

Overview

1. Personal data

Full Name

Maribel Yasmina Campos Alves Santos

Name under which you publish

Maribel Yasmina Campos Alves Santos

Fiscal ID number

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Birth date

27-07-1968

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F

Work address

Universidade do Minho
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2. Academic degrees

Year: 2001

Degree: DOUTORAMENTO

Final grade: Aprovado por unanimidade

Degree granting institution Universidade do Minho

School/College/Campus Escola de Engenharia

Thesis title Padrão - Um sistema de descoberta de conhecimento em bases de dados geo-referenciadas (PhD)

Supervisor: Luis Alfredo Amaral

Co-supervisor:

Scientific area Tecnologias e Sistemas de Informação

Program title Doutoramento em Tecnologias e Sistemas de Informação

Year: 1996

Degree: MESTRADO

Final grade: Muito Bom

Degree granting institution Universidade do Minho

School/College/Campus Escola de Engenharia

Thesis title Padrão de evolução da função SI nos Serviços de Informática de Grande Dimensão da Administração Pública Portuguesa

Supervisor:

Co-supervisor:

Scientific area Sistemas de Informação

Number of curricular years 0

Program title

Year: 1991

Degree: LICENCIATURA

Final grade: 14

Degree granting institution Universidade do Minho

School/College/Campus Escola de Engenharia

Thesis title

Supervisor:

Co-supervisor:

Scientific area

Number of curricular years 0

Program title

Year: 2012

Degree: AGREGAÇÃO

Final grade: Aprovado por unanimidade

Degree granting institution Universidade do Minho

School/College/Campus Escola de Engenharia

Thesis title n/a

Supervisor: n/a

Co-supervisor:

Scientific area Tecnologias e Sistemas de Informação

Program title n/a

3. Previous activity and current status

Período	Cargo, categoria ou actividade	Instituição
01-11-2001 a	Integrated researcher.	ALGORITMI Research Centre.
01-4-2011 a 01-6-2015	Member of the Council Board.	Association of Geographic Information Laboratories in Europe (AGILE)
01-5-2013 a 01-6-2015	Secretary-General	Association of Geographic Information Laboratories in Europe (AGILE)
01-5-2010 a 01-7-2014	Associate-Director, Department of Information Systems, School of Engineering.	Universidade do Minho.
05-12-2012 a	Professor Associado com Agregação (Associate Professor with Habilitation)	Universidade do Minho
03-5-2012 a 04-12-2012	Professora Auxiliar com Agregação (Assistant Professor with Habilitation)	Universidade do Minho
16-3-1992 a 30-9-1996	Assistente Estagiária (Stagier Assistant)	Universidade do Minho
01-10-1996 a 26-11-2001	Assistente (Assistant)	Universidade do Minho
27-11-2001 a 02-5-2012	Professora Auxiliar (Assistant Professor)	Universidade do Minho

4. Area of scientific activity

Scientific area: Information Systems

Main research interests: Business Intelligence and Analytics

Overview of the scientific activity:

Maribel Yasmina Santos (Habilitation, PhD) is an Associate Professor (with tenure) at the Department of Information Systems, University of Minho, Portugal. She is the leader of the research track "business and location-enhanced database systems" of the Software Engineering and Management Group (<http://semag.algoritmi.uminho.pt>) of the ALGORITMI Research Centre (<http://algoritmi.uminho.pt/>).

Her research interests include business intelligence and analytics, big data storage and analytics, (spatial) data warehousing, (spatial) data mining and (spatial) on-line analytical processing. In an overall perspective, making available the appropriate data and tools that support decision-making in organisations. A strong focus exists in analytics for spatio-temporal data due to the increasingly collection and availability of geospatial data. In this context, Maribel Yasmina Santos works on methods, frameworks and analytics that enhance user perception about spatio-temporal phenomena.

She was the Associate Director of the Department of Information Systems, University of Minho, Portugal, from May 2010 to July 2014, and member of the AGILE council (Association of Geographic Information Laboratories for Europe, <http://www.agile-onlie.org>), from April 2011 to June 2015. She was the Secretary-General of AGILE (Association of Geographic Information Laboratories for Europe, <http://www.agile-onlie.org>) from May 2013 to June 2015.

She is author or co-author of more than 110 international publications, including books, book chapters and papers in scientific journals and international conferences. She integrated the scientific or organizing committee of more than 80 international conferences and is co-inventor of two patents, one national (Portuguese) and one international (US).

She is member of the Association of Information Systems (<http://www.aisnet.org>).

Editorial activity:

Member of the Editorial Board of the International Journal of Data Mining, Modelling and Management, since October, 2008, ISSN/E-ISSN: 1759-1163/1759-1171 (Indexed by SCOPUS since October, 2011).

Member of the Editorial Board of the International Journal on Advances in Intelligent Systems, since January 2012, ISSN: 1942-2679.

Member of the Editorial Board of the RISTI, Revista Ibérica de Sistemas e Tecnologias de Informação, desde Abril de 2013, ISSN: 1646-9895 (Indexed by ISI, Q3).

Organizing conferences committees:

- Track Co-Chair "Quality Aspects in Big Data Systems", of the International Conference on the Quality of Information and Communications Technology (IDEAS'16), Lisbon, Portugal, September 6 – 9, 2016.

- Programme co-chair of the 19th AGILE Conference on Geographic Information Science, Helsinki, Finland, 14-17 June, 2016.

- International Liaison Chairs, 16th International Conference on Computational Science and Applications (ICCSA'2016), July 4-7, 2016, Beijing, China.

- International Liaison Chairs, 15th International Conference on Computational Science and Applications (ICCSA'2015), June 22-26, 2015, Banff, Canada.

- Programme co-chair of the 18th AGILE Conference on Geographic Information Science, Lisbon, Portugal, 9-12 June, 2015.

- Organizing Committee, ST-Analytics'2014, Advances in Spatio-Temporal Analytics Workshop, 14th International Conference on Computational Science and Applications (ICCSA 2014), June 30-July 3, 2014, Guimarães, Portugal.

- Organizing Committee, 14th International Conference on Computational Science and Applications (ICCSA 2014), June 30-July 3, 2014, Guimarães, Portugal.

- Chair of track "Business and process techniques" da Eighth International Conference on Software Engineering Advances (ICSEA'2013), Venice, Italy, 27 October – 1 November, 2013.

- Chair of track "Business-driven IT" da Third International Conference on Business Intelligence and Technology (BUSTECH'2013), Valencia, Spain, 27 May – 1 June 2013.

- Chair of track "Business and process techniques" of the Seventh International Conference on Software Engineering Advances (ICSEA'2012), Lisboa, Portugal, 18-23 November, 2012.

- Chair of track "Business-driven IT" of the Second International Conference on Business Intelligence and Technology (BUSTECH 2012), Nice, France, 22-27 July, 2012.

- Chair of track "Business and process techniques" of the Sixth International Conference on Software Engineering Advances (ICSEA'2011), Barcelona, Spain, 23-28 October, 2011.

- Chair of track "Business-driven IT" of the First International Conference on Business Intelligence and Technology (BUSTECH 2011), Rome, Italy, 25-30 September, 2011.

- Programme Co-Chair da 13th AGILE Conference on Geographic Information Science, Guimarães, Portugal, 10-14 May, 2010.

1997, 2000.

- Member of the Organizing Committee of the 8th AGILE Conference on Geographic Information, Estoril, Portugal, 26-28 Maio, 2005.
- Member of the Organizing Committee of the Third International Conference on Application of Concurrency to System Design, Guimarães, Portugal, 18-20 June, 2003.

Scientific and program conferences committees (CC):

- CC80 3rd. International Conference on Data Science and Advanced Analytics (DSAA'16), Special Session on Environmental and Geo-spatial Data Analytics (EnGeoData), Montreal, Canada, October 17 – 19, 2016.
- CC79 International Conference on the Quality of Information and Communications Technology (Quatic'16), Lisbon, Portugal, September 6 – 9, 2016.
- CC78 20th International Database Engineering & Applications Symposium (IDEAS'16), Montreal, Canada, July 11 – 13, 2016.
- CC77 16ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2016), Porto, Portugal, 22-24 de Setembro, 2016.
- CC76 First International Conference on Smart Data/Smart Cities (SDSC'2016), 07-09 September, Split, Croatia, 2016.
- CC75 Eighth International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA'2016), Lisbon, Portugal, June 26-30, 2016.
- CC74 International Conference on Business Intelligence and Technology (BUSTECH 2016), March 20-24, Rome, Italy, 2016.
- CC73 Membro da Comissão Científica 19th AGILE Conference on Geographic Information Science, Helsinki, Finland, 14-17 June, 2016.
- CC72 Workshop Business Intelligence in Organizations of the "3rd World Conference on Information Systems and Technologies" (WorldCIST'2015), 01-03 April, Azores, Portugal, 2015.
- CC71 15th International Conference on Computational Science and Its Applications (ICCSA'2015), 22-25 June, Banff, Canada, 2015.
- CC70 International Conference on Knowledge Discovery and Data Analysis (KDDA'2015), Alger, Argelia, 15-18 November, 2015.
- CC69 19th International Database Engineering & Applications Symposium (IDEAS'15), Yokohama, Japan, July 13 – 15, 2015.
- CC68 15ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2015), Lisboa, Portugal, 2-3 de Outubro, 2015.
- CC67 18th AGILE Conference on Geographic Information Science, Lisbon, Portugal, 9-12 June, 2015.
- CC66 Seventh International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA'2015), Rome, Italy, May 24 - 29, 2015.
- CC65 Fifth International Conference on Business Intelligence and Technology (BUSTECH 2015), March 22 - 27, Nice, France, 2015.
- CC64 14ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2014), Santarém, Portugal, 3-4 de Outubro, 2014.
- CC63 18th International Database Engineering & Applications Symposium (IDEAS'14), Porto, Portugal, July 7 – 9, 2014.
- CC62 Sixth International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA'2014), Chamonix, France, April 20 - 24, 2014.
- CC61 I Jornadas Lusófonas de Ciências e Tecnologias de Informação Geográfica (CTIG'2014), Coimbra, Portugal, September 11-13, 2014.
- CC60 Fourth International Conference on Business Intelligence and Technology (BUSTECH 2014), May 25 - 29, Venice, Italy, 2014.
- CC59 ST-Analytics'2014, Advances in Spatio-Temporal Analytics Workshop, 14th International Conference on Computational Science and Applications (ICCSA 2014), June 30-July 3, 2014, Guimarães, Portugal.
- CC58 14th International Conference on Computational Science and Applications (ICCSA 2014), June 30-July 3, 2014, Guimarães, Portugal.
- CC57 9ª Conferência Ibérica de Sistemas e Tecnologias de Informação, Barcelona, Spain, 18 e 21 de Junho de 2014.
- CC56 17ª AGILE International Conference on Geographical Information Science (AGILE'2014), Castellón, Spain, 3-6 June, 2014.
- CC55 13ª Conferência da Associação Portuguesa de Sistemas de - Informação (CAPSI 2013), Évora, Portugal, 4-5 de Outubro, 2013.
- CC54 Eighth International Conference on Software Engineering Advances (ICSEA'2013), Venice, Italy, October 27 - November 1, 2013.
- CC53 Special Track on Data and Information Quality in Healthcare Management (DQHC'2013), 26th International Symposium on Computer-Based Medical System (CBMS'2013), Porto, Portugal, 20-22 Junho, 2013.
- CC52 Fourth IberoAmerican Workshop on Data Quality (IAwDQ'2013) da 8ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI'2013), Lisboa, Portugal, 19-23 Junho, 2013.
- CC51 Thirth International Conference on Business Intelligence and Technology (BUSTECH 2013), Valencia, Spain, May 27 - June 1, 2013.
- CC50 8ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI'2013), Lisboa, Portugal, 19-23 Junho, 2013.
- CC49 16ª AGILE International Conference on Geographical Information Science (AGILE'2013), Leuven, Belgium, 14-17 Maio, 2013.
- CC48 Fifth International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA'2013), Seville, Spain, January 27 - February 1, 2013.
- CC47 Seventh International Conference on Software Engineering Advances (ICSEA'2012), Lisboa, Portugal, 18-23 November, 2012.
- CC46 IADIS Ibero-Americana WWW/Internet 2012 (CIAWI 2012) Conference, Madrid, Espanha, 18-20 Outubro, 2012.
- CC45 12ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2012), Guimarães, Portugal, 7 de Setembro, 2012.
- CC44 Complex Data Mining in a GeoSpatial Context Workshop da 15ª AGILE International Conference on Geographical Information Science (AGILE'2012), Avignon, França, 24-27 Abril, 2012.
- CC43 Third IberoAmerican Workshop on Data Quality (IAwDQ'2012) da 7ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI'2012), Madrid, Espanha, 20-23 Junho, 2012.
- CC42 Second International Conference on Business Intelligence and Technology (BUSTECH 2012), Nice, France, 22-27 July, 2012.
- CC41 7ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI'2012), Madrid, Espanha, 20-23 Junho, 2012.
- CC40 15ª AGILE International Conference on Geographical Information Science (AGILE'2012), Avignon, França, 24-27 Abril, 2012.
- CC39 Fourth International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA'2012), Reunion Island, 29 February-5 March, 2012.
- CC38 Sixth International Conference on Software Engineering Advances (ICSEA'2011), Barcelona, Spain, 23-28 October, 2011.
- CC37 11ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2011), Lisboa, Portugal, 19-21 Outubro, 2011.
- CC36 First International Conference on Business Intelligence and Technoloav (BUSTECH 2011). Rome. Italv. 25-

30 September, 2011.

- CC35 "Gestão de Dados e Conhecimento" do INForum 2011, 3º Simpósio Nacional de Informática, Universidade de Coimbra, Portugal, 08-09 Setembro, 2011.
- CC34 6ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI'2011), Chaves, Portugal, 15-18 Junho, 2011.
- CC33 Second IberoAmerican Workshop on Data Quality (IAWDQ'2011) da 6ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI'2011), Chaves, Portugal, 15-18 Junho, 2011.
- CC32 14ª AGILE International Conference on Geographical Information Science (AGILE'2011), Utrecht, The Netherlands, 18-21 Abril, 2011.
- CC31 Third International Conference on Advances in Databases, Knowledge, and Data Applications (DBKDA'2011), St. Maarten, The Netherlands Antilles, 23-28 Janeiro, 2011.
- CC30 "Gestão e Tratamento de Informação" do INForum 2010, 2º Simpósio Nacional de Informática, Universidade do Minho, Portugal, 09-10 Setembro, 2010.
- CC29 7th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD'10), Yantai, China, 10-12 Agosto, 2010.
- CC28 Programme Co-chair da 13ª AGILE International Conference on Geographical Information Science (AGILE'2010), Guimarães, Portugal, 11-14 Maio, 2010.
- CC27 13ª AGILE International Conference on Geographical Information Science (AGILE'2010), Guimarães, Portugal, 11-14 Maio, 2010.
- CC26 10ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2010), Instituto Politécnico de Viana do Castelo, Portugal, 20-22 Outubro, 2010.
- CC25 First IberoAmerican Workshop on Data Quality (IAWDQ'2010) da 5ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI 2010), Santiago de Compostela, Espanha, 16-19 Junho, 2010.
- CC24 5ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI 2010), Santiago de Compostela, Espanha, 16-19 Junho, 2010.
- CC23 11º Encontro de Utilizadores de Informação Geográfica (myESIG'2010), Lisboa, Portugal, 10-12 Fevereiro, 2010.
- CC22 9ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2009), Instituto Politécnico de Viseu, Portugal, Outubro, 2009.
- CC21 "Processamento de Dados, Informação e Linguagem" do INForum 2009, Universidade de Lisboa, Portugal, 10-11 Setembro, 2009.
- CC20 4ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI 2009), Póvoa de Varzim, Portugal, 17-20 Junho, 2009.
- CC19 8ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2008), Setúbal, Portugal, 29-31 Outubro, 2008.
- CC18 XV Jornadas de Classificação e Análise de Dados, Setúbal, Portugal, 27-29 Março, 2008.
- CC17 15º Encontro Português de Inteligência Artificial (EPIA 2007), Guimarães, Portugal, 3-7 Dezembro, 2007.
- CC16 2ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI 2007), Porto, Portugal, 21-23 Junho, 2007.
- CC15 2007 Information Resources Management Association (IRMA) International Conference, Vancouver, Canada, 19-23 Maio, 2007.
- CC14 7ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2006), Aveiro, Portugal, 17-19 Janeiro, 2007.
- CC13 1ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI 2006), Esposende, Portugal, 21-23 Junho, 2006.
- CC12 2nd International Conference on Knowledge Engineering and Decision Support, ICKEDS'2006, Lisboa, Portugal, 9-12 Maio, 2006.
- CC11 II Jornadas Internacionais de Vestígios do Passado, Miranda do Douro, 21-22 Abril, 2006.
- CC10 Data Gadgets 2005 – Bringing Up Emerging Solutions for Data Warehousing Systems, Workshop da JISBD'2005, Granada, Espanha, 13 de Setembro, 2005.
- CC9 6ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI), Bragança, Portugal, 26-28 Outubro, 2005.
- CC8 III Congresso Internacional de Investigação e Desenvolvimento Sócio-cultural, Elvas, Portugal, 27-29 Outubro, 2005.
- CC7 8th AGILE Conference on Geographic Information, Estoril, Portugal, 26-28 Maio, 2005.
- CC6 I Jornadas Internacionais de Vestígios do Passado, Barcelos, 29-30 Abril, 2005.
- CC5 Data Gadgets 2004: Bringing Up Emerging Solutions for Data Warehousing Systems, Workshop da JISBD'2004, Málaga, Espanha, 9 de Novembro de 2004.
- CC4 II Congresso Internacional de Investigação e Desenvolvimento Sócio-Cultural, Paredes de Coura, 28-30 de Outubro de 2004.
- CC3 1st. International Conference on Knowledge Engineering and Decision Support, ICKEDS'2004, Porto, Portugal, 19 a 23 de Julho de 2004.
- CC2 ICIS 2003 – International Conference on Information Systems, a convite do Prof. João Álvaro Carvalho, Associate Editor.
- CC1 12º Encontro Português de Computação Gráfica - EPCG 2003, Instituto Superior de Engenharia do Porto, 8-10 Outubro de 2003.

5. Present research interest

Domain of specialization

Business Intelligence and Analytics, and the new focus in Big Data Analytics, with particular attention being given to data warehousing and analytical techniques and tools, such as on-line analytical processing or data mining. In the decision-making process, special attention is given to the spatio-temporal component of the data, reason why many research works address spatial data warehousing, spatial data mining, spatial on-line analytical processing, spatio-temporal data models and spatial reasoning.

In terms of classification for international professional associations:

- Association for Information Systems (AIS) Topics: Decision Support and Analytics (SIGDSA); Geographic Information Systems (SIGGIS) and Big Data Application Processes (SIG-BD).
- IFIP Topics: Technical Committee TC8 Information Systems – WG 8.3: Decision Support Systems.
- ACM Topics: H. Information Systems, H.2. Database management, H.2.1 Logical Design, H.2.8 Database applications.

Current research interests

The current research interests are mainly focused in:

- Data Warehousing for Big Data, given the increasing need to collect, store, process and analyze huge amounts of Data.
- Organizing data for analytical purposes: data models.
- Data Analytics for decision support and the relevance of the geo-spatial component of the data in decision-making.
- Envisaging Business Intelligence and Analytics systems, integrating data warehousing systems for data storage, and on-line analytical processing and data mining for data analysis.

Other professional interests/activities

Secretary-General of AGILE (Association for Geographic Information Laboratories in Europe), May 2013 - June 2015 (<http://www.agile-online.org/>).

Member of the Editorial Board of the International Journal on Advances in Intelligent Systems, since January 2012, ISSN: 1942-2679.

Member of the Editorial Board of the International Journal of Data Mining, Modelling and Management since October 2008, ISSN/E-ISSN: 1759-1163/1759-1171 (Indexed by SCOPUS since October, 2011).

Committees of conferences (more than 80 committees).

Inventor of 2 patents.

Associate Director of the Information Systems Department, University of Minho, May 2010 - Jul 2014.

6. Experience as scientific adviser

PhD Thesis (concluded supervisions):

- Estrela Ferreira da Cruz, Derivation of Data-Driven Software Models from Business Process Representations, Programa Doutoral em Tecnologias e Sistemas de Informação (PhD in Information Systems and Technologies), Universidade do Minho. 2016 (co-supervision with Doutor Ricardo Machado (DSI/UM)).

- Óscar Narciso Mortágua Pereira. Title: DACA: Architecture to Implement Dynamic Access Control Mechanisms on Business Tier Components, MAPI: Doutoramento em Informática, Universidade de Aveiro, 2013 (co-supervision with Rui Aguiar, Universidade de Aveiro).

- Maria Beatriz Guerra da Piedade. Title: Business Intelligence no suporte ao conceito e à prática de Student Relationship Management em Instituições de Ensino Superior, Programa Doutoral em Tecnologias e Sistemas de Informação (PhD in Information Systems and Technologies). 2012.

- Elisabeth Simão Carvalho. Title: CHUB - Um Modelo Cartográfico para a Visualização e Análise do Corpo Humano. Doutoramento em Tecnologias e Sistemas de Informação (PhD in Information Systems and Technologies). (co-supervising with Adérito Fernandes Marcos of Departamento de Sistemas de Informação of Universidade do Minho). 2008.

Master Thesis (concluded supervisions):

- Rui Flávio Gonçalves da Silva, Data Mining na Caracterização Geo-Espacial e Previsão da Incidência da Pneumonia em Portugal, Mestrado integrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2016.

- João Laureano Gonçalves Alves, Sistema de Business Intelligence no Projeto Educativo de Guimarães, Mestrado integrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2015.

- José Manuel Pereira Antunes, Business Intelligence no suporte às Autarquias Locais e à sua Gestão Orçamental, Mestrado integrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2015.

- Carina Sofia Marinho de Andrade, Text Mining na Análise de Sentimentos em Contextos de Big Data, Mestrado integrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2015.

- Carlos Filipe Machado da Silva Costa. Title: BASIS: Uma Arquitectura de Big Data para Smart Cities, Mestrado integrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2015.

- Luís Filipe Cruz Ramos. Title: Detecção e caracterização geo-spatial das zonas de acumulação de acidentes rodoviário, Mestrado integrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2015.

- David José Alves Ribeiro. Title: Intelligent Mobility – Business Intelligence sob uma perspectiva Geográfica, Mestrado integrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2014.

- Mickael Santos Creolo. Title: Conceção e Projeto de Data Warehouse: Olhar o Futuro do Ensino Básico e Secundário em Portugal, Mestrado em Sistemas de Informação (Master in Information Systems), Universidade de Aveiro (in co-supervision with Óscar Pereira). 2014.

- Vera Liliana Pereira Leite. Title: Business Intelligence no estudo das Pneumonias e da sua incidência em Portugal, Mestrado integrado em Engenharia de Comunicações (Master in Communications Engineering), Universidade do Minho. 2014.

- Cátia Menezes. Title: Big City Data – Uma nova dimensão sobre as Cidades, Mestrado integrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2014.

- João Rui Magalhães Velho da Cunha Galvão. Title: Clustering de vastos volumes de dados com o SNNagg, Mestrado integrado em Engenharia de Comunicações (Master in Communications Engineering), Universidade do Minho. 2014.

- José Guilherme Cruz Moreira. Title: Input Parameters Self-Tuning on the SNN (Shared Nearest Neighbour) Algorithm. Mestrado em Engenharia e Gestão de Sistemas de Informação. Universidade do Minho (Master in

Information Systems Management and Engineering), University of Minho. 2013.

- João Ricardo Leite Mota Oliveira. Title: Spatio-temporal SNN: Integrating Time and Space in the Clustering Process, Mestrado em Engenharia e Gestão de Sistemas de Informação, Universidade do Minho, Master in Information Systems Management and Engineering), Universidade do Minho. 2013.
- Sandra Raquel Martins Antunes. Title: Sistema de Business Intelligence da Fundação Portuguesa do Pulmão: geração de indicadores de incidência de doenças pulmonares, Mestrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2013.
- Sérgio António Ramos da Costa. Title: Sistema de Business Intelligence como suporte à gestão estratégica, Mestrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 12/12/2012.
- Mário José Matos Braga, Title: Sistemas e Serviços de Informação Geográfica no Suporte à Plataforma One.Stop.Transport, Mestrado em Engenharia e Gestão de Sistemas de Informação, (Master in Information Systems Management and Engineering), Universidade do Minho. 2012. (co-supervising with Doutor Adriano Moreira, Departamento de Sistemas de Informação da Universidade do Minho).
- Arménio António Fernandes Antunes, Title: Análise Espacial de Grandes Quantidades de Dados de Movimento Usando Técnicas de Clustering Baseadas em Densidade, Mestrado em Engenharia e Gestão de Sistemas de Informação, (Master in Information Systems Management and Engineering), Universidade do Minho. 2012 (co-supervising with Doutor Adriano Moreira, Departamento de Sistemas de Informação da Universidade do Minho).
- Ricardo Manuel Gonçalves Dinis, Title: Padrões de Incidência Geográfica das Doenças Pulmonares Obstrutivas Crónicas e da Asma em Portugal, Mestrado em Engenharia e Gestão de Sistemas de Informação, (Master in Information Systems Management and Engineering), Universidade do Minho. 2011.
- Alexandre Manuel da Silva Ribeiro, Title: Sistema de Business Intelligence para a análise de Doenças Respiratórias, Mestrado em Engenharia e Gestão de Sistemas de Informação, (Master in Information Systems Management and Engineering), Universidade do Minho. 2011.
- Freddy Dinis Rodrigues Gonçalves, Title: STAR: Um Sistema de Informação Espaço-Temporal para Objectos Móveis, Mestrado Integrado em Engenharia de Comunicações, (Master in Communications Engineering), Universidade do Minho. 2011.
- José Miguel Ribeiro Mendes, Title: STAR: Um Sistema de Armazenamento, Análise e Visualização de Dados sobre o Movimento Humano, Mestrado em Engenharia e Gestão de Sistemas de Informação, (Master in Information Systems Management and Engineering), Universidade do Minho. 2010.
- Diana dos Santos Gonçalves. Title: Implementação de um Sistema de Business Intelligence para a análise da qualidade de vida pré e pós-operatória, Mestrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2009.
- Paulo Jorge Sousa Pedras de Freitas. Title: Sistemas Espaciais de Suporte à Decisão - Apoio às Actividades de Negócio, Mestrado em Engenharia e Gestão de Sistemas de Informação (Master in Information Systems Management and Engineering), Universidade do Minho. 2009.
- Lúcia Pires Torrão Magaia. Title: O papel dos sistemas de suporte à decisão na análise da qualidade da água, Mestrado em Sistemas de Dados e Processamento Analítico (Master in Data System and Analytical Processing), Universidade do Minho. 2009.
- Marco Aurélio Amaro Oliveira. Title: Informação Geográfica: uma proposta para o seu acesso distribuído e interoperável baseado na Internet, Mestrado em Sistemas de Informação (Master in Information Systems), Universidade do Minho. 2008.
- Suzete Maria da Silva Martins de Almeida. Title: Modelo para a disseminação de Informação Geográfica nas Autarquias Locais, Mestrado em Sistemas de Informação (Master in Information Systems), Universidade do Minho. 2007.
- Nuno Gabriel Silva Borges Guedes. Title: Sistemas de Apoio à Decisão em Tempo Real: áreas de intervenção em Data Warehousing, Mestrado em Sistemas de Informação (Master in Information Systems), Universidade do Minho. 2006.
- Luís António Ribeiro Chorão. Title: Credit Scoring: Logit vs. Redes Neuronais Artificiais – Um exemplo aplicado a cartões de crédito, Mestrado em Estatística e Gestão da Informação (Master in Statistic and Information Management), Instituto Superior de Estatística e Gestão da Informação, Universidade Nova de Lisboa. 2006.
- Sílvia Margarida da Costa Dias. Title: Sistema de Análise dos Parâmetros Físicos e Geográficos das Fibras de Algodão utilizando técnicas de Data Mining, Mestrado em Sistemas de Informação (Master in Information Systems), Universidade do Minho. (co-supervising of Doutora Rosa Vasconcelos of Departamento de Engenharia Têxtil of Universidade do Minho). 2005.
- Natália Maria da Costa Botica. Title: O Data Mining na construção de conhecimento arqueológico (estudo de caso - povoamento proto-histórico e romano em Trás-os-Montes Oriental), Mestrado em Sistemas de Informação (Master in Information Systems) da Universidade do Minho (with co-supervising of Doutor Francisco Sande Lemos da Unidade de Arqueologia da Universidade do Minho). 2005.

7. Participation in R&D projects

Participação em projectos de investigação (coordenador/membro de equipas)

Ongoing Projects:

"Deus ex Machina: Symbiotic technology for societal efficiency gains", NORTE-01-0145-FEDER-000026. Partner research centres: Fraunhofer AICOS (Fraunhofer Portugal Research Centre for Assistive Information and Communication Solutions), ALGORITMI, 2C2T, CPUP, CIDESD, CITAB, CINTESIS. Duration: 2016-2019. Total Funding: €2.210.436,45. University of Minho funding: €512.681,87

"Innovative Car HMI (iFACTORY: new industrialization concepts)", Funded by Portugal 2020 (Compete 2020, EU – Fundos Europeu Estruturais e de Investimento). Partners: Universidade do Minho – BOSCH (University – Industry R&D Collaboration). Duration: 2015-2018. Total funding: €57.400.000,00. University of Minho Funding:

€21.900.000,00

"SusCity: Urban data driven models for creative and resourceful urban transitions project" (MITP-TB/CS/0026/2013), FCT under the 2013 Call for Test-bed Proposals under the MIT Portugal Program. Research partners: INESC-TEC, U. Porto, MIT, U. Coimbra, LNEG, FCUL-U. Lisboa, IDMEC-IST, IST-ID-U. Lisboa, ALGORITMI-U. Minho and partner institutions: EDP Distribuição, Câmara Municipal de Lisboa, IBM, ADENE, ITDS, R&D Nester, Novabase. Duration: 2015-2017. Total funding: €1.253.000,00.

Concluded National Projects:

"DoIt: Desenvolvimento e Operacionalização da Investigação de Translação" (MyHealth)

- Start Date: 01/07/2011
- Duration: 42 months
- Funding Agency: Agência de Inovação, S.A.
- Consortium: Têxtil Manuel Gonçalves (Promotor), Frulact, Flux, Universidade do Minho, Centros Hospitalares do Alto Ave (Guimarães/Fafe) e Alto Minho (Viana do Castelo/Ponte de Lima)
- Funding: 1.380.090€ (Global Universidade do Minho)/ 174.000€ (Transversal module of MyHealth)
- Role: Principal Investigator of the transversal module of the MyHealth platform

"Geo Insight Analytics Platform"

- Start Date: 02/10/2012
- End Date: 31/10/2013
- Funding Agency: Agência de Inovação através do QREN
- Project Leader: Novabase SGPS
- Funding (Universidade do Minho): 44.971€
- Role: Principal Investigator from Universidade do Minho

"TICE.MOBILIDADE – Sistemas de mobilidade centrados no utilizador"

- Projecto n.º 13843
- Start date: January 2011
- Duration: 36 months
- Consortium: Meticube - Sistemas de Informação, Comunicação e Multimédia (Promotor), CRITICAL MOVE, OPT - Optimização e Planeamento de Transportes, Media Primer - Tecnologias e Sistemas Multimédia, AMI - Tecnologias para Transportes, Associação CCG/ZGDV - Centro de Computação Gráfica, FCTUC - Faculdade de Ciências e Tecnologia da Universidade de Coimbra, UBIWHERE, PONTO C - Desenvolvimento de Sistemas de Informação, MICRO I/O - Serviços de Electrónica, Universidade de Aveiro, Universidade do Porto - Faculdade de Engenharia, INEGI - Instituto de Engenharia Mecânica e Gestão Industrial, WIZDEE - Sistemas de Gestão de Conhecimento, PROCESS.NET - Sistemas de Informação, IPN - Instituto Pedro Nunes, INOV - Inesc Inovação - Instituto de Novas Tecnologias, INESC Porto - Instituto de Engenharia de Sistemas e Computadores do Porto, Universidade do Minho, AMBISIG - Ambiente e Sistemas de Informação Geográfica, ISA - Intelligent Sensing Anywhere, SMARTMOVE - Serviços de Mobilidade, I2S - Informática, Sistemas e Serviços, Critical Software, EFACEC Engenharia e Sistemas, CEIIA - Centro para a Excelência e Inovação na Indústria Automóvel, Inteli - Inteligência em Inovação - Centro de Inovação, Monitor, Faculdade de Economia da Universidade Coimbra
- Funding Agency: Agência de Inovação, S.A.
- Role: Team member of PPS1
- Funding: 5.805.141,50€ (Global)/ 237.069,70€ (Universidade do Minho)/ 86.890,23€ (PPS1)

"SUM - Observação e compreensão da dinâmica do movimento humano"

- Start Date: January of 2011
- Duration: 24 months
- Consortium: Universidade do Minho, Universidade do Porto e Universidade de Coimbra
- Funding Agency: FCT
- Role: team member
- Funding: 70.792€ (Global)/35.772€ (Universidade do Minho)

"ISOFIN – Interoperabilidade em Software Financeiro"

- Start Date: October of 2010
- Duration: 36 meses
- Consortium: I2S Informática, Promosoft, XPATH – Consultoria em sistemas de Informação, Maisis – Sistemas de Informação, Knowledgebiz Consulting, CCG/ZGDV – Centro de Computação Gráfica, Universidade do Minho, INOV – INESC Inovação – Instituto de novas tecnologias, FCT – Faculdade de Ciências da Universidade Nova de Lisboa.
- Funding Agency: Agência de Inovação, S.A.
- Role: team member
- Financiamento: 2.039.063€ (Global)/ 47.862€ (Universidade do Minho)

"GUESS – Prediction of User Positions in Context-aware Mobile Environments"

- Start date/End date: 01/09/2006 31/03/2009
- Funding Agency: ALGORITMI Research Centre
- Funding: 8.130€
- Role: Principal investigator

"uPAIN – Ubiquitous Solutions for Pain Monitoring and Control in Post-Surgery Patients"

- Start date/End date: 01/01/2005 – 31/05/2008
- Consortium: Hospital Senhora da Oliveira (Guimarães), Universidade do Minho, Mobicomp.
- Funding Agency: Agência de Inovação (programa IDEIA, referência 70/2004/3.1B/00364/007)
- Funding: 441.029€ (Global)/237.130€ (Universidade do Minho)
- Role: team member

"LOCAL – Contextos de Localização para aplicações sensíveis à localização"

- Start date/End date: 01/02/2004 – 01/06/2006
- Funding Agency: Fundação para a Ciência e a Tecnologia (POSI/CHS/44971/2002)
- Funding: 46.092€/46.092€
- Role: team member

"Propriedades do Algodão: Inferência por técnicas de Data Mining"

- Start date/End date: 01/09/ 2000 – 31/08/2003
- Funding Agency: Fundação para a Ciência e a Tecnologia (POCTI/CTM/32993/1999)
- Funding: 34.915,85€/34.915,85€
- Role: team member

"GeoCensus – Referenciação Geográfica de Conteúdos WEB"

- Start date/End date: 01/01/2002 – 31/12/2002
- Funding Agency: Centro de Investigação ALGORITMI
- Funding: 8.680€
- Role: team member

... team member.

"Espaços rurais e urbanos: microanálise de comportamentos demográficos, de mobilidade geográfica e social, e dinâmicas culturais – séc. XVI-XX"
 - Start date/End date: 01/07/2001 – 30/06/2004
 - Funding Agency: Fundação para a Ciência e Tecnologia (POCTI/HAR/34697/2000)
 - Funding: 149.639,37€
 - Role: team member

"Informatização Normalizada de Arquivos. Reconstituição de Paróquias e História das Populações"
 - Start date/End date: 01/11/ 1996 - 31/10/1999
 - Funding Agency: Fundação para a Ciência e Tecnologia (2/2.1/CSH/685/95)
 - Funding: 27.202 contos
 - Role: team member

Concluded International Projects:
 "MOVE – Knowledge Discovery from Moving Objects"
 - COST Action IC0903 (European Cooperation in the field of Scientific and Technical Research)
 (<http://www.move-cost.info/>)
 - Start date/End date: November/2009 – October/2013
 - Funding Agency: European Union
 - Role: Team member of WG1 since March de 2011

"USE-ME.GOV – Usability-drivEn open platform for MobilE GOVernment"
 - Start date/End date: January 2004/ February 2006
 - Consortium: EDISOFT (Portugal; coordenação), Retevisión Móvil (Espanha), Universidade do Minho, Câmara Municipal de Vila Nova de Cerveira (Portugal), Indra Sistemas (Espanha), Asociación Extremeña de Formación Tecnológica (Espanha), The Poznan University of Economics (Polónia), City Hall of Gdynia (Polónia), Fraunhofer Institute for Applied Information Technology (Alemanha), Arakne (Itália), City Hall of Bologna (Itália), IntuiLab (França).
 - Funding Agency: European Union (IST-002294-2002)
 - Funding: 1.350.250€ (Global)/134.160€ (Universidade do Minho)
 - Role: team member

"EPSILON – Environmental policy via sustainability indicators on a European-wide NUTS-III level"
 - Start date/End date: December 2002 – November 2005
 - Consortium: EPSILON International SA (Grécia, coordenação), Planungsbüro Prof. Dr. Joerg Schaller (Alemanha), National Technical University of Athens (Grécia), National Statistical Service of Greece (Grécia), Department of Statistics and Research (Chipre), Universidade do Minho (Portugal), Swiss Federal Institute of Technology (Lausanne, Suíça), State of Cologne - Department of Statistics (Alemanha), Province of Cosenza (Itália), MiCE Engineering (Itália).
 - Funding Agency: European Union (IST-2001-32389)
 - Funding: 1.497.928€ (Global)/75.372€ (Universidade do Minho)
 - Role: principal investigator of the scientific participation of University of Minho

"HYPERGEO – Easy and friendly access to geographic information for mobile users"
 - Start date/End date: January 2000 – December 2001
 - Consortium: Matra Systèmes et Information, Nouvelles Frontières España, Universidade do Minho, Institut Jozef Stefan, University of Education at Hradec Kralove, CAS Software AG, Aristotle University of Thessaloniki, City University, CETIR.
 - Funding Agency: European Union (IST-1999-11641)
 - Funding: 339.490.000\$ (Global)/28.458.000\$ (Universidade do Minho)
 - Role: Team member

"SICT – Sistema de Informação sobre Ciência e Tecnologia"
 - Start date/End date: January 1997 - December 1999
 - Funding Agency: FEDER/INTERREG2 (02/REGII/6/96)
 - Funding: 500.000.000\$ (Global)/38.000.000\$ (Universidade do Minho)
 - Role: Team member

8. Prizes and awards received

Year	Name of the prize or award	Promoting entity
2015	Best Paper Award: "Geo-Spatial Analytics using the Dynamic ST-SNN Approach", International Conference on Data Mining and Knowledge Engineering	International Association of Engineers
2010	Best Paper Award: Pereira, Óscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "CRUD-DOM: A Model for Bridging the Gap Between the Object-Oriented and the Relational Paradigms"	5th International Conference on Software Engineering Advances (ICSEA'2010), Nice, France, 22-27 August, 2010, pp. 114-122, ISBN 978-0-7695-4144-0, IEEE Computer Society
2009	Certificate of Merit for the paper entitled "How a Circular Spatially Extended Point is Topological Related with a Line?", 2009 International Conference of Computational Intelligence and Intelligent Systems	International Association of Engineers
2009	Best Paper Award for the paper entitled "Conceptual Neighborhood Graphs for Topological Spatial Relations", 2009 International	

9. Published works

Teses

Santos, Maribel Yasmina Campos Alves, "PADRÃO – Um Sistema de Descoberta de Conhecimento em Bases de Dados Geo-referenciadas", PhD Thesis, Universidade do Minho, 2001.

Santos, Maribel Yasmina Campos Alves, "Padrão de evolução da função SI nos Serviços de Informática de Grande Dimensão da Administração Pública Portuguesa", Master Thesis, Universidade do Minho, 1996.

Livros (autor)

Santos, Maribel Yasmina e Isabel Ramos, "Business Intelligence – Tecnologias de Informação na Gestão de Conhecimento", 3ª Edição – Atualizada e Aumentada, FCA – Editora de Informática, Fevereiro, in final writing, 2016.

Santos, Maribel Yasmina e Isabel Ramos, "Business Intelligence – Tecnologias de Informação na Gestão de Conhecimento", 2ª Edição – Atualizada e Aumentada, FCA – Editora de Informática, Fevereiro, 2009, ISBN 978-972-722-516-3.

Santos, Maribel Yasmina and Isabel Ramos, "Business Intelligence – Tecnologias de Informação na Gestão de Conhecimento", FCA – Editora de Informática, 2006, ISBN 972-722-405-9.

Livros (editor)

Sarjakoski, Tapani, Maribel Yasmina Santos and L. Tiina Sarjakoski (Eds.), "Geospatial Data in a Changing World", Lectures Notes in Geoinformation and Cartography, Springer-Verlag, 2016, June, ISBN: 978-3-319-33782-1

Bação, Fernando, Maribel Yasmina Santos and Marco Painho (Eds.), "Geographic Information Science as an Enabler of Smarter Cities and Communities", Lectures Notes in Geoinformation and Cartography, Springer-Verlag, 2015, June, ISBN: 978-3-319-16786-2.

Painho, Marco, Maribel Yasmina Santos and Hardy Pundt (Eds.), "Geospatial Thinking", Lectures Notes in Geoinformation and Cartography, Springer-Verlag, 1st Edition, 418 p., 2010, May, ISBN: 978-3-642-12325-2 (URI: <http://hdl.handle.net/1822/11596>) (Indexed by ISI).

Capítulos de livros

Costa, Carlos and Maribel Yasmina Santos, "Reinventing the Energy Bill in Smart Cities with NoSQL Technologies", in Sio-iong Ao, Gi-Chul Yang and Len Gelman (Eds.), Transactions on Engineering Technologies, Springer Science+Business Media Singapore, ISBN: 978-9-811-01087-3, DOI 10.1007/978-981-10-1088-0_29, 2016.

Pereira, Óscar M., Rui L. Aguiar and Maribel Yasmina Santos, "ABC Architecture: a New Approach to Build Reusable and Adaptable Business Tier Components Based on Static Business Interfaces", in L. A. Maciaszek and K. Zhang (Eds.), Evaluation of Novel Approaches to Software Engineering, Springer-Verlag, Communications in Computer and Information Science, 275: 114-129, ISBN 978-3-642-32340-9 (<http://www.springer.com/computer/swe/book/978-3-642-32340-9>), 2013.

Gonçalves, Diana, Maribel Yasmina Santos e Jorge Cruz, "Implementação de um Sistema de Business Intelligence para a Análise da Qualidade de Vida Pré e Pós-Operatória", in Álvaro Rocha (Ed.), Sistemas e Tecnologias de Informação na Saúde, Edições Universidade Fernando Pessoa, pp. 93-110, 2010, ISBN 978-989-643-062-7 (URI: <http://hdl.handle.net/1822/13835>).

Santos, Maribel Yasmina and Adriano Moreira, "GUESS: on the prediction of mobile users' movement in space", in Monica Wachowicz (Ed.), Movement-aware Applications for Sustainable Mobility: Technologies and Approaches, IGI Global Publishing, 2010, pp. 87-104, ISBN: 978-1615207695 (URI: <http://hdl.handle.net/1822/12998>).

Santos, Maribel Yasmina and Adriano Moreira, "Topological Spatial Relations for Circular Spatially Extended points: An Overview", in Len Gelman and Sio-Iong AOs (Eds.), Electronic Engineering and Computing Technology, Lecture Notes in Electrical Engineering, Springer-Verlag, accepted for publication.

Santos, Maribel Yasmina and Adriano Moreira, "Spatial Neighbors for Topological Spatial Relations: The case of a Circular Spatially Extended Point", in Len Gelman and Sio-Iong AOs (Eds.), Electronic Engineering and Computing Technology, Lecture Notes in Electrical Engineering, Springer-Verlag, accepted for publication.

Santos, Maribel Yasmina and Adriano Moreira, "GUESS: predicting the movement of mobile users in space", in Monica Wachowicz (Ed.), Movement-aware Applications for Sustainable Mobility, IGI Global Publishing, accepted for publication.

Iurgel, Ido A., and Maribel Yasmina Santos, "Advanced Clustering Analysis for Environmental Indicators", In De Amicis, Raffaele, Radovan Stojanovic and Giuseppe Conti (Eds.), GeoSpatial Visual Analytics – Geographical Information Processing and Visual Analytics for Environmental Security, Springer Science + Business Media B.V., NATO Science for Peace and Security Series, 2009, pp. 235-250, ISSN 1874-6519 (Print), 1874-6543 (Online).

Santos, Maribel Yasmina, and Luís Amaral, "Mining Geo-referenced Databases: a way to improve decision-making", In John Wang (Ed.), Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications, IGI Global, 2008, Chapter 2.22, pp. 880-912, ISBN 978-1-59904-951-9 (h-book) ISBN 978-1-59904-952-6 (e-book) (selected by the editor to re-publishing).

Santos, Maribel Yasmina, Adriano Moreira and Sofia Carneiro, "Clustering in the identification of Space Models", In John Wang (Ed.), Encyclopedia of Data Warehousing and Mining, Idea Group Publishing, 2006, ISBN 1-59140-557-2.

Santos, Maribel Yasmina, and Luís Amaral, "Mining Geo-referenced Databases: a way to improve decision-making", In James Pick (Ed.), GIS in Business, Idea Group Publishing, 2005, ISBN 1-59140-400-2.

Artigos em revistas de circulação internacional com arbitragem científica

Joao Galvão, Maribel Yasmina Santos, Joao Moura Pires, and Carlos Costa, "Dealing with Repeated Objects in SNNagg", IAENG International Journal of Computer Science, vol. 43, no. 1, pp115-125, 2016, ISSN: 1819656X (SCImago Journal Rank Q2) (Indexed by Scopus).

Ramos, Luís, Luís Silva, Maribel Yasmina Santos and João Moura Pires, "Detection of road accident

accumulation zones with a visual analytics approach", *Procedia Computer Science*, Volume 64, 969-976, 2015, Elsevier B.V., DOI:10.1016/j.procs.2015.08.615, ISSN 1877-0509 (Indexed by Scopus).

Silva, Ricardo, João Moura Pires and Maribel Yasmina Santos, "A granularity theory for modelling spatio-temporal phenomena at multiple levels of detail", *International Journal of Business Intelligence and Data Mining*, 10 (1), 33-61, ISSN online: 1743-8195, ISSN print: 1743-8187, 2015 (IF: 0.172, SCImago Journal Rank Q3).

Moreira, Guilherme, Maribel Yasmina Santos, João Moura Pires, João Galvão, "Understanding the SNN input parameters and how they affect the clustering results", *International Journal of Data Warehousing and Mining*, 11 (3), September, ISSN: 1548-3924, EISSN: 1548-3932, 2015 (IF: 0.768, SCImago Journal Rank Q2).

Pereira, Óscar Mortágua, Aguiar, Rui L. and Santos, Maribel Yasmina, "Reusable Business Tier Components: Based on CLI and Driven by a Single Wide Typed Service", *International Journal of Software Innovation*, Jan-March 2014, 2(1), pp. 37-60, DOI: 10.4018/ijsi.2014010104, IGI Global, ISSN: 2166-7160, EISSN: 2166-7179. (URI: <http://hdl.handle.net/1822/30154>).

Pereira, Óscar Mortágua, Aguiar, Rui L. and Santos, Maribel Yasmina, "CTSA: Concurrent Tuple Set Architecture Extending Concurrency to Call Level Interfaces", *International Journal of Software Innovation*, 3(3), 12-33, July-September 2013. DOI: 10.4018/ijsi.2013070102, IGI Global, ISSN (Print) 2166-7160 - ISSN (Online) 2166-7179. (URI: <http://hdl.handle.net/1822/30152>).

Silva, Ricardo, João Moura-Pires and Maribel Yasmina Santos, "Spatial Clustering in SOLAP systems to Enhance Map Visualization", *International Journal of Data Warehousing and Mining (SCImago Journal Rank Q1, Indexed By SCOPUS, ISI, DBLP)*, Vol. 8, nº 2, ISSN (printed): 1548-3924. ISSN (electronic): 1548-3932, 2012 (URI: <http://hdl.handle.net/1822/19182>) (DOI: 10.4018/jdw.2012040102) (Indexed by ISI, SCOPUS, DBLP). (<http://sieceum.eng.uminho.pt/publicacoes/pub.aspx?pubid=12926>) (IF: 1.000, SCImago Journal Rank Q2)

Pereira, Óscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "CRUD-DOM: A Model for Bridging the Gap Between the Object-Oriented and the Relational Paradigms - an Enhanced Performance Assessment Based on a Case Study", *International Journal on Advances in Software*, Vol. 4, nº 1 & 2, 158-180, ISSN 1942-2628, pp. 158-180, 2011 (URI: <http://hdl.handle.net/1822/13937>).

Santos, Maribel Yasmina and Adriano, Moreira, "Topological Relationships between a Circular Spatially Extended Point and a Line: Spatial Relations and their Conceptual Neighborhoods", *IAENG International Journal of Computer Science*, 36(4), December, 2009, pp. 301-312, ISSN 1819-9224 (online version) 1819-656X (print version) (SCImago Journal Rank Q4, Indexed By SCOPUS) (URI: <http://hdl.handle.net/1822/11101>).

Carvalho, Elizabeth, Adérito Marcos, Maribel Yasmina Santos and João Espregueira-Mendes, "A Prototype for a Cartographic Human Body Analysis", *IEEE Computer Graphics and Applications*, IEEE Computer Society, September/October, 2008, pp. 16-21, ISSN 0272-1716 (Impact factor ISI JCR 1.76, SCImago Journal Rank Q1 -Q2, Journal indexed by ISI, SCOPUS, DBLP, IEEE Xplore) (URI: <http://hdl.handle.net/1822/11098>).

Carvalho, Elizabeth, Adérito Marcos, Maribel Yasmina Santos, João Espregueira-Mendes and Rogério Barbosa Pereira, "Using a Cartographic Oriented Model to Visualize Medical Diagnoses", *International Journal of Computer Assisted Radiology and Surgery*, Springer Berlin, 2008, pp. 41-53, ISSN 1861-6410 (Print) 1861-6429 (Online) (IF: 0.153, SCImago Journal Rank Q3, Journal indexed by Scopus) (URI: <http://hdl.handle.net/1822/11149>).

Santos, Maribel Yasmina and Adriano Moreira, "Decision Trees in the Identification of Space Models", *The Mediterranean Journal of Computers and Networks*, Special Issue on Mobile and Ubiquitous Systems, 3 (1), January, 2007, ISSN: 1744-2397, pp. 15-23 (URI: <http://hdl.handle.net/1822/11107>).

Santos, Maribel Yasmina, and Luís Alfredo Amaral, "Geo-Spatial Data Mining in the Analysis of a Demographic Database", *Soft Computing - A Fusion of Foundations, Methodologies and Applications*, Special Issue on Soft Computing for Spatial Data Analysis, May, 9(5), 2005, pp. 374-384 (ISSN 1432-7643 - Paper, 1433-7479 - Online) (URI: <http://hdl.handle.net/1822/1359>) (Impact Factor ISI JCR 1.52, SCImago Journal Rank Q2, Journal indexed by ISI, Scopus, ACM DL, DBLP).

Santos, Maribel Yasmina, and Luís Alfredo Amaral, "Mining geo-referenced data with qualitative spatial reasoning strategies", *Computers and Graphics*, Special Issue on Visual Knowledge Discovery, 28(3), 2004, pp. 371-379 (ISSN 0097-8493) (URI: <http://hdl.handle.net/1822/1343>) (Impact Factor ISI JCR 0.720, SCImago Journal Rank Q1 -Q2, Journal indexed by ISI, SCOPUS, DBLP, ACM DL).

Santos, Maribel, and Luís Amaral, "Knowledge Discovery in Spatial Databases: the Padrão's qualitative approach", *Cities and Regions*, GIS special issue, November, 2000, pp. 33-49 (ISSN 1568-167X). (URI: <http://hdl.handle.net/1822/5572>).

Artigos em revistas nacionais com arbitragem científica

Amaral, Luís e Maribel Santos, "Modelos de estádios de crescimento", *Sistemas de Informação*, 7 (1997), 41-59 (ISSN 0872-7031). (URI: <http://hdl.handle.net/1822/5570>).

Publicações em actas de encontros científicos

International Conferences:

Santos, Maribel Yasmina, António Carvalheira and Artur Teles de Araújo, "What Do the Data Say in 10 Years of Pneumonia Victims? A Geo-Spatial Data Analytics Perspective", Accepted at the 7th International Conference on Information Technology in Bio- and Medical Informatics (ITBAM'2016), Springer-Verlag, 5-8 September 2016, Porto, Portugal, 2016.

Costa, Carlos and Maribel Yasmina Santos, "BASIS: A Big Data Architecture for Smart Cities", Accepted for publication at the 2016 SAI Computing Conference, IEEE Computer Society, ISBN 978-1-4673-8460-5, July 13-15, London, UK.

Santos, Maribel Yasmina and Carlos Costa, "Data Warehousing in Big Data: From Multidimensional to Tabular Data Models", Accepted for publication at the Ninth International C* Conference on Computer Science & Software Engineering (C3S2E), ICPS (ACM), ISBN 978-1-4503-4075-5, July 20-22, Porto, Portugal, 2016.

Santos, Maribel Yasmina, Jorge Oliveira e Sá, and Carina Andrade, "Towards a Common Data Framework for Analytical Environments", *The 2016 International Conference on Computational Science and Its Applications*, Springer-Verlag, LNCS 9790, 2016, July 4-8, Beijing, China (DOI: 10.1007/978-3-319-42092-9_21).

Santos, Maribel Yasmina and Jorge Oliveira e Sá, "A Data Warehouse Model for Business Processes Data Analytics", *The 2016 International Conference on Computational Science and Its Applications*, Springer-Verlag, LNCS 9790, 2016, July 4-8, Beijing, China (DOI: 10.1007/978-3-319-42092-9_19).

- Santos, Maribel Yasmina and Carlos Costa, "Data Models in NoSQL Databases for Big Data Contexts", The 2016 International Conference of Data Mining and Big Data, Springer-Verlag, LNCS 9714, pp 1-11, June 25-30, Bali, Indonesia (DOI:10.1007/978-3-319-40973-3_48).
- Silva, Ricardo, João Moura Pires, Maribel Yasmina Santos and Nuno Datia, "Aggregating Spatio-temporal Phenomena at Multiple Levels of Detail", T. Sarjakoski et al. (eds.), Geospatial Data in a Changing World, Proceedings of the 19th AGILE International Conference in Geographic Information Science, Lecture Notes in Geoinformation and Cartography, Springer-Verlag, 2016, June 14-17, Helsinki, Finland, ISBN: 978-3-319-33782-1.
- Cruz, Estrela, Ricardo Machado and Maribel Yasmina Santos, "Deriving Software Design Models from a Set of Business Processes", Proceedings of the 4th International Conference on Model-Driven Engineering and Software Development (ModelsWard'2016), February, 16-21, 2016, Rome, Italy.
- Santos, Maribel Yasmina, António Carvalheira and Artur Teles de Araújo, "A Data-driven Analytics Approach in the Study of Pneumonia's Fatalities", 2015 IEEE International Conference on Data Science and Advanced Analytics (DSAA'2015), 2015, October 19-21, IEEE.
- Santos, Maribel Yasmina, Joao Moura Pires, Guilherme Moreira, Ricardo Oliveira, Fernando Mendes, and Carlos Costa, "Geo-Spatial Analytics using the Dynamic ST-SNN Approach", Proceedings of the 2015 International Conference of Data Mining and Knowledge Engineering, World Congress of Engineering, Vol. I, July 1-3, London, UK, pp. 285-290, ISBN 978-988-19253-4-3.
- Costa, Carlos and Maribel Yasmina Santos, "Improving Cities Sustainability through the Use of Data Mining in a Context of Big City Data", Proceedings of the 2015 International Conference of Data Mining and Knowledge Engineering, World Congress of Engineering, Vol. I, 2015, July 1-3, London, UK, pp. 320-325, ISBN 978-988-19253-4-3.
- Silva, Ricardo, João Moura Pires, Maribel Yasmina Santos and Rui Leal, "Aggregating Spatio-temporal Phenomena at Multiple Levels of Detail", F. Bação et al. (eds.), Geographic Information Science as an Enabler of Smarter Cities and Communities, Proceedings of the 18th AGILE International Conference in Geographic Information Science, Lecture Notes in Geoinformation and Cartography, Springer-Verlag, 2015, June 09-12, Lisboa, Portugal, pp. 291-308, ISBN: 978-3-319-16786-2.
- Cruz, Estrela, Ricardo Machado and Maribel Yasmina Santos, "Deriving a Data Model from a set of interrelated Business Process Models", Proceedings of the 17th. International Conference on Enterprise Information Systems (ICEIS'2015), 2015, April 27-30, Barcelona, Spain, pp. 49-59, ISBN 978-989-758-097-0.
- Cruz, Estrela, Ricardo Machado and Maribel Yasmina Santos, "Bridging the Gap between a set of interrelated Business Process Models and Software Models", Proceedings of the 17th. International Conference on Enterprise Information Systems (ICEIS'2015), 2015, April 27-30, Barcelona, Spain, pp. 338-345, ISBN 978-989-758-097-0.
- Santos, Maribel Yasmina, Cristiano Pendão, Bruno Ferreira, Luís Gonçalves, Guilherme Moreira, Adriano Moreira, João Álvaro Carvalho, "MyHealth: a cross-domain platform for healthcare", Symposium on Applied Computing (SAC'2015), 978-1-4503-3196-8, pp. 40-46, Salamanca, Spain, April 13-17, 2015 (<http://dx.doi.org/10.1145/2695664.2695894>) (URI: <http://hdl.handle.net/1822/36506>) (IF: 0.421).
- Santos, Maribel Yasmina, Vera Leite, António Carvalheira, Artur Teles de Araújo and Jorge Cruz, "Are wildfires and pneumonia spatially and temporally related?", International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015), Lecture Notes in Computer Science, Springer International Publishing Switzerland, LNCS 9043, pp. 42-53, Granada, Spain, 15-17 April, 2015.
- Santos, Maribel Yasmina, Vera Leite, António Carvalheira, Artur Teles de Araújo and Jorge Cruz, "Characterization of pneumonia incidence supported by a business intelligence system", International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015), Lecture Notes in Computer Science, Springer International Publishing Switzerland, LNCS 9043, pp. 30-41, Granada, Spain, 15-17 April, 2015.
- Estrela F. Cruz, Ricardo J. Machado, Maribel Yasmina Santos, "Derivation of Data-Driven Software Models from Business Process Representations", Proceedings of the 5th Portuguese Software Engineering Doctoral Symposium (SEDES 2014), 9th International Conference on the Quality of Information and Communications Technology (QUATIC 2014), 23-26 September, Guimarães, Portugal, IEEE Computer Society, 2014.
- Estrela F. Cruz, Ricardo J. Machado, Maribel Yasmina Santos, "On the decomposition of use case diagrams for the refinement of requirements", Proceedings of the 14th International Conference on Computational Science and its Applications (ICCSA 2014), 978-1-4799-4264-0/14, IEEE Computer Society, 2014 (Indexed by DBLP), pp. 237-240.
- João Moura-Pires, Ricardo Almeida Silva, Maribel Yasmina Santos, "Reasoning about Space and Time: Moving towards a Theory of Granularities", B. Murgante et al. (Eds.), Proceedings of the 14th International Conference on Computational Science and its Applications (ICCSA 2014), Part I, LNCS 8579, Springer International Publishing Switzerland, pp. 328-343, 2014 (Indexed by DBLP).
- Bruno Filipe Faustino, João Moura-Pires, Maribel Yasmina Santos, Guilherme Moreira, "kd-SNN: A Metric Data Structure Seconding the Clustering of Spatial Data", B. Murgante et al. (Eds.), Proceedings of the 14th International Conference on Computational Science and its Applications (ICCSA 2014), Part I, LNCS 8579, Springer International Publishing Switzerland, pp. 312-327, 2014 (Indexed by DBLP).
- Arménio Antunes, Maribel Yasmina Santos and Adriano Moreira, "Fast SNN-Based Clustering Approach for Large Geospatial Data Sets", J. Huerta et al. (eds.), Connecting a Digital Europe Through Location and Place, Proceedings of the 17th AGILE International Conference in Geographic Information Science, Lecture Notes in Geoinformation and Cartography, Springer International Publishing Switzerland, pp. 179-195, 2014.
- Estrela F. Cruz, Ricardo J. Machado, Maribel Yasmina Santos, "From Business Process Models to Use Case Models: A systematic approach", Proceedings of the 4th Enterprise Engineering Working Conference (EEWC'2014), in D. Aveiro, J. Tribolet and D. Gouveia (Eds.), LNBIP Series, Springer International Publishing Switzerland, Funchal, Madeira, Portugal, May 2014, Scopus Indexed, pp. 167-181, 2014 (Indexed by DBLP).
- Braga, Mário, Maribel Yasmina Santos and Adriano Moreira, "Integrating Public Transportation Data: Creation and Editing of GTFS Data", Proceedings of the 2014 World Conference on Information Systems and Technologies (WorldCIST'2014), Advances in Intelligent Systems and Computing, Springer-Verlag, 276, Vol. 2, pp. 53-62, ISSN: 1615-3871, April 15-18, Madeira, Portugal, (Indexed by Scopus). (URI: <http://hdl.handle.net/1822/29495>).

Moreira, Guilherme, Maribel Yasmina Santos and João Moura-Pires, "SNN Input Parameters: how are they related?", Proceedings of the Crowd and Cloud Computing Workshop, The 19th IEEE International Conference on Parallel and Distributed Systems (ICPADS'2013), December 15-18, Seoul, Korea, IEEE Computer Society (URI: <http://hdl.handle.net/1822/26772>).

Mendes, Fernando, Maribel Yasmina Santos and João Moura-Pires, "Dynamic Analytics for Spatial Data with an Incremental Clustering Approach", Proceedings of the Incremental clustering, concept drift and novelty detection workshop, IEEE International Conference on Data Mining (ICDM'2013), December 7-10, Dallas, USA, IEEE Computer Society (URI: <http://hdl.handle.net/1822/26770>).

Oliveira, Ricardo, Maribel Yasmina Santos and João Moura-Pires, "4D-SNN: A Spatio-temporal Density-based Clustering Approach with 4D Similarity", Proceedings of the International Workshop on Spatial and Spatiotemporal Data Mining, IEEE International Conference on Data Mining (ICDM'2013), December 7-10, Dallas, USA, IEEE Computer Society (URI: <http://hdl.handle.net/1822/26768>).

Pereira, Óscar Mortágua, Aguiar, Rui L. and Santos, Maribel Yasmina, "Runtime Values Driven by Access Control Policies Statically Enforced at the Level of the Relational Business Tiers", Proceedings of the 25th International Conference on Software Engineering and Knowledge Engineering (SEKE'2013), June 27-29, 2013, Boston, USA, ISBN 978-1-891706-33-2.

Pereira, Óscar Mortágua, Aguiar, Rui L. and Santos, Maribel Yasmina, "A Concurrent Tuple Set Architecture for Call Level Interfaces", Proceedings of the 12th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2013), June 16 -20, 2013, Toki Messe, Niigata, Japan, ISBN 978-1-4799-0172-2 (selected as an outstanding paper).

Pereira, Óscar Mortágua, Aguiar, Rui L. and Santos, Maribel Yasmina, "Reusable Business Tier Architecture Driven by a Wide Typed Service", Proceedings of the 12th IEEE/ACIS International Conference on Computer and Information Science (ICIS 2013), June 16 -20, 2013, Toki Messe, Niigata, Japan, ISBN 978-1-4799-0172-2.

Pereira, Óscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "ORCA: Architecture for Business Tier Components Driven by Dynamic Adaptation and Based on Call Level Interfaces", Proceedings of the 38th Euromicro Conference on Software Engineering and Advanced Applications (SEAA'2012), Izmir, Turkey, 5-8 September, 2012, pp. 183-191, IEEE CPS, ISBN 978-0-7695-4790-9 (URI: <http://hdl.handle.net/1822/20166>) (Indexed by ISI, SCOPUS, DBLP).

Cruz, Estrela, Ricardo Machado e Maribel Yasmina Santos, "From Business Process Modeling to Data Model: A systematic approach", Proceedings of the 8th International Conference on the Quality of Information and Communications Technology - QUATIC'2012, Thematic Track on Quality in ICT Requirements Engineering, Lisbon, Portugal, September, 2012, pp. 205-210, IEEE Computer Society Press, Los Alamitos, California, U.S.A., ISBN: 978-0-7695-4777-0 (URI: <http://hdl.handle.net/1822/21553>).

Maribel Yasmina Santos, Jorge Cruz, Artur Teles de Araújo, "Data Mining in the Study of the Chronic Obstructive Pulmonary Disease", Proceedings of the 3rd International Conference on Information Technology in Bio- and Medical Informatics (ITBAM'2012), LNCS 7451, Springer-Verlag, 3-7 September 2012, Vienna, Austria, 2012, pp. 16-30, ISSN 0302-9743, ISBN 978-3-642-32394-2 (URI: <http://hdl.handle.net/1822/20165>) (Indexed by SCOPUS, DBLP).

Pereira, Óscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "ACADA: Access Control-driven Architecture with Dynamic Adaptation", Submitted to the 24th Proceedings of the 2012 International Conference on Software Engineering and Knowledge Engineering (SEKE'2012), San Francisco Bay, USA, 1-3 July, 2012, pp. 387-393 (URI: <http://hdl.handle.net/1822/19866>) (Indexed by DBLP).

Pereira, Óscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "BTA: Architecture for Reusable Business Tier Components with Access Control", Proceedings of the 2012 International Conference on Computational Science and Its Applications (ICCSA'2012), Part III, LNCS 7335, pp. 682-697, Springer-Verlag, Salvador de Bahia, Brazil, 18-21 June, 2012, ISBN 978-3-642-31124-6 (URI: <http://hdl.handle.net/1822/19868>) (Indexed by ISI, SCOPUS, DBLP).

Santos, Maribel Yasmina, "Mining RADIUS Data: How to detect movement patterns?", Proceedings of the Complex Data Mining in a GeoSpatial Context Workshop, 15th AGILE International Conference on Geographic Information Science, April 24-27, 2012, Avignon, France (URI: <http://hdl.handle.net/1822/19190>).

Santos, Maribel Yasmina, Joaquim Silva, João Moura-Pires and Monica Wachowicz, "Automated Traffic Route Identification through the Shared Nearest Neighbour Algorithm", Proceedings of the 15th AGILE International Conference on Geographic Information Science, April 24-27, 2012, Avignon, France, Springer-Verlag (URI: <http://hdl.handle.net/1822/19194>) (Indexed by ISI, DBLP).

Dinis, Ricardo, Alexandre Ribeiro, Maribel Yasmina Santos, Jorge Cruz, Artur Teles de Araújo, "A Business Intelligence Infrastructure Supporting Respiratory Health Analysis", Proceedings the First International Conference on Business Intelligence and Technology (BusTECH'2011), 25-30 September 2011, Rome, Italy (Published by XPS), ISBN: 978-1-61208-160-1, pp. 13-19 (URI: <http://hdl.handle.net/1822/13953>).

Pereira, Óscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "A Reusable Business Tier Component with a Single Wide Range Static Interface", Proceedings of the 5th European Conference on Software Architecture (ECSA'2011), Essen, Germany, Springer-Verlag (LNCS 6903), 13-16 September, 2011 (Indexed by ISI, SCOPUS, DBLP) (URI: <http://hdl.handle.net/1822/13932>).

Peña, Jorge, and Maribel Yasmina Santos, "Representing, Storing and Mining Moving Objects Data", Proceedings of the 2011 International Conference of Data Mining and Knowledge Engineering, World Congress on Engineering, 6-8 July 2011, London, UK (ISBN: 978-988-19251-5-2, ISSN: 2078-0958 (Print); ISSN: 2078-0966 (Online)) (Indexed by SCOPUS) (URI: <http://hdl.handle.net/1822/13275>).

Santos, Maribel Yasmina, and Monica Wachowicz, "Computing Performance Indicators in Detecting Shipping Collision", Proceedings of the 3rd ACM MobiSys Workshop on Hot Topics in Planet-scale Measurement (HotPlanet'2011), 28 June 2011, Washington DC, USA (Indexed by ACM DL, SCOPUS) (URI: <http://hdl.handle.net/1822/12666>).

Silva, Joaquim, Maribel Yasmina Santos and João Moura Pires, "A Brief Survey on Online Analysis of Movement Data", Proceedings of the 6th Iberian Conference on Information Systems and Technologies (CISTI'2011), 15-18 June 2011, pp. 561-566, ISBN 978-989-96247-4-0, Chaves, Portugal, (Indexed by ISI, IEEE Xplorer, SCOPUS) (URI: <http://hdl.handle.net/1822/12910>).

- Pereira, Oscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "An Adaptable Business Component based on pre-defined Business Interfaces", Proceedings of the 6th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE'2011), 8-11 June 2011, pp. 92-103, Beijing, China SciTePress 2011, ISBN 978-989-8425-57-7 (Indexed by DBLP) (URI: <http://hdl.handle.net/1822/12589>).
- Silva, Ricardo, João Moura-Pires and Maribel Yasmina Santos, "Spatial Clustering to Uncluttering Map Visualization in SOLAP", in B. Murgante et al. (Eds.): Proceedings of the 11th International Conference on Computational Science and Its Applications – Geographical Analysis, Urban Modeling, Spatial Statistics Session, Part I, LNCS 6782, Springer-Verlag Berlin Heidelberg, 20-23 June 2011, pp. 253-268, ISBN 978-3-642-21927-6, University of Cantabria, Santander, Spain (Indexed by ISI, SCOPUS, DBLP) (URI: <http://hdl.handle.net/1822/12669>).
- Santos, Maribel Yasmina, José Mendes, Adriano Moreira and Monica Wachowicz, "Towards a Spatio-Temporal Information System for Moving Objects", in B. Murgante et al. (Eds.): Proceedings of the 11th International Conference on Computational Science and Its Applications – Geographical Analysis, Urban Modeling, Spatial Statistics Session, Part I, LNCS 6782, Springer-Verlag Berlin Heidelberg, 20-23 June 2011, pp. 1-16, ISBN 978-3-642-21927-6, University of Cantabria, Santander, Spain (Indexed by ISI, SCOPUS, DBLP) (URI: <http://hdl.handle.net/1822/12670>).
- Pereira, Óscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "Assessment of a Enhanced ResultSet Component for Accessing Relational Databases", Proceedings of the 2nd International Conference on Software Technology and Engineering, Puerto Rico, USA, 3-5 October, pp. V1: 194-201, 2010, ISBN 978-1-4244-8665-6, IEEE Computer Society (Indexed by IEEE Xplorer, SCOPUS) (URI: <http://hdl.handle.net/1822/11396>).
- Santos, Maribel Yasmina, and Ricardo J. Machado, "On the Derivation of Class Diagrams from Use Cases and Logical Software Architectures", Proceedings of the 5th International Conference on Software Engineering Advances (ICSEA'2010), Nice, France, 22-27 August, 2010, pp. 107-113, ISBN 978-0-7695-4144-0, IEEE Computer Society (Indexed by IEEE Xplorer, SCOPUS, DBLP, ACM DL) (URI: <http://hdl.handle.net/1822/11116>).
- Pereira, Óscar M., Rui L. Aguiar, and Maribel Yasmina Santos, "CRUD-DOM: A Model for Bridging the Gap Between the Object-Oriented and the Relational Paradigms", Proceedings of the 5th International Conference on Software Engineering Advances (ICSEA'2010), Nice, France, 22-27 August, 2010, pp. 114-122, ISBN 978-0-7695-4144-0, IEEE Computer Society (Indexed by IEEE Xplorer, SCOPUS, DBLP, ACM DL) (URI: <http://hdl.handle.net/1822/11368>). Best Paper Award.
- Silva, Joaquim, and Maribel Yasmina Santos, "Spatiotemporal Database Models and Languages For Moving Objects: A Review", Proceedings of the 5th Iberian Conference on Information Systems and Technologies, Santiago de Compostela, Spain, 16-19 June, 2010, pp. 118-221, Vol. 2, ISBN: 978-989-96247-3-3 (Indexed by IEEE Xplorer, SCOPUS) (URI: <http://hdl.handle.net/1822/11103>).
- Piedade, M. Beatriz, and Maribel Yasmina Santos, "Business Intelligence in Higher Education: Enhancing the teaching-learning process with a SRM system", Proceedings of the 5th Iberian Conference on Information Systems and Technologies, Santiago de Compostela, Spain, 16-19 June, 2010, pp. 216-220, Vol. 1, ISBN 978-989-96247-3-3, (Indexed by ISI, IEEE Xplorer, SCOPUS) (URI: <http://hdl.handle.net/1822/11119>).
- Moreira, Adriano, Maribel Yasmina Santos, Monica Wachowicz and Daniel Orellana, "The impact of data quality in the context of pedestrian movement analysis", The 13th AGILE International Conference on Geographic Information Science, in M. Painho, M Y. Santos and H. Pundt (Eds), Geospatial Thinking, Lecture Notes in Geoinformation and Cartography, Springer-Verlag, pp. 61-78, May 11-14, 2010 (ISBN: 978-3-642-12325-2) (Indexed by ISI) (URI: <http://hdl.handle.net/1822/11108>).
- Gonçalves, Diana, Maribel Yasmina Santos and Jorge Cruz, "Analysis of the quality of life after an endoscopic thoracic sympathectomy: a business intelligence approach", Proceedings of the Second International Conference on Advances in Databases, Knowledge, and Data Applications, Les Menuires, France, April 11-16, 2010, (Indexed by IEEE Xplorer, SCOPUS, DBLP, ACM DL) (ISBN 978-0-7695-3981-2). (URI: <http://hdl.handle.net/1822/11443>).
- Piedade, M. Beatriz, and Maribel Yasmina Santos, "Promoting Students Success with a Business Intelligence System", Proceedings of the 2nd International Conference on Computer Supported Education, Volume 2, Valencia, Spain, April 7-10, 2010 (ISBN: 978-989-674-024-5) (Indexed by SCOPUS, DBLP) (URI: <http://hdl.handle.net/1822/11395>).
- Santos, Maribel Yasmina, Diana Gonçalves and Jorge Cruz, "Mining Healthcare Data: The Case of an Endoscopic Thoracic Sympathectomy Dataset", Proceedings of the 9th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases, University of Cambridge, UK, February 20-22, pp. 333-338, 2010 (Indexed by ISI, SCOPUS, ACM DL) (ISBN 978-960-474-154-0) (URI: <http://hdl.handle.net/1822/11367>).
- Piedade, M. Beatriz, and Maribel Yasmina Santos, "Business Intelligence in Higher Education: Managing the Relationships with the Students", Proceedings of the International Conference on Knowledge Discovery and Information Retrieval, Madeira, Portugal, 6-8 October, pp. 297-302, 2009 (Indexed Conference Proceedings) (ISBN 978-989-674-011-5).
- Piedade, M. Beatriz, and Maribel Yasmina Santos, "Business Intelligence supporting the teaching-learning process", 5th WSEAS International Symposium on Data Mining and Intelligent Information Processing, Proceedings of the 9th WSEAS International Conference on Simulation, Modelling and Optimization, Budapest, Hungary, 3-5 September, pp. 292-297, 2009 (Indexed Conference Proceedings) (ISBN: 978-960-474-113-7) (ISSN: 1790-2769).
- Santos, Maribel Yasmina, and Adriano Moreira, "Conceptual Neighborhood Graphs for Topological Spatial Relations", Proceedings of the 2009 International Conference of Computational Intelligence and Intelligent Systems, World Congress on Engineering, Lecture Notes on Engineering and Computer Science, Volume I, London, UK, 1-3 July, pp. 12-18, 2009 (Indexed Conference Proceedings) (ISBN 978-988-17012-5-1). Best Paper Award.
- Santos, Maribel Yasmina, and Adriano Moreira, "How a Circular Spatially Extended Point is Topological Related with a Line?", Proceedings of the 2009 International Conference of Computational Intelligence and Intelligent Systems, World Congress on Engineering, Lecture Notes on Engineering and Computer Science, Volume I, London, UK, 1-3 July, pp. 25-30, 2009 (Indexed Conference Proceedings) (ISBN 978-988-17012-5-1). Merit Award.
- Piedade, Beatriz, and Maribel Yasmina Santos, "Uma Aplicação do Conceito de Student Relationship Management", Proceedings of the 4th Iberian Conference on Information Systems and Technologies, Póvoa de

Varzim, Portugal, 17-20 June, 2009 (ISBN 978-989-96247-1-9), pp. 151-156.

Piedade, Beatriz, and Maribel Yasmina Santos, "An Application of the Student Relationship Management Concept", Accepted at the 11th. International Conference on Enterprise Information Systems (ICEIS'2009), Milan, Italy, 6-10 May, 2009.

Iurgel, Ido, and Maribel Yasmina Santos, "Advanced clustering analysis for environmental indicators", Geographical Information Processing and Visual Analytics for Environmental Security, NATO Advanced Research Workshop, Invited Paper, Trento, Italy, 13-17 October, 2008.

Piedade, Beatriz, and Maribel Yasmina Santos, "Student Relationship Management: Concept, Practice and Technological Support", Proceedings of the IEEE International Engineering Management Conference (IEMC 2008), Estoril, Portugal, 28-30 June, 2008 (ISBN 978-1-4244-2289-0).

Piedade, Beatriz, and Maribel Yasmina Santos, "Student Relationship Management (SRM): proposta de um sistema para a promoção do sucesso escolar", Proceedings of the 3rd. Iberian Conference on Information Systems and Technologies, Vigo, Spain, 19-21 June, 2008 (ISBN 978-84-612-4474-4).

Carvalho, Elizabeth, Adérito Marcos, Maribel Yasmina Santos, João Espregueira-Mendes and Rogério Barbosa Pereira, "Medical Diagnoses with a Cartographic Oriented Model", Proceedings of the 11th. AGILE International Conference on Geographic Information Science, Girona, Spain, 5-8 May, 2008.

Carvalho, Elizabeth, Maribel Yasmina Santos and Adérito Marcos, "CHUB – A Cartographic Human Body Model", Accepted for publication at IADIS International Conference on Computer Graphics and Visualization 2007, Lisbon, Portugal, 5-7 July, 2007.

Santos, Maribel Yasmina and Adriano Moreira, "Topological Spatial Relations between a Spatially Extended Point and a Line for Predicting Movement in Space", 10th. AGILE International Conference on Geographic Information Science, Aalborg, Denmark, 8-11 May, 2007 (ISBN 978-87-918-3004-4). (URI: <http://hdl.handle.net/1822/6477>).

Moreira, Adriano e Maribel Yasmina Santos, "Concave Hull: A k-nearest neighbours approach for the calculation of the concave hull of a set of points", Proceedings of the 2nd International Conference on Computer Graphics Theory and Applications (GRAPP'2007), Barcelona, Spain, 8-11 March, 2007, pp. 61-68 (ISBN 978-972-8865-71-9) (URI: <http://hdl.handle.net/1822/6429>).

Ferreira, Carlos Alberto de Sousa, Helder Daniel Novais Fernandes, Vera Lúcia Pedrosa Alves e Maribel Yasmina Santos, "O Data Mining na Compreensão do Fenómeno da Dor: Uma Proposta de Aplicação", Actas da 1ª Conferência Ibérica de Sistemas e Tecnologias de Informação, 21-23 Junho, Ofir, Portugal, 2006, pp. 641-656, Volume I (ISBN 978-989-20-0271-2) (URI: <http://hdl.handle.net/1822/5577>).

Moreira, Adriano e Maribel Yasmina Santos, "From GPS tracks to context – Inference of high-level context information through spatial clustering", Proceedings of the II International Conference & Exhibition on Geographic Information – GISPLANET'2005, 30 May - 2 June, Lisbon, 2005 (ISBN 972-97367-5-8) (URI: <http://hdl.handle.net/1822/2712>).

Moreira, Adriano, Maribel Yasmina Santos e Sofia Carneiro, "Space Models as a Tool for Sustainability Development", Proceedings of the 2005 Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems, 5-10 June, Croatia, 2005 (ISBN 953-6313-70-7) (URI: <http://hdl.handle.net/1822/2050>).

Moreira, Adriano e Maribel Yasmina Santos, "Enhancing a user context by real-time clustering mobile trajectories", Proceedings of the International Conference on Information Technology: coding and computing, Las Vegas: IEEE Computer Society, 2005 (ISBN 0-7695-2315-3) (URI: <http://hdl.handle.net/1822/1301>) (<http://csdl2.computer.org/persagen/DLabsToc.jsp?resourcePath=/dl/proceedings/&toc=comp/proceedings/itcc/2005/2315/02/2315toc.xml>).

Santos, Maribel Yasmina, Adriano Moreira e Sofia Carneiro, "STICH – A Hierarchical Clustering Algorithm", Proceedings of the Workshop "Data Gadgets 2004 – Bringing Up Emerging Solutions for Data Warehousing Systems", IX Conference on Software Engineering and Databases, Málaga, Spain, November 9, 2004, pp. 52-65 (ISBN 972911959-7) (URI: <http://hdl.handle.net/1822/933>).

Botica, Natália, Maribel Yasmina Santos e Francisco Sande Lemos, "Data Mining e Património Arqueológico", Conferência Ibero-Americana WWW/Internet 2003, 8-9 Novembro, Algarve, Portugal, 2003 (ISBN 972-98947-2-8) (URI: <http://hdl.handle.net/1822/5604>).

Ramos, Isabel e Maribel Yasmina Santos, "Knowledge Discovery Process Supporting Organizational Learning", International Conference IADIS WWW/Internet 2003, 5-8 November, Algarve, Portugal, 2003 (ISBN 972-98947-1-X) (URI: <http://hdl.handle.net/1822/5605>).

Santos, Maribel Yasmina e Isabel Ramos, "Knowledge Construction: The Role of Data Mining Tools", Proceedings of the UKAIS 2003 Conference "Co-ordination and Co-operation: the IS role", University of Warwick, 9-11 April, 2003 (Edição em CD-ROM) (URI: <http://hdl.handle.net/1822/383>).

Botica, Natália, Francisco Sande Lemos e Maribel Yasmina Santos, "Desenvolvimento Sustentado - Património Arqueológico e Tecnologias de Informação", Actas do 1º Congresso Internacional de Investigação e Desenvolvimento Sociocultural, Cabeceiras de Basto, 23-25 Outubro, 2003 (Edição em CD-ROM) (URI: <http://hdl.handle.net/1822/5580>).

Dias, Sílvia, Rosa Vasconcelos, Maribel Santos, Teresa Amorim e Luís Amaral, "Knowledge Discovery in textile field - Analysis of a Cotton Fiber Properties Database", Data Mining 2002: Data Mining Methods and Databases for Engineering, Finance and Others Fields, Bologna, Italy, 25-27 September, 2002 (ISBN 1-85312-925-9) (URI: <http://hdl.handle.net/1822/5588>).

Dias, Sílvia, Rosa Vasconcelos, Maribel Santos, Teresa Amorim e Luís Amaral, "Using Clementine Data Mining System in the process of Analysis of Cotton Fiber Properties", The 9th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Annecy, France, 1-5 July, 2002 (URI: <http://hdl.handle.net/1822/5594>).

Bastos, Pedro, Luís Amaral, Maribel Santos, Teresa Amorim e Rosa Vasconcelos, "Using Internet Distributed Communications in Management a Textile Research Project", The 9th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems, Annecy, France, 1-5 July, 2002.

Gouveia, Cristina, Pedro Henriques, Rita Nicolau, Jorge Rocha e Maribel Santos, "Moving from CEN TC 287 to

ISO TC 211 – The approach of the Portuguese National Geographic Information Infrastructure”, Proceedings of AGILE’01 – GI in Europe: Integrative, Interoperable, Interactive, Brno, República Checa, 19-21 Abril, 2001 (URI: <http://hdl.handle.net/1822/5608>).

Santos, Maribel, e Luís Amaral, “Knowledge Discovery in Spatial Databases through Qualitative Spatial Reasoning”, PADD’00 Proceedings of the 4th International Conference and Exhibition on Practical Applications of Knowledge Discovery and Data Mining, Manchester, 11-13 Abril, 2000, pp. 73-88 (ISBN 1-902426-08-8) (URI: <http://hdl.handle.net/1822/5584>).

Santos, Maribel, e Luís Amaral, “A Qualitative Spatial Reasoning Approach in Knowledge Discovery in Spatial Databases”, Proceedings of Data Mining 2000: Data Mining Methods and Databases for Engineering, Finance and Others Fields, Cambridge University, WIT Press, 5-7 July, 2000, pp. 249-258 (ISBN 1-85312-821-X) (URI: <http://hdl.handle.net/1822/5621>).

Santos, Maribel, Luís Amaral, e Pedro Pimenta, “A Descoberta de Conhecimento em Bases de Dados Geográficas através da Explicação Semântica”, GISBrasil’99 - V Congress and Exhibition of Latin America Geo-processing Users, Salvador, Brasil, 19-23 Julho, Edição em CD-ROM, 1999 (URI: <http://hdl.handle.net/1822/5598>).

Santos, Maribel, Orlando Belo e Luís Amaral, “The PRISMA System: Intelligent Agents working on Crime Pattern Analysis supported by Geographic Information Systems”, GIS PlanET’98 - International Conference and Exhibition on Geographic Information, Lisboa, Portugal, 7-11 Julho, Edição em CD-ROM, 1998 (URI: <http://hdl.handle.net/1822/5607>).

National Conferences:

Andrade, Carina, e Maribel Yasmina Santos, “O Twitter como agente facilitador de recolha e interpretação de sentimentos: Exemplo na escolha da palavra do ano”, Actas da 15ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI’2015), Lisboa, 2-3 Outubro, 2015.

Faustino, Bruno, João Moura-Pires e Maribel Yasmina Santos, “Implementação Eficiente do Shared Nearest Neighbour em Dados Espaciais”, Actas do 4º InForum – Simpósio de Informática (INFORUM 2012), Caparica, 6-7 Setembro, 2012 (URI: <http://hdl.handle.net/1822/21539>).

Costa, Sérgio, e Maribel Yasmina Santos, “Sistema de Business Intelligence no suporte à Gestão Estratégica: Caso prático no comércio de equipamentos eletrónicos”, Actas da 12ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2012), Guimarães, 7 Setembro, 2012 (URI: <http://hdl.handle.net/1822/21541>).

Piedade, Beatriz, e Maribel Yasmina Santos, “Adopção do conceito e da prática de SRM (Student Relationship Management) nas instituições de ensino superior”, Actas da 8ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2008), Setúbal, 29-31 Outubro, 2008.

Carvalho, Elizabeth, Adérito Marcos, Maribel Y. Santos e Paulo Brito, “Analysing and Visualizing a Human Body Cartographically”, Actas do 15º Encontro Português de Computação Gráfica (EPCG’2007), Oeiras, Lisboa, 15-17 Outubro, 2007, pp. 9-18 (ISBN 972-98464-8-0) (URI: <http://hdl.handle.net/1822/7335>).

Almeida, Suzete, e Maribel Yasmina Santos, “Disseminação de Informação Geográfica nas Autarquias Locais – O Caso da Câmara Municipal da Póvoa de Varzim”, IX Encontro de Utilizadores de Informação Geográfica – ESIG’2006, Lisboa, 15-17 Novembro, 2006 (URI: <http://hdl.handle.net/1822/6221>).

Santos, Maribel Yasmina e Adriano Moreira, “Automatic Classification of Location Contexts with Decision Trees”, Proceedings of the Conference on Mobile and Ubiquitous Systems (CSMU’2006), Guimarães, Portugal, 29-30 June, 2006, pp. 79-88 (ISBN 972-8692-29-3) (URI: <http://hdl.handle.net/1822/5582>).

Botica, Natália, Maribel Yasmina Santos e Francisco Sande Lemos, “Servatis – um sistema de apoio à actividade arqueológica”, Actas da 5ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI 2004), Lisboa, 3-5 Novembro, 2004 (Edição em CD-ROM - ISBN 972-99387-1-7) (URI: <http://hdl.handle.net/1822/936>).

Arouca, David, Carlos Figueiredo, Rui José, Ricardo Machado, Paula Monteiro, Adriano Moreira, Jason Pascoe, Luís Pinheiro, Helena Rodrigues, Leonel Santos, Maribel Santos, Abílio Silva e Dirk Tilsner, “Os Sistemas de Informação Geográfica no suporte a Serviços Móveis para o Cidadão”, Actas do VIII Encontro de Utilizadores de Informação Geográfica, Oeiras, 2-4 Junho, 2004 (Edição em CD-ROM) (URI: <http://hdl.handle.net/1822/2356>).

Ramos, Isabel, e Maribel Yasmina Santos, “Data Mining no suporte à construção de conhecimento organizacional”, Actas da 4ª Conferência da Associação Portuguesa de Sistemas de Informação, Porto, 15-17 Outubro, 2003 (Edição em CD-ROM – ISBN 972-9354-42-1) (URI: <http://hdl.handle.net/1822/2302>).

Botica, Natália, Maribel Yasmina Santos e Francisco Sande Lemos, “Modelo Preditivo de Património Arqueológico”, Actas da 4ª Conferência da Associação Portuguesa de Sistemas de Informação, Porto, 15-17 Outubro, 2003 (Edição em CD-ROM – ISBN 972-9354-42-1) (URI: <http://hdl.handle.net/1822/5595>).

Santos, Maribel Yasmina e Luís Amaral, “Data Mining Espacial: um Estudo de Caso”, Actas da 3ª Conferência da Associação Portuguesa de Sistemas de Informação, Coimbra, Portugal, 20-22 de Novembro, 2002 (Edição em CD-ROM - ISBN 972-97548-7-X) (URI: <http://hdl.handle.net/1822/2303>).

Santos, Maribel Yasmina e Luís Amaral, “Técnicas de Modelação de Informação Geográfica: uma síntese”, Actas da 3ª Conferência da Associação Portuguesa de Sistemas de Informação, Coimbra, Portugal, 20-22 de Novembro, 2002 (Edição em CD-ROM – ISBN 972-97548-7-X) (URI: <http://hdl.handle.net/1822/2304>).

Félix, Rafael, Fernanda Faria, Maribel Yasmina Santos e Pedro R. Henriques, “XML na Demografia Histórica: Anotação de Registos Paroquiais”, Actas da 3ª Conferência da Associação Portuguesa de Sistemas de Informação, Coimbra, Portugal, 20-22 de Novembro, 2002 (Edição em CD-ROM – ISBN 972-97548-7-X) (URI: <http://hdl.handle.net/1822/2335>).

Macedo, Joaquim e Maribel Yasmina Santos, “GeoCensus - Extracção de Informação Geográfica da Web”, Actas do VII Encontro de Utilizadores de Informação Geográfica, Oeiras, Portugal, 13-15 Novembro, 2002 (Edição em CD-ROM) (URI: <http://hdl.handle.net/1822/2336>).

Rodrigues, M. Fátima, Maribel Yasmina Santos e Pedro Rangel Henriques, “Realimentação em Sistemas para Extracção de Conhecimento em Bases de Dados”, Actas da 2ª Conferência da Associação Portuguesa de Sistemas de Informação, 21-23 Novembro, Évora, Portugal, 2001 (Edição em CD-ROM – ISBN 972-97869-7-6) (URI: <http://hdl.handle.net/1822/5597>).

Amorim, M. Norberta, Antero Ferreira, Fátima Rodrigues, Maribel Santos e Pedro Henriques, "Reconstituição de Paróquias e Formação de uma Base de Dados Central", Actas do VI Congresso da Associação de Demografia Histórica ADEH'01, Instituto Politécnico de Castelo Branco, 18-20 Abril, 2001 (URI: <http://hdl.handle.net/1822/4347>).

Santos, Maribel, e Luís Amaral, "O PADRÃO na Descoberta de Conhecimento em Bases de Dados Demográficas", Actas da 1ª Conferência da Associação Portuguesa de Sistemas de Informação, Guimarães, Edição em CD-ROM, 25-27 Outubro, 2000 (URI: <http://hdl.handle.net/1822/5583>).

Santos, Maribel, e Luís Amaral, "As Normas de Informação Geográfica e o Raciocínio Espacial Qualitativo na Inferência de Informação Geográfica Qualitativa", Actas do V Encontro sobre Sistemas de Informação Geográfica, Lisboa, Portugal, Edição em CD-ROM, 24-26 Novembro, 1999 (URI: <http://hdl.handle.net/1822/5576>).

Patentes

P2 (National Patent) Adriano Moreira and Maribel Yasmina Santos, PAT36455/07: "Process for the Automatic Calculus of the Convex or Concave Hull of an Arbitrary Set of Points", 16/11/2011.

P1 (International Patent) Carlos Correia, Ricardo J. Machado, Marco Couto, Patrícia Pinto, Paula Monteiro, Sérgio Oliveira, Armando Almeida, Teresa McIntyre, Maribel Yasmina Santos, Isabel Ramos and Carlos Oliveira, "Ubiquitous Analgesia Control System for the Real time Monitoring of Acute and Chronic Pain". U.S. Patent and Trademark Office, U.S.A., Patent number PT104756-A1, 06/05/2010.

Outras publicações

Santos, Maribel Yasmina and Isabel Ramos, "Como tornar o seu negócio realmente competitivo: desafios tecnológicos e de gestão", CXO – Tecnologias de Informação para Executivos, 4ª Edição (em edição), 2006.

Vasconcelos, Rosa, Maribel Santos, Sílvia Dias, Teresa Amorim and Luís Amaral, "Data Mining: Nova Técnica amplia Análise das Propriedades do Algodão", TEXTILIA, nº 52: Abr/Mai/Jun, 2004, 70-74.

Dias, Sílvia, Rosa Vasconcelos, Maribel Santos, Teresa Amorim and Luís Amaral, "Análise das Propriedades Físicas do Algodão com Técnicas de Data Mining", Nova Têxtil, Nº 68: 2º trimestre 2003, 51-56.

Santos, Maribel, "Evolução da função SI: uma avaliação nos serviços de informática de grande dimensão", Informação & Informática, 20 (1997), 29-38.

Fernandes, João Miguel, José Mendes and Maribel Yasmina Santos, "Oferta formativa na área das TICE: ensino formal e informal", Universidade do Minho, 2006.

Santos, Maribel Yasmina and Adriano Moreira, Technical Report TR1 – Automatic Classification of Location Contexts, Local Project (POSI/CHS/44971/2002), Maio, 2006.

Moreira, Adriano, Maribel Yasmina Santos and Sofia Carneiro, Delivery of the Clustering Model, s/w and documentation, Epsilon Project Report D42, December, 2004.

Rocha, Jorge Gustavo, Maribel Yasmina Santos and Pedro Rangel Henriques, Repositório de Metadados do SNIG atendendo ao ISO TC 211, PSEC CNIG, Relatório Técnico, Universidade do Minho, Outubro, 2001.

All Partners (Maribel Santos), Deliverable D3.1.1 - State-of-the-Art report", relatório técnico do projecto HYPERGEO, IST-1999-11641, Maio, 2000.

10. Communications in scientific meetings

Comunicações orais por convite

"Movement Data: From Storage to Spatial Data Analysis", Comunica+: III Jornadas de Engenharia de Comunicações, Universidade do Minho, Guimarães, Portugal, 30 de Maio, 2013.

"Objectos Móveis em Sistemas de Informação Geográfica: quais os desafios?", I Colóquio de Sistemas de Informação Geográfica: tendências, Sociedade de Geografia de Lisboa, Lisboa, Portugal, 3-4 Dezembro, 2012.

"Collecting, Storing and Analysing Data about Moving Objects", 4as. Jornadas Software Aberto para Sistemas de Informação Geográfica, Guimarães, Portugal, 2-4 Novembro, 2011.

"OLAP & Data Mining na Análise de Bases de Dados Organizacionais", Mestrado em Sistemas de Informação de Gestão, comunicação na Escola Superior de Gestão de Santarém, Instituto Politécnico de Santarém, 16 de Junho de 2011 (1 hour)

"Sistemas de Data Warehousing & OLAP", Mestrado em Gestão de Sistemas de Informação, ISCTE, Instituto Universitário de Lisboa, 30 de Março de 2011 (4 hours).

"Concave Hull: a k-nearest neighbours approach for the computation of the region occupied by a set of points", Programa Doutoral em Tecnologias e Sistemas de Informação, Universidade do Minho, 6 de Janeiro de 2011 (1 hour).

"Sistemas de Data Warehousing & OLAP", Mestrado em Gestão de Sistemas de Informação, ISCTE, Instituto Universitário de Lisboa, 31 de Março de 2010 (4 hours).

"Sistemas de Data Warehousing & OLAP", Mestrado em Gestão de Sistemas de Informação, ISCTE, Instituto Universitário de Lisboa, 06 de Maio de 2009 (4 hours)

"Planeamento Estratégico de Sistemas de Suporte à Decisão", communication to the students of the Master in Informatics and Master in Informatics Engineering, Universidade do Minho, 05/12/2008 (4 hours).

"Introdução aos Sistemas de Data Warehousing", module 3 (Business Intelligence), Organizational Information Systems, CEDT (Centro de Excelência de Desmaterialização de Transacções), 30/11/2008 (3 horas).

"Business Intelligence", communication to the students of the Master in Information Systems, Universidade do Minho, 09/11/2007 (4 hours).

"Business Intelligence como suporte ao negócio", communication at the Escola Superior de Tecnologia e Gestão, Instituto Politécnico de Viana do Castelo, Information Systems Seminar, 15/03/2007.

"Business Intelligence", communication at the Instituto Superior de Línguas e Administração de Lisboa (ISLA Lisboa), 28/02/2007 (2 hours).

- "Business Intelligence", communication at the Escola Superior de Gestão de Santarém, Instituto Politécnico de Santarém, 02/12/2006 (2 hours).
- "Business Intelligence", communication to the students of the Master in Information Systems, Universidade do Minho, 18/11/2006 (4 hours).
- "Sistemas de Informação Geográfica: os conceitos e a integração com técnicas de data mining", communication to the students of the Master in Information Systems, Universidade do Minho, 10/12/2005 (4 hours).
- "Sistemas de Informação Geográfica", communication to the students of the Master in Information Systems, Universidade do Minho, 03/12/2004 and 07/01/2005 (4 hours).
- "Informação Geográfica: os conceitos e a integração com técnicas de data mining", communication to the students of the Master in Information Systems, Universidade do Minho, 16/07/2004 (4 hours).
- "Descoberta de Conhecimento: Um Estudo de Caso no Clementine Data Mining System", communication to the students of the Escola Superior de Gestão de Santarém, Instituto Politécnico de Santarém, 06/02/2004.
- "Data Mining e Raciocínio Espacial Qualitativo na Descoberta de Conhecimento em Bases de Dados Georeferenciadas", communication to the students of Escola Superior de Gestão de Santarém, Instituto Politécnico de Santarém, 07/03/ 2003.
- "Raciocínio Espacial Qualitativo: o conceito e os princípios", communication to the students of the Master in Informatics, Universidade do Minho, 17/05/2002.
- "Data Mining: um caso de estudo", communication to the students of Instituto Politécnico do Cávado e do Ave, Barcelos, 28/05/2002.
- "Descoberta de conhecimentos em Bases de Dados e Data Mining", communication to the students of the Master in Informatics, Universidade do Minho, 04/05/2001 (with M. Fátima Rodrigues).
- Outras comunicações orais**
- "A Data-driven Analytics Approach in the Study of Pneumonia's Fatalities", 2015 IEEE International Conference on Data Science and Advanced Analytics (DSAA'2015), October 19-21, Paris, France.
- "MyHealth: a cross-domain platform for healthcare", Symposium on Applied Computing (SAC'2015), Salamanca, Spain, April 13-17, 2015.
- "Are wildfires and pneumonia spatially and temporally related?", International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015), Granada, Spain, 15-17 April, 2015.
- "Characterization of pneumonia incidence supported by a business intelligence system", International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015), Granada, Spain, 15-17 April, 2015.
- "Automated Traffic Route Identification through the Shared Nearest Neighbour Algorithm", Workshop on Analysis & Visualization of MOVEMENT: where are we now?, 4th Management Committee and Working Groups Meeting, COST Action MOVE IC0903 (Knowledge Discovery from Moving Objects), October 10-11, 2012, Thessaloniki, Greece.
- "Data Mining in the Study of the Chronic Obstructive Pulmonary Disease", 3rd International Conference on Information Technology in Bio- and Medical Informatics (ITBAM'2012), LNCS, 3-7 September, Vienna, Austria, 2012.
- "Mining RADIUS Data: How to detect movement patterns?", Complex Data Mining in a GeoSpatial Context Workshop, 15th AGILE International Conference on Geographic Information Science, April 24-27, 2012, Avignon, France.
- "Automated Traffic Route Identification through the Shared Nearest Neighbour Algorithm", 15th AGILE International Conference on Geographic Information Science, April 24-27, 2012, Avignon, France, Springer-Verlag.
- "A Business Intelligence Infrastructure Supporting Respiratory Health Analysis", First International Conference on Business Intelligence and Technology (BusTECH'2011), Rome, Italy, 25-30 September 2011.
- "Towards a Spatio-Temporal Information System for Moving Objects", 11th International Conference on Computational Science and Its Applications – Geographical Analysis, Urban Modeling, Spatial Statistics Session, University of Cantabria, Santander, Spain, 20-23 June, 2011.
- "On the Derivation of Class Diagrams from Use Cases and Logical Software Architectures", The 5th International Conference on Software Engineering Advances (ICSEA'2010), Nice, France, August 21-27, 2010.
- "Analysis of the quality of life after an endoscopic thoracic sympathectomy: a business intelligence approach", The Second International Conference on Advances in Databases, Knowledge, and Data Applications, Les Menuires, France, April 11-16, 2010.
- "Mining Healthcare Data: The Case of an Endoscopic Thoracic Sympathectomy Dataset", The 9th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases (AIKED'2010), Cambridge, UK, 20-22 February, 2010.
- "How a Circular Spatially Extended Point is Topological Related with a Line?", 2009 International Conference of Computational Intelligence and Intelligent Systems, London, 1-3 July, 2009.
- "Medical Diagnoses with a Cartographic Oriented Model", 11th. AGILE International Conference on Geographic Information Science, Girona, Spain, 5-8 May, 2008.
- "Topological Spatial Relations between a Spatially Extended Point and a Line for Predicting Movement in Space", 10th. AGILE International Conference on Geographic Information Science, Aalborg, Denmark, 8-11 May, 2007.
- "Automatic Classification of Location Contexts with Decision Trees", Conference on Mobile and Ubiquitous Systems (CSMU'2006), Guimarães, Portugal, 29-30 June, 2006.
- "O Data Mining na Compreensão do Fenómeno da Dor: Uma Proposta de Aplicação", 1ª Conferência Ibérica de Sistemas e Tecnologias de Informação, 21-23 Junho, Esposende, Portugal, 2006.

- "Space Models as a Tool for Sustainability Development", 2005 Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems, 5-10 June, Croatia, 2005.
- "Knowledge Discovery Process Supporting Organizational Learning", International Conference IADIS WWW/Internet 2003, 5-8 November, Algarve, Portugal, 2003.
- "Data Mining no suporte à construção de conhecimento organizacional", 4ª CAPSI - Conferência da Associação Portuguesa de Sistemas de Informação, Porto, 15-17 Outubro, 2003.
- "Data Mining Espacial: um Estudo de Caso", 3ª CAPSI - Conferência da Associação Portuguesa de Sistemas de Informação, Coimbra, 20-22 Novembro, 2002.
- "Técnicas de Modelação de Informação Geográfica: uma síntese", 3ª CAPSI - Conferência da Associação Portuguesa de Sistemas de Informação, Coimbra, 20-22 Novembro, 2002.
- "Knowledge Discovery in Spatial Databases through Qualitative Spatial Reasoning", 4th International Conference and Exhibition on Practical Applications of Knowledge Discovery and Data Mining (PADD'00), Manchester, 11-13 Abril, 2000.
- "A Qualitative Spatial Reasoning Approach in Knowledge Discovery in Spatial Databases", 2nd International Conference Data Mining 2000: Data Mining Methods and Databases for Engineering, Finance and Others Fields, Cambridge, 5-7 Julho, 2000.
- "O PADRÃO na Descoberta de Conhecimento em Bases de Dados Demográficas", 1ª CAPSI - Conferência da Associação Portuguesa de Sistemas de Informação, Guimarães, 25-27 Outubro, 2000.
- "As Normas de Informação Geográfica e o Raciocínio Espacial Qualitativo na Inferência de Informação Geográfica Qualitativa", V Encontro sobre Sistemas de Informação Geográfica, Lisboa, 24-26 Novembro, 1999.
- "The PRISMA System: Intelligent Agents working on Crime Pattern Analysis supported by Geographic Information Systems", GIS PlaNET '98 - International Conference and Exhibition on Geographic Information, Lisboa, 7-11 Julho, 1998.

11. Languages

Language	Reading	Writing	Conversation
Spanish	Very good	Very good	Very good
English	Very good	Very good	Good
Portuguese	Very good	Very good	Very good