Recent Advances in Natural Language Processing (RANLP 2011) - ROBUS workshop on . Hissar, Bulgaria, September 12-14.

58. G. Polaillon, Paula Brito, "Homogénéité dans l'Analyse Conceptuelle: un Cadre Commun pour Variables Numériques, Ordinales et Modales". In : Compte rendus des 18èmes Rencontres de la Société Francophone de Classification, SFC 2011, Orléans, France.

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60. Sónia Dias, Paula Brito, "A New Linear Regression Model for Histogram-Valued Variables". In: Proceedings of the 58th ISI World Statistics Congress, Dublin, Ireland.

61. R. Cruz-Correia, L. Lapão, Pedro P. Rodrigues. "Traceability of Patient Records Usage: Barriers and Opportunities for Improving User Interface Design and Data

Management". In User Centred Networked Health Care - Proceedings of MIE 2011, Volume 169 of Studies in Health Technology and Informatics, pages 275–279, ISBN 978-1-60750-805-2, IOS Press. Oslo, Norway. August 2011.

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63. Pedro P. Rodrigues, C. Dias and R. Cruz-Correia, "Improving clinical record visualization recommendations with Bayesian stream learning", In Proceedings of the Workshop on Learning from Medical Data Streams 2011. CEUR-WS.org, ISSN 1613-0073, volume 765, paper 4, November 2011.

64. Pedro P. Rodrigues, Raquel Sebastião, Cristina Costa Santos. "Improving cardiotocography monitoring: a memory-less stream learning approach", In Proceedings of the Workshop on Learning from Medical Data Streams 2011. CEUR-WS.org, ISSN 1613-0073, volume 765, paper 7, November 2011.

65. Pedro P. Rodrigues, M. Pechenizkiy, M. M. Gaber, João Gama. "Learning from medical data streams: an introduction". In Proceedings of the Workshop on Learning from Medical Data Streams 2011. CEUR-WS.org,ISSN 1613-0073, volume 765, paper 1, November 2011.

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68. Nuno A. Fonseca, Vitor Santos Costa, Rui Camacho "Conceptual clustering of multi-relational data", 2 ACTIVIDADE CIENTIFICA 12, Inductive Logic Programming, 21th International Conference, ILP, 2011, Short papers, London, UK, 31 July-3 August, 2011.

69. H. Ferreira, Rui Camacho, J. J. Ferreira, "A New Algorithm for Learning Planning Operators from Unlabelled Execution Traces", (EPIA 2011)

70. André Santos, Rui Camacho, "ILP made easy", IADIS European Conference on Data Mining (ECDM'11) 2011

71. Campos, R. (2011). Using k-top Retrieved Web Snippets to Date Temporal Implicit Queries based on Web Content Analysis In Proceedings of the 34th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR2011). Beijing, China, 24 - 28 July. ISBN: 978-1-4503-0757-4. ACM

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73. Campos, R., Jorge, A. and Dias, G. (2011). Using Web Snippets and Query-logs to Measure Implicit Temporal Intents in Queries In Proceedings of the Query Representation and Understanding Workshop (QRU 2011) associated to 34th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR2011) Beijing, China, 28 July, pp 13 - 16.

74. Campos, R., Dias, G. and Jorge, A. (2011). What is the Temporal Value of Web Snippets? In Proceedings of the 1st International Temporal Web Analytics Workshop (TWAW 2011) associated to 20th International World Wide Web Conference (WWW2011) Hyderabad, India, 28 March, pp 9 - 16. CEUR Workshop Proceedings. ISSN 1613 - 0073.

In Proceedings by main publishers - National (10)

1. Brett Drury, J.J. Almeida, M.H.M Morais, Magellan: An Adaptive Ontology Driven "Breaking Financial News" Recommender, 6ª Conferência Ibérica de Sistemas e Tecnologias de Informação
2. Cláudia Moreiras, Cristina Matias and Pedro Campos, Modeling and Simulation of Firms' Growth in Business Markets using the Moran Process, Actas do EPIA 2011, Lisboa
3. Tarcísio Lucas, Ricardo B.C. Prudêncio, Teresa B. Ludermir, Carlos Soares, Meta-learning to optimize the number of hidden nodes of mlp networks trained by extreme learning machine algorithm, X Congresso Brasileiro de Inteligência Computacional (CBIC'2011)
4. Jorge Kanda, André Carlos Ponce Leon Ferreira de Carvalho, Eduardo R. Hruschka, Carlos Soares, Usando redes neurais artificiais para recomendar meta-heurísticas para o problema do caixeiro viajante, X Congresso Brasileiro de Inteligência Computacional
5. Cláudio Rebelo de Sá, Carlos Soares, Alípio Mário Jorge, Paulo J. Azevedo, Joaquim Pinto da Costa. Mining association rules for label ranking, Proceedings of XVII Jornadas de Classificação e Análise de Dados - JOCLAD 2011, pp. 121-124
6. Francisco Reinaldo, Rui Camacho and Luis Paulo Reis, "Arquitetura Híbrida das Teorias de Aprendizagem em Camadas Comportamentais para Ensino à Distância", 40th IGIP International Symposium on Engineering Education, Santos, Brasil, 30 de March de 2011
7. R. Chilro, A.Ferreira, Bruno M. P. M. Oliveira, Ricardo Morla, "Intermittent connection effect in the Message Ferry Delay Tolerant Network", 6th Doctoral Symposium on Informatics Engineering
8. R. Rosário, B. Pereira, A. Araújo, O. Lopes, P. Padrão, V. H. Teixeira, Bruno M.P.M. Oliveira, R. Barros, A. Moreira, P. Moreira, "Qual o impacte de uma intervenção com setting na escola na atividade física em crianças?", VII Seminário Internacional de Educação Física, Lazer e Saúde, Braga, 19-22 Julho, pp. 375-385 2011
9. F. E. Correa, Márcia D. B. Oliveira, L. R. A. Alves, João Gama, P. L. P. Corrêa, "Extraction of Events in Agribusiness Data Marts of Brazil Using Tucker Decomposition", XVIII Jornadas de Classificação e Análise de Dados, Universidade de Trás-os-Montes e Alto Douro, 7 a 9 de Abril de 2011

Books by major international publisher

1. K. Faceli, A. Lorena, João Gama, A. Carvalho, Inteligência Artificial - Uma abordagem de Aprendizado de Máquina, LTC
2. Dynamics, Games and Science I, Springer Proceedings in Mathematics, vol1.
3. (Eds. Peixoto, Mauricio Matos; Pinto, Alberto Adrego and Rand, David A.), http://www.springer.com/mathematics/dynamical+systems/book/978-3-642-11455-7
4. Dynamics, Games and Science II, Springer Proceedings in Mathematics, vol2., (Eds. Peixoto, Mauricio Matos; Pinto, Alberto Adrego and Rand, David A.), http://www.springer.com/mathematics/dynamical+systems/book/978-3-642-14787-6

Proceedings of international conferences / workshops (4)

1. Pedro P. Rodrigues, M. Pechenizkiy, M. M. Gaber, João Gama, Proc. of the Workshop on Learning from Medical Data Streams, Vol. 765 of CEUR-WS.org

2. João Gama, E. J. Hollmén, Advances in Intelligent Data Analysis X, IDA 2011, Vol. 7014 [DBLP]
3. M. M. Peixoto, Alberto A. Pinto, David A. Rand, Games and Science I, Springer, Proc. in Mathematics series: 1
4. M. M. Peixoto, Alberto A. Pinto, David A. Rand, Games and Science II, Springer, Proc. in Mathematics series: 2

Communications (Oral) at International Scientific Meetings (53)

1. Pedro P. Rodrigues, "Learning from medical data streams: real-world scenarios", July 2011, Faculty of Information and Computer Sciences - University of Ljubljana, Ljubljana, Slovenia.
2. Bruno M.P.M. Oliveira, Alberto Pinto, Miguel Ferreira, "Patents in new technologies – Boundaries Characterization", [Oral]. 7th International Congress on Industrial and Applied Mathematics, 2011 Jul 18-22, Vancouver, Canadá.
3. Alberto Pinto, Bruno M.P.M. Oliveira, Miguel Ferreira, N.J. Burroughs, "Immunological Thresholds", [Oral] 7th International Congress on Industrial and Applied Mathematics, 2011 Jul 18-22, Vancouver, Canadá.
4. Bruno M.P.M. Oliveira, Alberto Pinto, Miguel Ferreira, N.J. Burroughs, "A Dynamical Model for Tregs and Conventional T Cells", [Oral] 7th International Congress on Industrial and Applied Mathematics, 2011 Jul 18-22, Vancouver, Canadá.
5. Bruno M.P.M. Oliveira, Miguel Ferreira, Alberto Pinto, N.J. Burroughs, "Modelling Local Immune Responses by T cells with Regulatory T cells", 3rd Porto Meeting on Mathematics for Industry, 2011 Apr 28-30, Porto, Portugal.
6. Bruno M.P.M. Oliveira, N.J. Burroughs, Miguel Ferreira, Alberto Pinto, "Fit of an immune response model to data from infected mice", 2nd Workshop on Dynamical Systems Applied to Biological and Natural Sciences, 2011 Feb 02-04, Lisboa, Portugal.
7. Paula Brito, "Introduction to Symbolic Data Analysis. An interaction movement between statistics and data processing". Invited talk (90 min) at the 11th Workshop on Large-Scale Data Analysis at the University of Hokkaido, Sapporo, Japan, February 2011.
8. Paula Brito, M. Ichino, "Conceptual Clustering of Symbolic Data Using a Quantile Representation: Discrete and Continuous Approaches". Invited talk in the session on Symbolic Data Analysis, 4th International Conference of the ERCIM WG on COMPUTING & STATISTICS, (ERCIM'11), University of London, UK, December 17th-19 th, 2011.
9. Sónia Dias, Paula Brito, "Distribution and Symmetric Distribution - Model - A linear regression model for histogram-valued variables". Invited talk in the session on Symbolic Data Analysis, 4th International Conference of the ERCIM WG on COMPUTING & STATISTICS, (ERCIM'11), University of London, UK, December 17th-19 th, 2011.
10. Paula Brito, M. Ichino, "Conceptual Clustering of Symbolic Data Using a Quantile Representation: Discrete and Continuous Approaches". Workshop on Theory and Application of High-dimensional Complex and Symbolic Data Analysis in Economics and Management Science, Beijing, China, October 27th to 29th, 2011.
11. Paula Brito, G. Polaillon, "Homogeneity and Stability in Conceptual Analysis". The Eighth International Conference on Concept Lattices and Their Applications, Nancy, France, October 17th to 20th, 2011.
12. G. Polaillon, Paula Brito, "Homogénéité dans l'analyse conceptuelle : un cadre commun pour variables numériques, ordinales et modales". 18èmes Rencontres de la Société Francophone de Classification, Orléans, France, September 28th to 30th, 2011.
13. Paula Brito, A.P. D. Silva, J. G. Dias, "Parametric analysis of interval data". IFCS 2011-Symposium of the International Federation of Classification Societies and Joint Conference of the German Classification Society (GfKl) and the German Association for

Pattern Recognition (DAGM), Frankfurt, Germany, August 30th to September 2nd, 2011.

14. M. Ichino, Paula Brito, "The Data Accumulation Method for Symbolic Principal Component Analysis". 58th ISI World Statistics Congress, Dublin, Ireland, August 21st to 26th, 2011.

15. Sónia Dias, Paula Brito, "A new linear regression model for histogram-valued variables". 58th ISI World Statistics Congress, Dublin, Ireland, August 21st to 26th, 2011.

16. Paulo Teles, Paula Brito, "Modelling Interval Time Series With Space-time Processes". 58th ISI World Statistics Congress, Dublin, Ireland, August 21st to 26th, 2011.

17. A. P. Duarte Silva, Paula Brito, "MAINT.DATA: Modeling and Analysing Interval Data in R". useR, The R User Conference 2011, University of Warwick, U.K., August 16th to18th, 2011

18. Paula Brito, A. P. D. Silva, "Parametric discriminant analysis of interval data". International Classification Conference, University of St. Andrews, Scotland, July 11th to 15th, 2011.

19. Sónia Dias, Paula Brito, "Linear regression with histogram-valued variables", Workshop in Symbolic Data Analysis, Namur, Belgium, June 7th to 9th 2011.

20. Paula Brito, M. Ichino, "Clustering symbolic data based on quantile representation". Workshop in Symbolic Data Analysis, Namur, Belgium, June 7th to 9th 2011.

21. Paulo Teles, Paula Brito, "Modelling Interval Time Series with Space Time Processes". Workshop in Symbolic Data Analysis, Namur, Belgium, June 7th to 9th 2011.

22. A. P. D. Silva, Paula Brito, "MAINT.DATA: Modeling and Analyzing Interval data in R". Workshop in Symbolic Data Analysis, Namur, Belgium, June 7th to 9th 2011.

23. Tilings for Anosov diffeomorphisms. Plenary Talk, International Workshop on Nonlinear Maps and their Applications, University of Évora, Portugal (2011).

24. Bayesian-Nash equilibria in theory of planned behavior. The 3rd Annual UECE - Lisbon Meetings - Game Theory and Applications ISEG, Technical University of Lisbon, Portugal (2011).

25. Tilings and Bussola for Making Decisions. The 3nd Annual UECE - Lisbon Meetings - Game Theory and Applications ISEG, Technical University of Lisbon, Portugal (2011).

26. Tilings on the real line and Anosov diffeomorphisms. Plenary Talk,Workshop on Dynamical Systems, UFBA, Bahia, Salvador, Brasil (2011).

27. A influência dos grupos no sucesso escolar dos estudantes. Invited Talk, 4 Workshop do Projeto Klein em Língua Portuguesa, IM-UFG, Goiânia, Brasil (2011).

28. On the Convergence toWalrasian Prices in Random Matching Edgeworthian Economies. 11th SAET Conference, Faro, Portugal (2011).

29. A Hotelling-Type Network. 11th SAET Conference, Faro, Portugal (2011).

30. Renormalization gives all surface Anosov diffeomorphisms with a smooth invariant measure. 17th International Conference on Difference Equations and Applications (ICDEA 2011), Université du Québec, Trois-Rivières, Canada (2011).

31. A Dynamical Model for T Regs and Conventional T Cells. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).

32. Epidemiological Thresholds. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).

33. Resort Prices and Bankruptcy. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).

34. Leaders Influence in Individuals Decisions. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).

35. Game Theoretical Model in Theory of Planned Behavior. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).

36. Universality in Energy Sources. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).
37. Networks a la Hotelling and Incomplete Information. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).
38. Imunological Thresholds. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).
39. Tilings and Bussola for Making Decisions. Invited Talk, 7th International Congress on Industrial and Applied Mathematics (ICIAM 2011), Vancouver, Canada (2011).
40. A Hotelling-Type Network. Public Economic Theory Conference 2011 (PET11), Indiana University, Bloomington, USA (2011).
41. Renormalizing the pendulum after Galileo's observation. Plenary Talk, Workshop Internacional de Sistemas Dinâmicos. Celebrando os 90 anos do Professor Mauricio Peixoto, IMPA, Rio de Janeiro, Brazil (2011).
42. João Gama, "Reasoning about the learning process", 11th Conference Internationale Francophone sur l'Extraction et la Gestion des Connaissances EGC 2011
43. João Gama, "Challenges and issues in learning from data streams", Workshop on Adaptive Prediction Systems for Evolving Streaming Data, August 2011, Portsmouth, UK
44. Resende, Mauricio G. C.; Toso, Rodrigo; Gonçalves, J.F. Silva, Ricardo Martins de Abreu. A biased random-key genetic algorithm for the Steiner triple covering problem. MIC 2011 - 9th Metaheuristics International Conference, Udine, Italia, 25-28 de Julho de 2011.
45. Gonçalves, J.F., A biased random key genetic algorithm for the Container Loading Problem. 8th ESICUP Meeting (The EURO Special Interest Group on Cutting and Packing), Copenhaga, Dinamarca, 19-21 de Maio de 2011.
46. Gonçalves, J.F., A biased random key genetic algorithm for the three-dimensional bin packing problem. IFORS 2011 - 19th Triennial Conference of the International Federation of Operational Research Societies, Melbourne, Austrália, 10-15 de Julho de 2011.
47. Dalila B.M.M. Fontes, Fernando A.C.C. Fontes, Amélia Caldeira. ``Switching of agent formations with collision avoidance and allowing variable agent velocities''. DIS 2011 - - 3rd International Conference on the Dynamics of Information Systems, Gainesville, USA, January 2011.
48. M.S.R. Monteiro, Dalila B.M.M. Fontes and Fernando A.C.C. Fontes. ``An Ant Colony Optimization Approach for Minimum Spanning Tree Problems in Nonlinear Cost Network Flows.'' OR 2011 -- International Conference on Operations Research, Zurich, Switzerland, August 2011.
49. A. Caldeira, D.B.M.M. Fontes, F.A.C.C. Fontes. "Optimal Switching of Agent Formations with Collision Avoidance and Allowing Variable Path Curvatures". Optimization 11, Lisboa, Portugal, July 2011.
50. Ricardo Campos, Using k-top Retrieved Web Snippets to Date Temporal Implicit Queries based on Web Content Analysis 34th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR2011), Beijing, China, 24 - 28 July.
51. Ricardo Campos, Using Web Snippets and Query-logs to Measure Implicit Temporal Intents in Queries Query Representation and Understanding Workshop (QRU 2011) associated to the 34th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR2011), Beijing, China, 28th July.
52. Ricardo Campos, Future Retrieval: What Does the Future Talk About? Enriching Information Retrieval Workshop (ENIR 2011) associated to the 34th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR2011), Beijing, China, 28th July.

53. Ricardo Campos, What is the Temporal Value of Web Snippets? 1st International Temporal Web Analytics Workshop (TWAW2011) associated to 20th International World Wide Web Conference (WWW2011), Hyderabad, India, 28th March - 1st April.

Communications (Oral) at National Scientific Meetings (16)

1. Pedro P. Rodrigues, "Learning from Medical Data Streams", April 2011, Center for Research on Health Technologies and Information Systems, Faculty of Medicine of the University of Porto, Porto, Portugal.
2. Pedro P. Rodrigues, João Gama, J. Araújo, Luís Lopes. "Clustering Distributed Streams and Streaming Data Sources", July 2011. In Signal Processing and Machine Learning, INESC, Porto, Portugal.
3. Pedro P. Rodrigues, João Gama, Raquel Sebastião. "Fading window: a memoryless data stream model", May 2011. In Signal Processing and Machine Learning, INESC, Porto, Portugal.
4. J. Araújo, Pedro P. Rodrigues, Luís Lopes. "Large-Scale Simulation of a Distributed Algorithm for Clustering Streaming Sensors". In Internet das Coisas e Serviços, Inforum 2011. Coimbra, Portugal.
5. Sónia Dias, Paula Brito, "Distribution and Symmetric Distribution Regression Model". Poster presentation at Intelligent Data Analysis, IDA 2011, Porto, Portugal, October 29th to 31st, 2011.
6. Sónia Dias, Paula Brito, "Regressão linear com variáveis intervalares". XIX Annual Conference of the Portuguese Statistical Society, Nazaré, Portugal, September 28th to October 1st, 2011.
7. Paulo Teles, Paula Brito, "Modelização de séries temporais intervalares por modelos espácio-temporais". XIX Annual Conference of the Portuguese Statistical Society, Nazaré, Portugal, September 28th to October 1st, 2011.
8. A. P. D. Silva, Paula Brito, "MAINT.DATA: Um pacote de R para a análise paramétrica de dados intervalares". XIX Annual Conference of the Portuguese Statistical Society, Nazaré, Portugal, September 28th to October 1st, 2011.
9. Paula Brito, M. Ichino, "Symbolic Clustering Based on Quantile Representation". JOCLAD 2011, Vila Real, Portugal, April 2011.
10. Sónia Dias, Paula Brito, "Linear Regression for Interval and Histogram Variables". JOCLAD 2011, Vila Real, Portugal, April 2011.
11. Alberto Pinto, Mini-Curso: Teoria de jogos e decisões.A Escola de Verão da SPM 2011 (EVSPM 2011), Vila-Real, 5-9 setembro 2011.
12. João Gama, "Learning from Data Streams", 18th Jornadas de Classicação e Analise de Dados 2011, Vila Real, Portugal.
13. José M. Martins, Comunicação oral "Creation and annihilation operators in the spatial SIS model", realizada no Workshop Dynamical Systems Applied to Biology and Natural Sciences, CMAF - Universidade de Lisboa, Lisboa, Fevereiro de 2011.
14. L.M.S.S. Raimundo, Dalila B.M.M. Fontes. ``Optimização da alocação de Recursos Humanos à linha de caixas de um hipermercado recorrendo a Simulação''. IO'11 -- 15º Congresso da APDIO, Coimbra, Portugal, April 2011.
15. M.S.R. Monteiro, Dalila B.M.M. Fontes, Fernando A.C.C. Fontes. ``Um Algoritmo das Formigas para a Resolução de Problemas de Transportes com Custos Fixos''. IO'11 -- 15º Congresso da APDIO, Coimbra, Portugal, Abril 2011.
16. Ricardo Campos, An Exploratory Study on the impact of Temporal Features on the Classification and Clustering of Future-Related Web Documents 15th Portuguese Conference on Artificial Intelligence (EPIA2011) associated to APPIA: Portuguese Association for Artificial Intelligence, Lisbon, October, 10 - 13 October.

Other publications

1. M. A. Domingues, Alípio M. Jorge, Carlos Soares, Using Contextual Information as Virtual Items on Top-N Recommender Systems, CoRR abs/1111.2948 [DBLP] - article

Organization of conferences and events

1. João Gama, ACM-SAC Data Streams track 2011, Taiwan.

Thesis (2)

  - Rita P. Ribeiro: Utility-based Regression. Supervisor: Luis Torgo. Set. 2011
- Helena Ferreira, Natural and complex dynamical systems, Universidade do Minho, Supervisor: Alberto Pinto, Co-supervisor: Rui Gonçalves, January 2011

Projects

FCT VIP-ACCESS - Acesso Ubíquo à Web para Cegos, 18.900 EUR

2010

Publications

Articles in international journals (22)

Articles in International Journals listed on ISI (13)

1. Paulo J. Azevedo, Alipio M. Jorge, Ensembles of jittered association rule classifiers, Journal of Data Mining and Knowledge Discovery, Volume 21, Number 1, page 91--129 - July 2010 [ISI] - IF: 2.950
2. Dalila Fontes, Optimal Hop-Constrained Trees for Nonlinear Cost Flow Networks, Infor, Volume 48, Number 1, page 13--21 - 2010 [ISI] - IF:0.768
3. Rui Jorge Gonçalves, Alberto Adrego Pinto, Negro and Danube are mirror rivers, Journal of Difference Equations and Applications, Volume 16, Number 12, page 1491--1499 - 2010 [ISI, DBLP] - IF: 0.748
4. Manuel Herrera, Luís Torgo, Joaquin Izquierdo, Rafael Perez-Garcia, Predictive models for forecasting hourly urban water demand, Journal of Hydrology, Volume 387, Number 1-2, page 141--150 - June 2010 [ISI] - IF: 2.433
5. José R.F. Marques, Rute R. da Fonseca, Brett Drury, André Melo, Conformational characterization of disulfide bonds: A tool for protein classification, Journal of Theoretical Biology, Volume 267, Number 3, page 388--395 - December 2010 [ISI] - IF: 2.574
6. José R.F. Marques, Rute R. da Fonseca, Brett Drury, André Melo, Amino Acid Patterns around Disulfide Bonds, International Journal of Molecular Sciences, Volume 11, Number 11, page 4673--4686 - November 2010 [ISI] - IF: 1.387
7. Alberto Adrego Pinto, David A. J. Rand, Flávio Ferreira, Arc exchange systems and renormalization, Journal of Difference Equations and Applications, Volume 16, Number 4, page 347--371 - 2010 [ISI] - IF: 0.748
8. Alberto Adrego Pinto, David A. J. Rand, Train tracks with C1+ self-renormalizable structures, Journal of Difference Equations and Applications, Volume 16, Number 8, page 945--962 - 2010 [ISI] - IF: 0.748
9. Alberto Adrego Pinto, N.J. Burroughs, Miguel Ferreira, Bruno M. P. M. Oliveira, Dynamics of Immunological Models, Acta Biotherica, Volume 58, Number 4, page 391--404 - December 2010 [ISI] - IF: 0.021

10. Alberto Adrego Pinto, Maira Aguiar, José M. Martins, Nico Stollenwerk, Dynamics of Epidemiological Models, Acta Biotheoretica, Volume 58, Number 4, page 381--389 - December 2010 [ISI] - IF: 0.021
11. Jorge M. S. Valente, Jeffrey E. Schaller, Improved heuristics for the single machine scheduling problem with linear early and quadratic tardy penalties, European Journal of Industrial Engineering, Volume 4, Number 1, page 99--129 - 2010 [ISI] - IF: 1.104
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Other Articles in International Journals (10)

1. J. G. Brida, M. J. Such-Devesa, M. Faias, Alberto Adrego Pinto, Strategic choice in tourism with differentiated crowding types, Economics Bulletin , Volume 30, Number 2, page 1509--1515 - 2010
2. Brett Drury, José João Almeida, A Case Study of Rule Based and Probabilistic Word Error Correction of Portuguese OCR Text in a, International Journal of Computational Linguistics & Applications, Volume 1, Number 1-2, page 307--315 - Jan - Dec 2010
3. Rui Jorge Gonçalves, Helena Ferreira, Alberto Adrego Pinto, Universality in the StockExchange Markets, Journal of Difference Equations and Applications, page 1--5 - 2010
4. Carla Pedrosa, Bruno M. P. M. Oliveira, Isabel Albuquerque, Carlos Simões-Pereira , Maria Daniel Vaz de Almeida, Flora Correia, Markers of metabolic syndrome in obese children before and after 1-year lifestyle intervention program, European Journal of Nutrition, page 1--10 - 2010
5. Carla Pedrosa, Bruno M. P. M. Oliveira, Isabel Albuquerque, Carlos Simões-Pereira , Maria Daniel Vaz de Almeida, Flora Correia, Metabolic syndrome, adipokines and ghrelin in overweight and obese schoolchildren: results of a 1-year lifestyle intervention programme, European Journal of Pediatrics, page 1--10 - 2010
6. Carla Pedrosa, Bruno M. P. M. Oliveira, Isabel Albuquerque, Carlos Simões-Pereira , Maria Daniel Vaz de Almeida, Flora Correia, Obesity and metabolic syndrome in 7-9 years-old Portuguese schoolchildren, Diabetology & Metabolic Syndrome, Volume 2, Number 1, page 40--47 - 2010
7. Alberto Adrego Pinto, David A. J. Rand, Uniformly hyperbolic diffeomorphisms in every surfaces, Journal of Difference Equations and Applications, page 1--17 - 2010
8. Alberto Adrego Pinto, João Paulo Almeida, A. Portela, Golden tilings, Transactions of the American Mathematical Society, page 1--21 – 2010
9. Nico Stollenwerk, S. van Noort, José M. Martins, Maira Aguiar, F. Hilker, Alberto Adrego Pinto, G. Gomes, A spatially stochastic epidemic model with partial immunization shows in mean field approximation the reinfection threshold, Journal of Biological Dynamics, Volume 4, Number 6, page 634--649 - 2010
10. Vasco Vasconcelos, Pedro Campos, Distributed Informal Information Systems for Innovation: an empirical study of the role of Social Networks, Communications in Computer and Information Science, Volume 110, Number 3, page 208--217 - 2010

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1. M. M. Gaber, R. R. Vatsavai, O. A. Omitaomu, João Gama, N. V. Chawla, A. R. Ganguly, Knowledge Discovery from Sensor Data, Springer, Vol. 5840 [DBLP]
2. João Gama, Knowledge Discovery from Data Streams, CRC Press
3. Carlos Soares, R. Ghani, Data Mining for Business Applications, IOS Press, Vol. 218
4. Luís Torgo, Data Mining with R: Learning with Case Studies, CRC Press

Proceedings of international conferences / workshops (3)

1. João Gama, M. F. Santos, N. Marques, P. Cortez, Workshop on Ubiquitous Data Mining (UDM), In conjunction with (ECAI2010)
2. Pavel Brazdil, A. Bernstein, J. Kietz, ECAI 2010 Planning to Learn Workshop (PlanLearn)
3. Rui Gonçalves, Helena Ferreira, Alberto Adrego Pinto "Universal fluctuations of the Dow Jones", SMTDA (Stochastic Modeling Techniques and Data Analysis International Conference) 2010.

Book chapters by major international publisher (12)

1. Pavel Brazdil, Rui Leite, Determining the Best Classification Algorithm with Recourse to Sampling and Metalearning, Advances in Machine Learning I, Springer, Vol. 262, pp. 173—188 [DBLP]
1. 2.Pavel Brazdil, R. Vilalta, C. Giraud-Carrier, Carlos Soares, Metalearning, Encyclopedia of Machine Learning, Springer, pp. 662-666
2. Pedro Quelhas Brito, The "Digitalisation" of Youth: How Do They Manage and Integrate Digital Technologies?, Handbook of Research on Digital Media and Advertising: User Generated Content Consumption, IGI Global
3. J. A. Freitas, A. Costa-Pereira, Pavel Brazdil, Learning cost-sensitive decision trees to support medical diagnosis, in Complex Data Warehousing and Knowledge Discovery for Advanced Retrieval Development: Innovative Methods and Applications, IGI Global, pp. 287-307
4. João Gama, Clustering from Data Streams, Encyclopedia of Machine Learning, Springer, pp. 180-183
5. Pedro Pereira Rodrigues, João Gama, L. Lopes, Knowledge Discovery for Sensor Network Comprehension,Intelligent Techniques for Warehousing and Mining Sensor Network Data, IGI Global, Vol. 6, pp. 118-135
6. Carlos Soares, R. Ghani, Data mining for business applications: Introduction, Data Mining for Business Applications, IOS Press, Vol. 218, pp. 1-14
7. Luís Torgo, Carlos Soares, Resource-bounded Outlier Detection Using Clustering Methods, Data Mining for Business Applications, IOS Press, pp. 84-98
8. Luís Torgo, Model Trees, Encyclopedia of Machine Learning, Springer, pp. 684-686
9. Luís Torgo, Regression Trees, Encyclopedia of Machine Learning, Springer, pp. 842-845
10. R. Vilalta, C. Giraud-Carrier, Pavel Brazdil, Meta-Learning - Concepts and Techniques, Data Mining and Knowledge Discovery Handbook 2010, Springer, pp. 717-731 [DBLP]
11. R. Vilalta, C. Giraud-Carrier, Pavel Brazdil, Carlos Soares, Inductive Transfer, Encyclopedia of Machine Learning, Springer, pp. 545-548

Articles in books, international publisher, indexed in ISI or DBLP (16)

1. Artur Aiguzhinov, Carlos Soares, A. P. Serra, A Similarity-Based Adaptation of Naive Bayes for Label Ranking: Application to the Metalearning Problem of Algorithm Recommendation, Discovery Science, Proc. DS 2010, Vol. 6332, pp. 16-26 [DBLP]
2. Rui Camacho, R. Ferreira, N. Rosa, V. Guimarães, N. Fonseca, V. S. Costa, M. de Sousa, A. Magalhães, Predicting the Start of Protein alpha-Helices Using Machine Learning Algorithms, Advances in Bioinformatics - 4th Int. Workshop IWPACBB 2010, Vol. 74, pp. 33-41 [DBLP]

3. Carlos Abreu Ferreira, João Gama, V. S. Costa, Sequential Pattern Mining in Multi-relational Datasets, Current Topics in Artificial Intelligence, Proc. of the 13th Conf. of the Spanish-Association-for-Artificial-Intelligence, Vol. 5988, pp. 121-130 [ISI]
4. P. Festa, José Fernando Gonçalves, M. G. C. Resende, R. M. A. Silva, Automatic Tuning of GRASP with Path-Relinking Heuristics with a Biased Random-Key Genetic Algorithm, Experimental Algorithms, Proc. of the 9th Int. Symposium on Experimental Algorithms, Vol. 6049, pp. 338-349 [ISI]
5. Carlos Adriano Gonçalves, C. T. Gonçalves, Rui Camacho, E. Oliveira, The Impact of Pre-processing on the Classification of MEDLINE Documents, Pattern Recognition in Information Systems, Proc. of the 10th Int. Workshop PRIS 2010, In conjunction with ICEIS 2010, pp. 53-61 [DBLP]
6. G. Grigonyte, João Paulo Cordeiro, G. Dias, R. Moraliyski, Pavel Brazdil, Paraphrase Alignment for Synonym Evidence Discovery, COLING 2010, Proc. of the 23rd Int. Conf. on Computational Linguistics, pp. 403-411 - [DBLP]
7. H. Kargupta, João Gama, W. Fan, The next generation of transportation systems, greenhouse emissions, and data mining, Proc. of the 16th ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining, pp. 1209-1212 [DBLP]
8. Petr Kosina, João Gama, Raquel Sebastião, Drift Severity Metric, ECAI 2010, Proc. of the 19th European Conf. on Artificial Intelligence, Vol. 215, pp. 1119-1120 [DBLP]
9. Rui Leite, Pavel Brazdil, Active Testing Strategy to Predict the Best Classification Algorithm via Sampling and Metalearning, ECAI 2010, Proc. of the 19th European Conf. on Artificial Intelligence, Vol. 215, pp. 309-314 - [DBLP]
10. Orlando Ohashi, Luís Torgo, Rita P. Ribeiro, Interval Forecast of Water Quality Parameters, Frontiers in Artificial Intelligence and Applications, Proceedings of the ECAI 2010, Vol. 215, pp. 283-288 [DBLP]
11. Márcia Oliveira, João Gama, Bipartite Graphs for Monitoring Clusters Transitions, Advances in Intelligent Data Analysis IX, Proc. of the 9th Int. Symposium on Intelligent Data Analysis (IDA 2010), Vol. 6065, pp. 114-124 - May [ISI, DBLP]
12. R. Reis, P. Escudeiro, Nuno Escudeiro, Comparing Social Virtual Worlds for Educational Purposes, ICALT 2010, Proc. of the 10th IEEEE Int. Conf. on Advanced Learning Technologies, pp. 186-190 [DBLP]
13. Pedro Pereira Rodrigues, João Gama, A Simple Dense Pixel Visualization for Mobile Sensor Data Mining, Knowledge Discovery From Sensor Data, Proc. of the 2nd Int. Workshop on Knowledge Discovery from Sensor Data (Sensor-KDD 2008), Vol. 5840, pp. 175-189 [ISI]
14. Raquel Sebastião, João Gama, Pedro Pereira Rodrigues, J. Bernardes, Monitoring Incremental Histogram Distribution for Change Detection in Data Streams, Knowledge Discovery From Sensor Data, Proc. of the 2nd Int. Workshop Sensor-KDD 2008, Vol. 5840, pp. 25-42 [ISI]
15. Carlos Soares, M. Calejo, Intelligent Document Routing as a First Step towards Workflow Automation: A Case Study Implemented in SQL, Leveraging Applications of Formal Methods, Verification, and Validation – Proc. of the 4th Int. Symposium on Leveraging Applications, ISoLA 2010, Vol. 6415, pp. 276-284 [DBLP]
16. B. F. Souza, A. C. P. L. F. de Carvalho, Carlos Soares, Empirical Evaluation of Ranking Prediction Methods for Gene Expression Data Classification, Advances in Artificial Intelligence - IBERAMIA 2010, Proceedings of the 12th Ibero-American Conference on AI, Vol. 6433, pp. 194-203 [DBLP]

Other Publications not included in the list above for lack of space.

Encyclopedia Entries
1. R Vilalta, C Giraud-Carrier, P Brazdil, C Soares, Inductive Transfer, Encyclopedia of Machine Learning, 545-548, 2010

2. Pavel Brazdil, Ricardo Vilalta, Christophe G. Giraud-Carrier, Carlos Soares: Metalearning. Encyclopedia of Machine Learning 2010: 662-666

Communications (Oral) at International Scientific Meetings (3)

1. Helena Ferreira, Bayesian-Nash equilibria in a behavior model, Second Brazilian Workshop of the Game Theory Society, São Paulo, Brasil (2010).
2. Helena Ferreira, Modeling Human Behavior, 24th European Conference on Operational Research (EURO XXIV), Lisboa, Portugal (2010).
3. Helena Ferreira, A behavioral game theoretical model, International Conference on Modeling, Optimization and Dynamics, Porto, Portugal (2010).

Other national publications

National Journals (1)

1. Luís Torgo, Rita P. Ribeiro, Modelos de Previsão de Valores Extremos e Raros, Boletim da Sociedade Portuguesa de Estatística, Volume Primavera 2010, page 15--22 - 2010

Books (1)

1. Mendes,J.R., Marques, C.G., Silva, V.G. and Campos R. (2010). Microsoft Excel 2007: Exercises. Polytechnic Institute of Tomar Tomar, Portugal. ISBN 978-972-9473-47-0

Articles in books (6)

1. Artur Aiguzhinov, Carlos Soares, Ana Paula Serra, Understanding and predicting rankings of financial analysts, Proceedings of XVII Jornadas de Classificacao e Análise de Dados XVII JOCLAD 2010, page 65--68 - 2010
2. C. Castro, Pedro Campos, Estimação da exaustividade no Registo Oncológico Regional do Norte, XVII Congresso da Sociedade Portuguesa de Estatística – 2010
3. Adelaide Figueiredo, Abordagem probabilística para a classificação de variáveis, XVII Jornadas de Classificação e Análise de Dados, page 29--31 - 2010
4. Adelaide Figueiredo, Paulo Gomes, Classificação de variáveis em grupos previamente definidos, XVIII Congresso Anual da Sociedade Portuguesa de Estatística, page 116--118 - 2010
5. G. S. Gonçalves, Adelaide Figueiredo, Fernanda Figueiredo, Análise da evolução dos principais sectores de actividade em Portugal, XVIII Congresso Anual da Sociedade Portuguesa de Estatística, page 25--27 - 2010
6. F. Tedim, A. Ramos, Pedro Campos, D. Ramalheira, S. Carvalho, Cem anos de história: A frequência e a intensidade das cheias do rio Tâmega na cidade de Amarante (Portugal) aumentaram ao longo do século XX?, Actas do XII Colóquio Ibérico de Geografia - 2010

Thesis

PhD

1. Pedro Pereira Rodrigues: Learning from Ubiquitous Data Streams: Clustering Data and Data sources, Supervisor J.Gama, Nov. 2010
2. Marcos Aurélio Domingues, Exploiting Multidimensional Data for Web Site Automation, Supervisors A.Jorge, C.Soares, Nov. 2010
3. José Maria Gouveia Martins, Thresholds for epidemiological outbreaks, Supervisors A.Pinto, Nico Stollenwerk, Apr. 2010
4. Luís Miguel Mesquita da Silva Ferreira, Supervisor A.Pinto
5. Francisco Reinaldo: "AFRANCI: A Multi-Layer Architecture for Cognitive Agents'', Supervisor R. Camacho, Nov. 2010.

6. Bruno Feres de Souza: Meta-apredizagem Aplicada à Classificação de Dados de Expressão Gênica. U. de São Paulo, Supervisor: André Carvalho (USP), C. Soares, Out. 2010

Patents/propotypes

Organization of conferences

1. Ubiquitous Data Mining (UDM), in conjunction with the 19th European Conference on Artificial Intelligence - ECAI 2010, in Lisbon, Portugal, August 2010.
2. PlanLearn-2010, Planning to Learn, in conjunction with the 19th European Conference on Artificial Intelligence - ECAI 2010, in Lisbon, Portugal, August 2010.
3. SensorKDD Workshop, Washington DC, July 2010
4. Web and Text Intelligence, in conjuntion with SBIA 2010, São Bernardo do Campo, Brazil, November 2010
5. Data Streams Track at ACM Symposium Applied Computing, Sierre, Switzerland
6. Thematic session on Applications of Data Mining for Management and Finance of JOCLAD (Jornadas de Classificação e Análise de Dados), Lisbon, Portugal

Computacional Applications (1)

1. Luis Torgo, DMwR, an R package with functions and data accompanying the book "Data Mining with R, learning with case studies" by Luis Torgo, CRC Press 2010. http://cran.dcc.fc.up.pt/web/packages/DMwR

Internationalization

Organizational activities in collaboration with others from abroad:
• Organization of 3 international workshops and 2 thematic tracks/sessions
• Participation in program committees of conferences / workshops (exceeds 60 per year).

Participation in Editorial Boards of Int. Journals (5 listed below are referred to on ISI):
• Machine Learning Journal (P. Brazdil, J.Gama),
• Data Mining and Knowledge Discovery (J. Gama),
• New Generation Computing (J. Gama),
• Intelligent Data Analysis (J. Gama, P. Brazdil)
• Advances in Data Analysis and Classification (Paula Brito),
+ participation in 7 other international journals

Graduate Training Networks or other forms of participation of the Research Group at the international level
Erasmus agreement for student and staff mobility with U. Leiden, The Netherlands

Teaching abroad:
• Luis Torgo, Brazil; Ljubjana, Slovenia
• J.Gama, UPMadrid Spain; URN Brazil
• A.Jorge, USP-S.Carlos, Brazil

Senior Research visitors:
• L. Popelinsky, U. Masaryk, Czech R.
• Jarek Olejniczak, Poland
• Joost Kok and Michel Chaudron, U. Leiden, The Netherlands
• André Carvalho, USP, Brazil

- Z. Bosnic e D. Pevec Univ. Ljubljana, Slovenia
- Marcilio Souto, Univ. FRGN, Brasil
- Sarabjot S. Anand, Univ. Warwick, UK
- Nitesh Chawla, University Notre Dame, US
- Mohamed Gaber, University of Portsmouth, UK
- Elena Ikonomovska, Jozef Stekan Institute. Slovenia
- Joaquin Vanschoren, Leiden University
- Bernhard Pfahringer, Waikato Univ. NZ

Visiting postgraduate students:

Jan Knotek, U.Masaryk, R.Checa
Iris Ada, Germany
Bruno Nogueira, Brazil
Robson Motta, Brazil
Fernando Correia , Brazil

Research Visits:

- U. Federal de Pernambuco (UFPE), Recife, Brazil, Nov-Dec 2010, T. Ludermir and R. Prudêncio, C. Soares
- ICMC - USP; Univ. Rio Grande Norte, J.Gama
- USP-S.Carlos and Embrapa, Campinas, Brazil, A.Jorge

Projects

FCT VIP-ACCESS - Acesso Ubíquo à Web para Cegos, 18.900 EUR

Industry contract research

1. Palco Principal: Palco 3.0– Sistema Web Inteligente de Apoio à Gestão de uma Rede Social na Área da Música (Funding Programme: ON.2 - Regional Operating Programme for the North 2008/2011), 22.319 EUR
2. Argos - Rampas - with Argonne National Lab, USA, 7.000 Euros
3. F-Aviex - Avaliação de Viabilidade de um Expert System na FLEX2000 (produção de espumas), 8.000 EUR

2009

Publications

Publications in peer reviewed articles (22)

ISI/DBLP (16)

Ricardo Bessa, Vladimiro Miranda, João Gama:
Entropy and Correntropy Against Minimum Square Error in Offline and Online Three-Day Ahead Wind Power Forecasting
IEEE Transactions on Power Systems, Volume 24, Number 4, page 1657--1666 - November 2009 [ISI]

Gladys Castillo, João Gama:
Adaptive Bayesian network classifiers
Intelligent Data Analysis, Volume 13, Number 1, page 39--59 - 2009 [ISI, DBLP]

Adelaide Figueiredo:

Discriminant Analysis for the von Mises-Fisher Distribution
Communications in Statistics - Simulation and Computation, Volume 38, Number 9, page 1991--2003 - 2009 [ISI]

Adelaide Figueiredo
Multi-sample tests for axial data from Watson distributions
ASTA - Advances in Statistical Analysis, Volume 93, Number 4, page 371--386 - 2009 [ISI]

Nuno Fonseca, Vitor Santos Costa, Ricardo Rocha, Rui Camacho, Fernando Silva
Improving the efficiency of inductive logic programming systems
Software, Practice and Experience, Volume 39, Number 2, page 189--219 - February 2009 [ISI, DBLP]

Nuno Fonseca, Ashwin Srinivasan, Fernando Silva, Rui Camacho
Parallel ILP for Distributed-Memory Architectures
Machine Learning, Volume 74, Number 3, page 257--279 - March 2009 [ISI, DBLP]

João Gama, Auroop R. Ganguly, Olufemi A. Omitaomu, Ranga Raju Vatsavai, Mohamed Medhat Gaber
Knowledge discovery from data streams introduction
Intelligent Data Analysis, Volume 13, Number 1, page 403--404 - 2009 [ISI, DBLP]

Rui Jorge Gonçalves, Alberto Adrego Pinto, Nico Stollenwerk
Cycles and universality in sunspot numbers fluctuations
The Astrophysical Journal, Volume 691, page 1583--1586 - 2009 [ISI]

Ana Carolina Lorena, André Carlos Ponce L. F. de Carvalho, João Gama
A review on the combination of binary classifiers in multiclass problems
Artificial Intelligence Review, Volume 30, Number 1, page 19--37 - 2009 [DBLP]

Jorge José de Magalhães Mendes, José Fernando Gonçalves, Mauricio G. C. Resende
A random key based genetic algorithm for the resource constrained project scheduling problem
Computers & Operations Research, Volume 36, Number 1, page 92--109 - January 2009 [ISI, DBLP]

P.M.M. Mendes-Moreira, M.C. Vaz Patto, M. Mota, João Mendes Moreira, J.P.N. Santos, J.P.P. Santos, E. Andrade, A.R. Hallauer, S.E. Pêgo
'Fandango': long term adaptation of exotic germplasm to a Portuguese on-farm-conservation and breeding project
Maydica, Volume 54, page 269--285 - 2009 [ISI]

Pedro Pereira Rodrigues, João Gama
A system for analysis and prediction of electricity-load streams
Intelligent Data Analysis, Volume 13, Number 3, page 477--496 - 2009 [ISI, DBLP]

Eduardo J. Spinosa, André Carlos Ponce L. F. de Carvalho, João Gama
Novelty detection with application to data streams
Intelligent Data Analysis, Volume 13, Number 3, page 405--422 - 2009 [ISI, DBLP]

Jorge M. S. Valente, José Fernando Gonçalves
A genetic algorithm approach for the single machine scheduling problem with linear earliness and quadratic tardiness penalties
Computers & Operations Research, Volume 36, Number 10, page 2707--2715 - 2009 [ISI]

Jorge M. S. Valente, Maria do Rosário Moreira
Greedy randomized dispatching heuristics for the single machine scheduling problem with quadratic earliness and tardiness penalties
International Journal of Advanced Manufacturing Technology, Volume 4 - 2009 [ISI]
_____
Jorge M. S. Valente
Beam Search Heuristics for the Single Machine Scheduling Problem with Linear Earliness and Quadratic Tardiness Costs
Asia-Pacific Journal of Operational Research, Volume 26, Number 3, page 319--339 - June 2009 [ISI]

Articles in Journals not listed on ISI nor DBLP (they may appear listed later) (6)
Pedro Quelhas Brito:
Shopping centre image dynamics of a new entrant
International Journal of Retail & Distribution Management, Volume 37, Number 7, page 580-599 - 2009

Flora Correia, Sílvia Pinhão, Rui Poínhos, Bruno Oliveira, Maria Almeida, José L. Medina, A. Galvão-Teles:
Obstacles in dietary treatment of obesity,
Obesity and Metabolism, Volume 5, Number 3, page 107-113 - 2009

Rui Jorge Gonçalves, Helena Ferreira, Alberto Adrego Pinto, Nico Stollenwerk:
Universality in nonlinear prediction of complex systems,
Journal of Difference Equations and Applications, page 1-9 - 2009

Carla Pedrosa, Flora Correia, Dulce Seabra, Bruno Oliveira, Carlos Simões-Pereira , Maria Almeida
Prevalence of overweight and obesity among 7-9 year-old children in Aveiro, Portugal: Comparison between IOTF and CDC references,
Public Health Nutrition - 2009

Susana Silva, Nuno Fidalgo, Dalila Fontes:
A Simulation Based Decision Aid Tool for Setting Regulation of Energy Grids with Distributed Generation,
Operational Research - 2009

Bruno Feres de Souza, Carlos Soares, André Carlos Ponce L. F. de Carvalho:
Meta-learning approach to gene expression data classification,
International Journal of Intelligent Computing and Cybernetics, Volume 2, Number 2, page 285-303 - 2009

Books by major international publisher (3)

Pavel Brazdil, Christophe Giraud-Carrier, Carlos Soares, R. Vilalta:
Metalearning: Applications to Data Mining
Springer - January 2009

João Gama:
On Combining Classification Algorithms
VDM Verlag - June 2009

Alberto Adrego Pinto, David A. J. Rand, Flávio Ferreira:

Fine Structures of Hyperbolic Diffeomorphisms
Springer - 2009

Proceedings of international conferences / workshops (4)

Paula Brito
Workshop on Symbolic Data Analysis
Proceedings - 2009

João Gama, Vitor Santos Costa, Alipio M. Jorge, Pavel Brazdil:
Discovery Science, 12th Int. Conf (DS 2009)
Proceedings, Volume 5808 - October 2009 [DBLP]

Ronghuai Huang, Qiang Yang, Jian Pei, João Gama, Xiaofeng Meng, Xue Li:
Advanced Data Mining and Applications, 5th International Conference (ADMA 2009)
Proceedings, Volume 5678 - 2009 [DBLP]

Olufemi A. Omitaomu, Auroop R. Ganguly, João Gama, Ranga Raju Vatsavai, Nitesh V. Chawla, Mohamed Medhat Gaber
Proceedings of the 3rd International Workshop on Knowledge Discovery from Sensor Data (SensorKDD-2009)
Proceedings - June 2009 [DBLP]

Book chapters by major international publisher (6)

M. Ricardo Cunha, Dalila Fontes:
A Stochastic Dynamic Programming Model for Valuing an Eucalyptus Investment
in Advances in Modeling Agricultural Systems, Springer, Volume 25 - February 2009

Nuno Fidalgo, Dalila Fontes, Susana Silva:
A Decision Support System to Analyze the Influence of Distributed Generation in Energy Distribution Networks
in Optimization in the Energy Industry, Springer, page 59--77 - 2009

Dalila Fontes:
Heuristics Methods for the Project Scheduling Problem
in Project Management, Nova Science Publishers - 2009

J. Alberto Freitas, Pavel Brazdil, Altamiro Costa-Pereira
Cost-Sensitive Learning in Medicine
in Data Mining and Medical Knowledge Management: Cases and Applications, Medical Information Science Reference -
IGI Global, page 57--75 - February 2009

João Gama, Gladys Castillo:
Bias Management in Time-Changing Data Streams
in Metalearning: Applications to Data Mining, Springer, page 91--107 - 2009

João Gama, Pedro Pereira Rodrigues:
An Overview on Mining Data Streams
Foundations of Computational Intelligence - Volume 6: Data Mining, Springer, Volume 206, page 29-45 - 2009 [DBLP]

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R. Almeida, L. P. Reis, Alipio Jorge
Analysis and Forecast of Team Formation in the Simulated Robotic Soccer Domain
Proc. of the 14th Portuguese Conf. on Artificial Intelligence (EPIA 2009), Volume 5816, page 239-250 - October [ISI, DBLP]

R. Almeida, L. P. Reis, Alipio Jorge
Analysis and prediction of training teams in the field of robotic soccer simulation methodologies for classification in WEKA
Proc. of the 4Th Iberian Conf. on Information Systems and Technologies (CISTI 09), page 627-632 - June [ISI]

Rui Camacho, A. Alves, C. G. Silva, R. M. M. Brito
On Mining Protein Unfolding Simulation Data with Inductive Logic Programming
Proc. of the 2nd Int. Workshop on Practical Applications of Computational Biology and Bioinformatics (IWPACBB 2008), Volume 49, page 175-179 - October [ISI]

Nuno Escudeiro, Alipio Jorge
Efficient Coverage of Case Space with Active Learning
Proc. of the 14th Portuguese Conf. on Artificial Intelligence (EPIA 2009), Volume 5816, page 411-422 - October [ISI, DBLP]

N. Fonseca, V. S. Costa, Rui Camacho, C. Vieira, J. Vieira
Partitional Clustering of Protein Sequences - An Inductive Logic Programming Approach
Proc. of the IWANN 2009 Workshops, Volume 5518, page 1001-1004 - June [ISI, DBLP]

F. A. Fontes, Dalila Fontes, A. Caldeira
Model Predictive Control of Vehicle Formations
Proc. of the 8th Int. Conf. on Cooperative Control and Optimization, Volume 381, page 371-384 - [ISI]

João Gama, Raquel Sebastião, Pedro P. Rodrigues
Issues in evaluation of stream learning algorithms
Proc. of the 15th ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD 2009), page 329-337 - June [ISI, DBLP]

João Gama, Petr Kosina
Tracking Recurring Concepts with Meta-learners
Proc. of the 14th Portuguese Conf. on Artificial Intelligence (EPIA 2009), Volume 5816, page 423-434 - October [ISI, DBLP]

Rui Jorge Gonçalves, Alberto Adrego Pinto
Universal Fluctuations of the S&100 Stock Index Returns
Proc. of the 7th Int. Conf. of Numerical Analysis and Applied Mathematics, Volume 1168, page 979-981 - September [ISI]

E. Ikonomovska, João Gama, Raquel Sebastião, D. Gjorgjevik
Regression Trees from Data Streams with Drift Detection
Proc. of the 12th Int. Conf. (DS 2009), Volume 5808, page 121-135 - October [ISI, DBLP]

A. C. Miranda, Alipio Jorge

Item-Based and User-Based Incremental Collaborative Filtering for Web Recommendations
Proc. of the 14th Portuguese Conf. on Artificial Intelligence (EPIA 2009), Volume 5816, page 673-684 - October [ISI, DBLP]

João M. Moreira, Alipio Jorge, Carlos Soares, J. F. Sousa
Ensemble Learning: A Study on Different Variants of the Dynamic Selection Approach
Proc. of the 6th Int. Conf. on Machine Learning and Data Mining (MLDM 2009), Volume 5632, page 191-205 - July [ISI, DBLP]

João M. Moreira, C. Soares, Alipio Jorge, J. F. Sousa
The Effect of Varying Parameters and Focusing on Bus Travel Time Prediction
Proc. of the 13th Pacific-Asia Conf. on Knowledge Discovery and Data Mining (PAKDD 2009), Volume 5476, page 689-696 - April [ISI, DBLP]

M. Pereira, V. S. Costa, Rui Camacho, N. Fonseca, C. Simões, R. M. M. Brito
Comparative Study of Classification Algorithms Using Molecular Descriptors in Toxicological DataBases
Proc. of the 4th Brazilian Symposium on Bioinformatics (BSB 2009), Volume 5676, page 121-132 - July [ISI, DBLP]

P. A. Pereira, F. A. Fontes, Dalila Fontes
Genetic Algorithm Approach for the TV Self-Promotion Assignment Problem
Proc. of the 7th Int. Conf. of Numerical Analysis and Applied Mathematics, Volume 1168, page 1378-1381 - September [ISI]

M. Pereira, V. S. Costa, Rui Camacho, N. Fonseca
Visually Guiding and Controlling the Search While Mining Chemical Structures
Proc. of the IWANN 2009 Workshops, Volume 5518, page 1043-1046 - June [ISI, DBLP]

F. Reinaldo, C. Fernandes, M. A. Rahman, A. Malucelli, Rui Camacho
Assessing the Eligibility of Kidney Transplant Donors
Proc. of the 6th Int. Conf. on Machine Learning and Data Mining (MLDM 2009), Volume 5632, page 802-809 - 2009 [ISI, DBLP]

J. M. Sá, João Gama, Raquel Sebastião, L. A. Alexandre
Decision Trees Using the Minimum Entropy-of-Error Principle
Proc. of the 13th Int. Conf. (CAIP 2009), Volume 5702, page 799-807 - September [ISI, DBLP]

Carlos Soares
UCI++: Improved Support for Algorithm Selection Using Datasetoids
Proc. of the 13th Pacific-Asia Conf. on Knowledge Discovery and Data Mining (PAKDD 2009), Volume 5476, page 499-506 - April [ISI, DBLP]

Luís Torgo, W. Pereira, Carlos Soares
Detecting Errors in Foreign Trade Transactions: Dealing with Insufficient Data
Proc. of the 14th Portuguese Conf. on Artificial Intelligence (EPIA 2009), Volume 5816, page 435-446 - October [ISI, DBLP]

Luís Torgo, Rita Ribeiro
Precision and Recall for Regression
Proc. of the 12th Int. Conf. (DS 2009), Volume 5808, page 332--346 - October [ISI, DBLP]

Campos, R., Dias, G. and Jorge, A. (2009). Disambiguating Web Search Results By Topic and Temporal Clustering: A Proposal. In Proceedings of the International Conference on Knowledge Discovery and Information Retrieval(KDIR 2009) Funchal - Madeira, Portugal, 06 - 08 October, pp 292-296.

Oral Communications

Ricardo Campos, *The Regional Information System of Digital Cities and Regions in the infrastructure side.* Portuguese Information Systems Association (CAPSI 2009), Viseu, Portugal, 28-30 October.

Other Publications National

National Journals:
Luís Torgo:
Detecção de Fraude usando o R: um caso de estudo,
Boletim da Sociedade Portuguesa de Estatística - October 2009

Campos, R. (2009). The Regional Information System of Digital Cities and Regions in the infrastructure side. In Proceedings of the Portuguese Information Systems Association (CAPSI 2009) Viseu, Portugal, 28 - 30 October.

Books

Figueiredo, F., Figueiredo, A., Ramos, A. e Teles, P. (2009). Estatística Descritiva e Probabilidades. Exercícios resolvidos e propostos com aplicações em R, 2ª edição, 409 pgs., Escolar Editora.

Luís Torgo
A Linguagem R, programação para a análise de dados
Escolar Editora - 2009

Book chapters (peer review):

Figueiredo A. (2009). Testes de discordância para a distribuição von Mises-Fisher. Em Estatística Arte de Explicar o Acaso (Oliveira, I., Correia, E., Ferreira, F., Dias, S. e Braumann, C.), pp. 267-274 , Edições SPE.

Figueiredo A., Figueiredo, F. e Monteiro, N. (2009). Partilha de rendas nos bancos privatizados em Portugal. Em Estatística Arte de Explicar o Acaso (Oliveira, I., Correia, E., Ferreira, F., Dias, S. e Braumann, C.), pp. 275-286 , Edições SPE.

Articles in books:

Eva Duarte, João Mendes Moreira, Orlando Belo
Exploração de Técnicas de Classificação Associativa no Planeamento de Horários de Transportes Públicos
Actas da 9ª Conferência da Associação Portuguesa de Sistemas de Informação - 2009

Thesis completed

PhD (1)

1. Paulo Pereira, Algoritmos de Optimização em Sistemas de Apoio à Decisão para o Planeamento de Auto-promoção em TV, PhD thesis from Ciências, Departamento de Matemática para a Ciência e Tecnologia, U. Minho, [Co-Supervisor: Dalila Fontes]

MSc (16)

1. Carlos Adriano, Plataforma de Computação Distribuída para Sistemas de Detecção Automática de Intrusão, Msc. from Artificial Intelligence and Intelligent Systems, Faculty of Engineering, U. of Porto [Supervisor: Rui Camacho]

2. Marta Afonso, Classificação Aplicada à Segmentação de Imagem, Msc. from Faculty of Sciences, U. Porto [Supervisor: Paula Brito; Co-Supervisor: Helena B. Silva]

3. Rui Almeida, Uma aplicação de data mining ao futebol robótico simulado, Msc. from Data Analysis and Decision Support Systems, Faculty of Economics, U. Porto [Supervisor: Alípio Jorge; Co-Supervisor: L. P. Reis]

4. Lara Bacalhau, Loyalty in marketing, Msc. from Data Analysis and Decision Support Systems, Faculty of Economics, U. Porto - [Supervisor: Dalila Fontes]

5. Aurora Cameirão, Hybrid genetic algorithms for scheduling problems, Msc. from Data Analysis and Decision Support Systems, Faculty of Economics, U. Porto [Supervisor: Carlos Soares; Co-Supervisor: Dalila Fontes]

6. Ana Carneiro, Using Web Data for Measuring the Effectiveness of an E-Commerce Site, Msc. from Faculty of Economics, U. Porto - [Supervisor: Pedro Q. Brito; Co-Supervisor: Alípio M. Jorge]

7. Nuno Coelho, Avaliação do Microsoft Project 2007 como ferramenta de gestão de projectos, Msc. from Faculty of Engineering, U. of Porto - [Supervisor: João Mendes Moreira]

8. Cátia Cunha, Error detection in foreign trade transactions using SAS Enterprise Miner, Msc. from Mathematics and Applications, Instituto Superior Técnico - [Supervisor: Carlos Soares; Co-Supervisor: Ana Pires]

9. Frederico Figueiredo, Especificação da adaptação do módulo Oracle Retail Merchandising System (ORMS) aos processos de negócio dos retalhistas, Msc. from Faculty of Engineering, U. Porto - [Supervisor: João M. Moreira]

10. Cláudia Leite, Including economic cycles into decision making in flexible production systems via chained Markov Chains,
Msc. from Data Analysis and Decision Support Systems, Faculty of Economics, U. Porto - 2009 [Supervisor: Dalila Fontes]

11. Emanuel Maldonado, Development of a Graphical User Interface for a software used to assess adaptive evolution in protein-coding genes, Msc. from Computer Sciences, Faculty of Sciences, U. Porto - [Supervisor: A. Pereira; Co-Supervisor: Luís Torgo; Co-Supervisor: V. Vasconcelos]

12. Miguel Marques, INTRAnetVET – Intranet para a gestão interna de uma Clínica Veterinária, Msc. from Faculty of Engineering, U. Porto - [Supervisor: João M. Moreira]

13. Luís Matias, Sistema de Gestão Financeira para um Parque Tecnológico utilizando um Sistema de Geração Automática de Código,
Msc. from Faculty of Engineering, U. Porto - [Supervisor: João M. Moreira]

14. António Melo, Msc. from Escola de Gestão do Porto - 2009 [Supervisor: Pedro Q. Brito]

15. A. C. Miranda, Sistemas de recomendação incrementais, Msc. from Data Analysis and Decision Support Systems, Faculty of Economics, U. Porto - [Supervisor: Alípio M. Jorge]

16. Cristina Silva, Análise do impacto visual da montra no Comportamento do Consumidor utilizando Ferramentas de Data Mining
Msc. from Faculty of Economics, U. Porto - 2009 [Supervisor: Pedro Q. Brito; Co-Supervisor: Alípio Jorge]

Patents/Prototypes

Prototypes (Software systems) (12):

1. A_MDS: A system to advice the user in the choice of learning algorithms. It uses performance measures observed in the past on several algorithms/datasets and results on samples of data to choose the best algorithms to use. (R. Leite)
2. EdMate: Web portal meta data analysis for web editor support.(Alípio Jorge, Carlos Soares and Marcos Domingues)
3. FRules Regression Rule system for predicting outliers (Ribeiro, R., Torgo, L.)
4. Functional Trees for Classification and Regression: Decision tree learning algorithm that can use multivariate splitting tests, and functions at leaves to classify test examples. The prototype has been integrated within WEKA. (J.Gama)
5. MASOS: Multi-Agent System for Organizational Survival (P. Campos)
6. NetOrg: Networks of Organizations for Cooperation Purposes (P. Campos)
7. carenR: R interface for association rule mining, recommender systems and subgroup discovery. (Alípio Jorge)
8. UFFT: Ultra Fast Forest Tree system: Is an incremental decision tree learning algorithm, that uses a fast criteria, based on quadratic discriminant analysis, for choosing the split test.(J.Gama)
9. VFDTc: Very Fast Decision Tree for continuous attributes: Extends the VFDT system in two directions: the ability to deal with continuous data and the use of naive Bayes classifiers at tree leaves.(J.Gama)
10. ODAC Incremental clustering for time-changing data streams (P.Rodrigues, J. Gama)
11. WebTopic: focused web retrieval from the web. (Nuno Escudeiro and Alípio Jorge)
12. SOM: modular platform for Web adaptability and monitoring (Alípio Jorge, Carlos Soares)

Organization of Conferences

1. Discovery Science 2009, Porto, org. by J.Gama (Conference Chair), P.Brazdil (General Chair), A. Jorge (Program Co-Chairs), Local organization (6 Ph.D. students from LIAAD)
2. Workshop on Symbolic Data Analysis ; Vienna, Austria, 18-20 October 2009 (P. Brito)
3. 3rd International Workshop on Knowledge Discovery from Sensor Data (SensorKDD-2009) associated with ACM SIGKDD-09, Paris, July 2009 (J. Gama)
4. Data Streams track of ACM Symposium on Applied Computing, 2009 (J. Gama)
5. DIS 2009 – International Conference on the Dynamics of Information Systems, Gainesville, USA, February 2009. (Dalila Fontes)
6. Track on Computational Methods in Bioinformatics and Systems Biology (CMBSB 09) in the 14th Portuguese Conference on Articial Intelligence (EPIA 09) (Rui Camacho)

7. Ricardo Campos, 11th ACIS International Conference on Software Engineering Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD 2010), London, United Kingdom, 09 - 11 June.

Internationalization

Participation in Editorial Boards of Int. Journals:
1. 5 journals referred to on ISI
2. Machine Learning J. (P. Brazdil),
3. New Generation Computing (J. Gama),
4. Intelligent Data Analysis (J. Gama, P. Brazdil)
5. Advances in Data Analysis and Classification (P. Brito)
6. Comp. Statistics and Data Analysis (P. Brito)
7. 6 other international journals
8. J. of Comp. Intelligence and Bioinformatics (R. Camacho)

Visitors and working contacts with institutions abroad:
The following senior researchers have visited LIAAD and collaborated on research issues:
o   Dr. L. Popelinsky, U. Masaryk, Czech R.
o   Dr. Jarek Olejniczak, Poland
o   Prof. Dr. Stan Matwin, U. of Ottawa, Canada
o   Dr. André Carvalho, U. São Paulo, Brazil
o   Dr. Bruno Feres, U. São Paulo, Brazil
o   Dr. Albert Bifet, Technical U. of Catalonia, Spain
o   Dr. Fabrice Colas, U. Leiden, Netherlands

•   The following postgraduate students have visited LIAAD and collaborated with us on research issues:
o   Gintaré Grigonyté, Saarland U., Germany
o   Kaustubh Patil, Max Planck Inst. for Computer Science
o   Petr Kosina, Masaryk U., Czech Rep.
•   The following researchers visited other institutions and collaborated with us on research issues:
•   U. Polytecnica Madrid, Spain, Jan 2009, Contact: Ernestina, Menasalvas (J. Gama)
•   U. of Zurich, Switzerland, Feb 2009, contact: Ulrich Reimer (P.Brazdil)
•   U. of Konstanz, Germany, Feb 09, Michael Berthold, (J. Gama)
•   U. of Oxford, Aug 2009, contact: Vasile Palade (Alípio Jorge)
•   U. of Warwick, Aug 2009, contact: Sarab Anand (Alípio Jorge)
•   Monash U., Australia, Aug 2009, contact: Shonali Krishnaswamy (J. Gama)
•   U. of Queensland, Australia, Aug 2009, Contact: Xue Li (J. Gama)
7.4 Joint supervision of Theses (completed or in progress) – NÃO INTRODUZIDO
•   X Ph.D thesis (co-supervision with XX)
•   X M.Sc. theses (co-supervision with XX)

Projects
FCT VIP-ACCESS - Acesso Ubíquo à Web para Cegos, 18.900 EUR

Industry Contract Research

9. Palco 3.0 - QREN -2008-2011 - with company PalcoPrincipal - for the web space, www.palcoprincipal.pt

2008

Publications

Publications in Peer Review Journals (total 21)

1. Nuno Fonseca, Rui Camacho, Alexandre Magalhães: Amino acid pairing at the N- and C-termini of helical segments in proteins, Proteins: Structure, Function and Bioinformatics, Volume 70, Number 1, page 188--196 - January 2008 [ISI], ISI IF=3,354, C=4

2. Rita Ribeiro, Luís Torgo: A Comparative Study on Predicting Algae Blooms in Douro River, Portugal, Ecological Modelling - Selected Papers from the 5th European Conference on Ecological Modelling, Volume 212, Number 1-2, page 86--91 - March 2008 [ISI]], ISI IF=2,077, C=0

3. João Gama, Pedro Pereira Rodrigues, João Pedro Pedroso: Hierarchical Clustering of Time-Series Data Streams, IEEE Transactions on Knowledge and Data Engineering, Volume 20, Number 5, page 615--627 - May 2008 [ISI, DBLP], ISI IF=1,896, C=1

4. Jorge M. S. Valente, Rui A. F. S. Alves: Beam Search Algorithms for the Single Machine Total Weighted Tardiness Scheduling Problem with Sequence-Dependent Setups, Computers & Operations Research, Volume 35, Number 7, page 2388--2405 - July 2008 [ISI, DBLP], ISI IF=1,147, C=2

5. Jorge M. S. Valente, Rui A. F. S. Alves: Heuristics for the Single Machine Scheduling Problem with Quadratic Earliness and Tardiness Penalties, Computers & Operations Research, Volume 35, Number 11, page 3696--3713 - November 2008 [ISI, DBLP], ISI IF=1,147, C=0

6. Dalila Fontes: Fixed Versus Flexible Production Systems: A Real Options Analysis, European Journal of Operational Research, Volume 188, Number 1, page 169-184 - July 2008 [ISI, DBLP], ISI IF=1,096, C=0

7. José Fernando Gonçalves, Jorge José de M. Mendes, Mauricio G. C. Resende: A Genetic Algorithm for the Resource Constrained Multi-Project Scheduling Problem, European Journal of Operational Research, Volume 189, Number 3, page 1171--1190 - September 2008 [ISI, DBLP], ISI IF=1,096, C=3

8. Nuno Fonseca, Rui Camacho, Ricardo Rocha, Vitor Santos Costa: Compile the Hypothesis Space: Do it Once, Use it Often, Fundamenta Informaticae, Volume 89, Number 1, page 45--67 - 2008 [ISI, DBLP], ISI IF=0,693, C=0

9. Jorge M. S. Valente: Beam Search Heuristics for the Single Machine Early/ Tardy Scheduling Problem with no Machine Idle Time, Computers & Industrial Engineering, Volume 55, Number 3, page 663--675 - October 2008 [ISI], ISI IF=0,554, C=0

10. João Gama, Jesus S. Aguilar-Ruiz, Ralf Klinkenberg: Knowledge Discovery From Data Streams, Intelligent Data Analysis, Volume 12, Number 3, page 251--252 - 2008 [ISI, DBLP], ISI IF=0,446, C=0

11. Jose del Campo-Avila, Gonzalo Ramos-Jiménez, João Gama, Rafael Morales-Bueno: Improving the Performance of an Incremental Algorithm Driven by Error Margins, Intelligent Data Analysis, Volume 12, Number 3, page 305--318 - 2008 [ISI, DBLP], ISI IF=0,446, C=0

12. Edgar Pimenta, João Gama, André Carlos Ponce L. F. de Carvalho: The Dimension of Ecocs for Multiclass Classification Problems, International Journal on Artificial Intelligence Tools, Volume 17, Number 3, page 433--447 - June 2008 [ISI, DBLP], ISI IF=0,376, C=0

13. Adelaide Figueiredo: Two-way ANOVA for the Watson distribution defined on the hypersphere, Statistical Papers, Volume 49, Number 2, page 363--376 - April 2008 [ISI], ISI IF=0,338, C=0

14. Samuel Pereira, Paulo Sousa: Uncertainty and Information Accuracy in Adverse Selection, Economic Letters, Volume 100, Number 3, page 321--325 - September 2008 [ISI], ISI IF=0,302, C=0

15. Paulo Teles, William W. S. Wei, Erin M. Hodgess: Testing a Unit Root Based on Aggregate Time Series, Communications in Statistics - Theory and Methods, Volume 37, Number 4, page 565--590 - January 2008 [ISI], , ISI IF=0,240, C=0

16. Jorge M. S. Valente: An Exact Approach for the Single Machine Scheduling Problem With Linear Early and Quadratic Tardy Penalties, Asia-Pacific Journal of Operational Research, Volume 25, Number 2, page 169--186 - April 2008 [DBLP]

17. Nuno Escudeiro, Alipio M. Jorge: Satisfying Information Needs on the Web: a Survey of Web Information Retrieval, Tékhne - Revista de Estudos Politécnicos, Volume VI, Number 9, page 305--330 - June 2008

18. Dalila Fontes, Fernando A. Fontes: Optimal reorganization of agent formations, WSEAS Transactions on Systems and Control , Volume 3, Number 9, page 789--798 - September 2008

23. Dalila Fontes: On Minimum Concave Cost Network Flow Problems, International Journal of Pure and Applied Mathematics, Volume 49, Number 4, page 517--524 - 2008

24. Dalila Fontes, José Luís Camões, Fernando A. Fontes, Panos M. Pardalos: Real Options Using Markov Chains: An Application to Production Capacity Decisions, Journal of Computational Optimization in Economics and Finance, Volume 1, Number 1, page 1--16 - 2008

25. Campos, R., Dias, G., Nunes, C. and Nonchev, B. (2008). Clustering Web Page Search Results: A Full Text Based Approach. In International Journal of Computer and Information Science Vol 9(4). pp 29-40, ISSN 1525-9293.

Books by major international publisher (2)

1. A. R. Ganguly, João Gama, O. A. Omitaomu, M. M. Gaber, R. R. Vatsavai: Knowledge Discovery from Sensor Data, CRC Press, Volume 6 – December

2. Carlos Soares, Y. Peng, J. Meng, T. Washio, Z. H. Zhou: Applications of Data Mining in E-Business and Finance, IOS Press - August

3. Simões, M., Santos, D., Wolf, J., Oliveira, M. and Campos R. (2008). From Projects to Digital Regions. Main Challanges. Celta Editors Lisboa, Portugal. ISBN 978-972-774-258-5.

Proceedings of international workshops   not shown for lack of space

Book chapters by major international publisher (7):

1.Paula Brito : On the Analysis of Symbolic Data, in Selected Contributions in Data Analysis and Classification, Springer, page 13-22 – August

1.João Gama, Pedro P. Rodrigues: Electricity Load Forecast Using Data Streams Techniques, Knowledge Discovery from Sensor Data, CRC Press, Vol. 6, page 131-147 - December

2. João Gama, Pedro P. Rodrigues: Data Streams, in Encyclopedia of Data Warehousing and Mining, Information Science Reference, Vol. 2, page 561-565 - August

3. João Gama, Pedro P. Rodrigues: Learning From Data Streams, in Encyclopedia of Data Warehousing and Mining, Information Science Reference, Vol.3, page 1137-1141 - August

4. C. Giraud-Carrier, Pavel Brazdil, Carlos Soares, R. Vilalta: Meta-Learning
in Encyclopedia of Data Warehousing and Mining - 2nd Edition, Information Science Reference - IGI Global, Vol. 3 - August

5. Alipio Jorge, J. Poças, P. J. Azevedo: A Methodology for Exploring Association Models, in Visual Data Mining. Theory Techniques and Tools for Visual Analytics, Springer, Vol. 4404, page 46-59 - July [DBLP]

6. S. Konstantopoulos, Rui Camacho, N. Fonseca, V. S. Costa: Induction as a Search Procedure, in Artificial Intelligence for Advanced Problem Solving Techniques, IGI Global, page 166-216

7. Pedro P. Rodrigues, João Gama, L. Lopes: Requirements for Clustering Streaming Sensors, Knowledge Discovery from Sensor Data, CRC Press, Vol. 6, page 35-53 - December

Articles in books, international publisher, indexed in ISI Proceedings and/or DBLP (17)

1. Rui Camacho, N. Fonseca, R. Rocha, V. S. Costa: ILP: - Just Trie It, Inductive Logic Programming, Proceedings of the Int. Conf. On Inductive Logic Programming, Vol. 4894, page 78-87 - June [DBLP]

2. Marcos A. Domingues: An independent platform for the monitoring, analysis and adaptation of web sites, Proceedings of the 2008 ACM Conf. on Recommender Systems, page 299-302 - October [DBLP]

3. Marcos A. Domingues, Alipio Jorge, Carlos Soares: The impact of contextual information on the accuracy of existing recommender systems for web personalization

Proceedings of the Int. Conf. on Web Intelligence and Intelligent Agent Technology, Vol. 1, page 789-792 - December [DBLP]

4. E. Fernandes, Alipio Jorge, C. G. Silva, R. M. M. Brito: A Knowledge Discovery Method for the Characterization of Protein Unfolding Processes
Proceedings of the 2nd Int. Workshop on Practical Applications of Computational Biology and Bioinformatics, Vol. 49, page 180-188 - October [DBLP]

5. Carlos Ferreira, João Gama, V. S. Costa: RUSE-WARMR: Rule Selection for Classifier Induction in Multi-relational Data-Sets, Proceedings of the 20th IEEE Int. Conf. on Tools with Artificial Intelligence, Vol. 1, page 379-386 - November [ISIProc, DBLP]

6. N. Fonseca, V. S. Costa, Rui Camacho: k-RNN: k-relational nearest neighbour algorithm, Proceedings of the 23rd Annual ACM Symposium on Applied Computing, page 944-948 - March [DBLP]

7. Dalila Fontes, F. A. Fontes: Optimal Formation Switching, Proceedings of the 4th WSEAS/ IASME Int. Conf. on Dynamical Systems and Controls, page 41-47 - October [ISIProc]

8. João Gama, A. C. P. L. F. de Carvalho, J. S. Aguilar-Ruiz: Special Track on Data Streams: editorial message, Proceedings of the 23rd Annual ACM Symposium on Applied Computing, page 955 - March [DBLP]

9. E. Ikonotnovska, João Gama: Learning Model Trees from Data Streams
Discovery Science, Proceedings of the 11th Int. Conf. on Discovery Science, Vol. 5255, page 52-63 - October [ISIProc, DBLP]

10. C. Miranda, Alipio Jorge: Incremental collaborative filtering for binary ratings, Proceedings of the 2008 Int. Conf. on Web Intelligence and Intelligent Agent Technology, Vol. 1, page 389-392 - December [DBLP]

11. Pedro P. Rodrigues, João Gama: Robust Division in Clustering of Streaming Time Series, Proceedings of the 18th European Conf. on Artificial Intelligence, page 172-176 - July [DBLP]

12. Pedro P. Rodrigues, João Gama, L. Lopes: Clustering Distributed Sensor Data Streams, Machine Learning and Knowledge Discovery in Databases, Part II, Proceedings of the European Conf. ECML PKDD 2008, Vol. 5212, page 282-297 - September [ISIProc, DBLP]

13. Pedro P. Rodrigues, João Gama, Z. Bosnic: Online Reliability Estimates for Individual Predictions in Data Streams, Proceedings of the 8th IEEE Int. Conf. on Data Mining Workshops, page 36-45 - December [DBLP]

14. Raquel Sebastião, João Gama, T. Mendonça: Learning from Data Streams: Synopsis and Change Detection, Proceedings of the Fourth Starting AI Researchers Symposium, Vol. 179, page 163-174 - July [DBLP]

15. E. J. Spinosa, A. C. P. L. F. de Carvalho, João Gama: Cluster-based Novel Concept Detection in Data Streams Applied to Intrusion Detection in Computer Networks, Proceedings of the 23rd Annual ACM Symposium on Applied Computing, page 976-980 - March [DBLP]

16. P. Tomás, J. P. Leal, Marcos A. Domingues: A Web Application for Mathematics Education, Advances in Web Based Learning - Proceedings of the 6th Int. Conf. on Web-based Learning, Vol. 4823, page 380-391 - August [ISIProc, DBLP]

17. Brito, P. (2008): "COMPSTAT<http://www.springer.com/statistics/computanional+statistics/book/978-3-7908-2083-6>: Proceedings in Computational Statistics" - 18th Symposium Held in Porto, Portugal (ISBN: 978-3-7908-2083-6), with CD-ROM. Springer, Heidelberg, 574 pages.

14 other articles in conference / workshop proceedings - Not shown for lack of space

Communications (Oral) at International Scientific Meetings (2)

1. Brito, P. "Symbolic Data in Statistics : a Tutorial". Invited tutorial at the 16th Annual meeting of the Belgian Statistical Society, Wépion-Namur, Belgium, October 2008.

2. Brito, P. "Análise de Dados Simbólicos: Questões e Perspectivas. O caso particular dos Dados Intervalares<http://www.fep.up.pt/docentes/mpbrito/index_files/P_Brito_JOCLAD2008.pdf>". XV Jornadas de Classificação e Análise de Dados, JOCLAD 2008<http://www.esce.ips.pt/projectos/joclad08/>, Setúbal, Portugal, March 2008.

Thesis

PhD

1. Pedro Campos: Organizational Survival and the Emergence of Collaboration Networks: a Multi-Agent Approach, PhD thesis from Managerial Sciences, Faculty of Economics, University of Porto - 2008

2. Rui Leite: Selecção de Algoritmos de Classificação, PhD thesis from Departamento de Ciência de Computadores, Faculdade de Ciências da Universidade do Porto - 2008

3. João Mendes Moreira: Travel time prediction for the planning of mass transit companies: a machine learning approach, PhD thesis from Faculty of Engineering of University of Porto - 2008

MSc

1. Elizabeth Fernandes: Extracção de Conhecimento de Dados obtidos por simulação da Desnaturação Proteica, Master thesis from Data Analysis and Decision Support Systems, Faculty of Economics, University of Porto - 2008 [Supervisor: Alípio M. Jorge; Co-Supervisor: Rui Brito]

2. Susana Silva: Análise do Impacto da Pequena Geração dispersa sob diferentes directivas de regulação, Master thesis from Data Analysis and Decision Support Systems, Faculty of Economics, University of Porto - 2008 [Supervisor: Dalila Fontes; Co-Supervisor: N. Fidalgo]

3. Vera Maria Fernández de Campos, Master in Statistics and Information Management,Instituto Superior de Estatística e Gestão da Informação, New University

of Lisbon, 2008, Title: "Análise Simbólica de Dados e a sua aplicação na extracção de Informação de Estatísticas Oficiais: análise do Inquérito da Ocupação do Tempo."

4. Marta Alexandra Dias Afonso, Master in Statistics, Faculty of Sciences, University of Porto, 2008, Title:Classificação Aplicada à Segmentação de Imagem.", (Co-supervised by : Helena Brás Silva, ISEP, Instituto Politécnico do Porto).

Patents/Prototypes (12)

Prototypes (Software systems) (12):

1. A_MDS: A system to advice the user in the choice of learning algorithms. It uses performance measures observed in the past on several algorithms/datasets and results on samples of data to choose the best algorithms to use. (R. Leite)
2. EdMate: Web portal meta data analysis for web editor support.(Alípio Jorge, Carlos Soares and Marcos Domingues)
3. FRules Regression Rule system for predicting outliers (Ribeiro, R., Torgo, L.)
4. Functional Trees for Classification and Regression: Decision tree learning algorithm that can use multivariate splitting tests, and functions at leaves to classify test examples.
5. 5.MASOS: Multi-Agent System for Organizational Survival (P. Campos)
6. Mneson: a database system based on a graph model of data and Minibrain: generic module for spreading activation (M. Alves)
7. NetOrg: Networks of Organizations for Cooperation Purposes (P. Campos)
8. Rcaren: R interface for association rule mining, recommender systems and subgroup discovery. (Alípio Jorge)
9. Sumgraph - Automatic summarization of text (Kaustubh Patil, P.Brazdil)
10. UFFT: Ultra Fast Forest Tree system: Is an incremental decision tree learning algorithm, that uses a fast criteria, based on quadratic discriminant analysis, for choosing the split test.
11. VFDTc: Very Fast Decision Tree for continuous attributes: Extends the VFDT system in two directions: the ability to deal with continuous data and the use of naive Bayes classifiers at tree leaves.
12. WebTopic: focused web retrieval from the web. (Nuno Escudeiro and Alípio Jorge)

Organization of Conferences

Dalila Fontes, Conference on Computational Neuroscience, Gainesville, USA, February 2008.

Dalila Fontes, CCO 2008 – 8th International Conference on Cooperative Control and Optimization, Gainesville, USA, January 2008.

João Gama, ACM-SAC Data Streams track in conjunction with ACM Symposium on Applied Computing, 2008, Brazil.

Paula Brito, International Conference on Computational Statistics COMPSTAT 2008, Porto

Alipio Jorge, WTI 2008, International Workshop on Web and Text Intelligence, 2008, Salvador da Bahia, Brazil

Projects

FCT VIP-ACCESS - Acesso Ubíquo à Web para Cegos, 18.900 EUR

Industry Contract Research

1. 8.939,00€ Euros, FCT (project Sumo)
2. 26.725,86€ Euros, FCT (project Site-O-Matic)
3. 7.558,27€ Euros, FCT (project Triana)
4. 3.600,00€ Euros, FCT (project Alesii)
5. 30.499,80€ Euros, FCT (project PTDC/GES/72244/2006)
6. 18.164,00€ Euros, FCT (project O-Ranki)
7. 9.828,00€ Euros, FCT (project Morwak)
8. 1.500,00€ Euros, FCT (project Stampa)
9. 44.000,00€ Euros, FCT (project ILP web Services)

2007

Organization of Conferences (9)

1. ACM - SAC07 Data Streams Track, organized by João Gama, Jesus Aguilar, Ralf Klinkenberg Francisco Ferrer, in conjunction with ACM Symposium on Applied Computing: The 22nd Annual ACM Symposium on Applied Computing in Seoul, Korea, March 11 - 15, 2007.
2. Data Mining for Business, organized by Carlos Soares, Yonghong Peng, Jun Meng, co-located with PAKDD 2007, Nanjing, China, May 2007.
3. Optimization 2007, organized by J.F. Gonçalves, .. D. Fontes .. J. Valente, FEP, Porto, Portugal, July 2007.
4. ACM SIGKDD Knowledge Discovery from Sensor Data - KDD07, organized by Auroop R. Ganguly, Joao Gama, Olufemi A. Omitaomu, Mohamed Medhat Gaber, Ranga Raju Vatsavai, held in conjunction with KDD07, S. Jose, US, August 2007
5. Planning to Learn Workshop (PlanLearn 2007), organized by Pavel Brazdil, Abraham Bernstein, held at ECML/ PKDD 2007, Warsaw, Poland, September 2007.
6. International Workshop on Knowledge Discovery from Ubiquitous Data Streams (IWKDUDS 2007), organized by João Gama, Mohamed M. Gaber, Jesus S. Aguilar Ruiz, held at ECML/ PKDD 2007, Warsaw, Poland, September 2007
7. Workshops of the International Conference on Artificial Neural Networks (ICANN 07), Workshop chairs: Carlos Soares, Paulo Cortez, Porto, Portugal, September 2007
8. International Workshop on Learning from Massive Data, organized by Francisco J. Ferrer-Troyano, Pedro P. Rodrigues, Salamanca, Spain, November 2007. 9.Workshop on Computational Methods in Bioinformatics and Systems Biology (CMBSB 2007), organized by Rui Camacho and Miguel Rocha, associated with 13th Portuguese Conference on Artificial Intelligence (EPIA 07), Guimarães, Portugal, December 2007.