

# CURRICULUM VITAE – MARIELBA SILVA DE ZACARIAS

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## PERSONAL INFORMATION

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## SUMMARY

I am a Computer Engineering (1982) with a MSc degree in Systems Engineering (1996), and a PhD in Informatics and Computers Engineering (2008). I have devoted my whole career to the Information Systems field, spending the first years as a programmer and systems analyst and later as a project manager. During the first years I had the opportunity of developing a variety of systems including an expert system of liming recommendations for acid soils in Venezuela and the Information System of Venezuelan Lands. In 2001 I moved to Portugal where I completed my PhD and have been dedicated exclusively to teaching and research activities in the area of Organizational Engineering, which focuses on organizational analysis and modeling.

## EDUCATION

- 1977 September → 1982 July** *Computer Engineering*  
Universidad Simón Bolívar (Caracas, Venezuela).  
Degree acknowledged in Portugal by the Universidade do Algarve.
- 1991 September → 1996 July** *Ms.Sc. Systems Engineering*  
Universidad Simón Bolívar (Caracas, Venezuela).  
Degree acknowledged in Portugal by the ISCTE of Lisbon.
- 2003 March → 2008 July** *Ph.D. Computer and Informatics Engineering*  
Area: Information Systems.  
Instituto Superior Técnico (Lisbon, Portugal).

## JOB POSITIONS

- 2008 July → ...** *Assistant Professor*  
Assistant Professor at University of Algarve (UAlg) located in Faro, Portugal. Member of Department of Electronics and Informatics (DEEI), at the School of Science and Technology (FCT), and collaborator at the School of Economics and Management (FE).  
Responsible for the master courses of *Information and Knowledge Management*, lectured for DEEI and FE students and *Enterprise Information Systems*, lectured for DEEI students.  
Responsible the pre-graduate courses *Systems Analysis* and *Modeling and Human-Computer Interaction*, lectured for DEEI students.

**2001 May → 2008 June** *Lecturer*

Lecturer at UAlg. Responsible for the disciplines of Database Systems, Software Engineering, Computer Architecture, Imperative Programming, and Systems Programming. I also created and lectured Enterprise Information Systems.

**1997 September → 2001 April** *Project Manager*

Project Manager at DELFOS (Valencia, Venezuela). Project Management activities. Client relationship management. Elaboration of systems specification and documentation. Data base conceptual design. Reporting to general management. Planning of user training courses

**1995 September → 1996 July** *Teaching Assistant*

Teaching Assistant at Simón Bolívar University (Caracas, Venezuela). Assistant in laboratories of Database Systems and Information Systems disciplines

**1993 January → 1995 August** *IT Consultant*

Self-employed IT Consultant (Maracay, Venezuela). Hardware and software requirement identification and specification of small organizations. Software installation and configuration

**1983 January → 1992 December** *Informatics Specialist*

Informatics Specialist at FONAIAP (now INIA) an Agricultural and Veterinary Research Center (Maracay, Venezuela). Responsible for user requirements identification and specification, systems development and user training.

*Major development projects:* Information System for Research Projects Budget Planning. Information System for Budget Control of Research Projects. Expert System for Fertilizing Recommendations for Soils in Venezuela. Expert System for Liming Recommendations for Acid Soils in Venezuela. Co-author of a book on this topic.

RESEARCH INTERESTS

- Individual, inter-personal and group work patterns and practices
- Organizational theories, models and concepts
- Enterprise Architectures and Ontologies
- Agent-Oriented Conceptual Modeling
- Business Activity Modeling and Monitoring
- Context & Competency models
- Social Web
- Semantic technologies
- Interaction Design

## AFFILIATIONS

- 2003 → 2009** *INOV*  
Member of the Organizational Engineering group of the INOV (Lisbon, Portugal)
- 2008** → ... *Nucleo IDT-Algardata*  
Member of the Research and Development nucleus of Algardata, (Loulé, Portugal)
- 2010 April** → ... *CIEO*  
Member of the Research Center for Spatial and Organizational Dynamics (Faro, Portugal)

## BOARDS

- 2008** → ... *MEIE*  
Member of the Executive Board of the Master Program “Empreendedorismo e Economia da Inovação” (MEIE) lectured by the Economics and Management Faculty at UAlg
- 2008** → ... *PDGIT*  
Member of the Executive Board of the PhD Program “Gestão da Inovação e do Território” (PGDIT) from the Economics and Management Faculty at UAlg
- 2009** → ... *IJODE*  
Member of the Editorial board of the International Journal in Organizational Design and Engineering (IJODE)
- 2010** → ... *CIEO*  
Member of the Executive Board of the CIEO Research Center at UAlg. Responsible for online marketing policy

## PROGRAM COMMITTEES

- ACM-SAC Conference - Organizational Engineering Track (2006-2011)
- Context-based reasoning & Context Awareness Workshop (CaCoA 2007)
- 1st Enterprise Engineering Working Conference (EEWC 2011)
- Collaborative Modeling minitrack at HICSS-45 (2011)
- Conference on Electronics, Telecommunications and Computers (CETC 2011)
- 7th International Workshop on Modelling and Reasoning in Context (MRC 2011)
- 7th International Workshop on Modelling and Reasoning in Context (MRC 2008)
- 4th Brazillian Workshop on Semantic Web and Education (WSWED@SBIE-WIE 2011)

ORGANIZING  
COMMITTEES

- 1st Workshop on Organizational Engineering and Design, IWODE 2009
- MRC 5th Workshop on Modeling and Reasoning in Context, MRC 2008
- MRC 6th Workshop on Modeling and Reasoning in Context, MRC 2010
- 12th European Conference on Creativity and Innovation, ECCI 2011

PHD THESIS  
SUPERVISIONS

- 2008** → **2011** Nuno Castela “As-Is Representation in Enterprise Engineering”
- 2008** → ... António Gonçalves, “Framework for Coordinated Activities”
- 2008** → ... Natália Serra, “Competency Development Framework”

MASTER THESIS  
SUPERVISIONS

- Marzieh Bakhshandeh “Integrated Enterprise Ontology Formalization”, Master in Informatics Engineering, UAlg. October, 2011
- Hector Rubilar. “Agent and Contexts Ontology Formalization”. Master in Informatics Engineering, UAlg. July, 2011
- João Mendes. “Engenharia Organizacional: Consciência Organizacional e Gestão da Mudança”. Master in Informatics Engineering, IST. July, 2009
- João Marques. “Engenharia Organizacional: Modelação de Competências”. Master in Informatics Engineering, IST. July, 2009
- Pedro Ferreira. “Levantamento de processos de negócio por observação de contextos”. Masters thesis in Informatics Engineering, IST. July, 2006
- Ana Rita Fernandes, “Modelação de Contextos em Engenharia Organizacional”. Masters thesis in Informatics Engineering, IST. July, 2005

FINAL PROJECT  
SUPERVISIONS

- Claudia Maria, “Analisador de contextos interpessoais em ambientes de trabalho”. Final project for Informatics Engineering degree, Algarve University, 2007
- Tiago Viseu and Abobokar Kara. “Modelação de Acções, Interações e Contextos”. Final project for Informatics Engineering degree, IST, 2006
- João Ferreira and Patrick Pereira. “Context Explorer”. Final project for informatics engineering degree, Algarve University, 2006
- Ruben Gomes and José Coimbra, “Descoberta de contextos pessoais em ambientes de trabalho”. Final project for Informatics Engineering degree, Algarve University, 2006
- João Paulo Correia. “Sistema de Informação de Assistência Técnica da empresa Algardat (Algarassist)”. Final project for Informatics Engineering degree, Algarve University, 2006

- THESIS  
EXAMINATIONS
- Jury member of the PhD thesis “Interfaces Pessoa-Máquina em Ambientes de Programação Logo”. July, 2011
  - Jury member of the master’s thesis “Technological learning in Microalgae Production Systems: Revisiting the experience curve and learning mechanisms”. February 2011
  - Examiner of the master’s thesis “MAPA: Monitoring and Annotation of Business Processes and Activities”, Paulo Dias. December, 2010
  - Examiner of the the master’s thesis “Refinamento de Diagramas de Classes: Análise e Verificação”, Ana Ferreira. May, 2010
- PROJECT  
EVALUATIONS
- *Context Awareness in Predictive Analytics (CAPA)*. Submitted to the Dutch Technology Foundation STW, Open Technology Program, March 2011.
- SEMINARS
- “Exploring User-Driven Technological Change of Discontinued Home Video Games Hardware: An Activity Theory Based Approach”, Jorge Graça and Marielba Zacarias. CIEO, Feb 2011
  - “Collaborative Methods for Business Process Discovery”, Paula Ventura and Marielba Zacarias. CIEO, Feb 2011
- OTHER ACTIVITIES
- Founding member of the Association for the Paulo Condado Foundation, dedicated to fund research in assistive technologies, since 2011
  - Team for business process discovery and modelling at UAlg, 2010
  - Open Week coordinator at UAlg in 2009 and 2011
  - Open Week collaborator at UAlg in 2009, 2010 and 2011
- BOOKS
- [1] Zacarias, M., Oliveira, J.V., eds. *Human-Computer Interaction: The Agency Perspective*. Studies in Computational Intelligence. Springer (In Press), **2012**.
  - [2] Lopez, I., Zacarias, M. *Sistema Experto para recomendaciones de cal en los suelos de Venezuela*. No. 3 in SERIE D. Maracay, Venezuela: INIA. Centro Nacional de Investigaciones Agropecuarias, **2002**.
- JOURNAL PAPERS
- [3] Castela, N., Dias, P., Zacarias, M., Tribolet, J. Collaborative maintenance of business process models. *International Journal on Organizational Design and Engineering*, **2012**.
  - [4] Zacarias, M., Reis, P., Pinto, H.S., Tribolet, J. Towards enterprise architecture frameworks for complex evolving systems and organisations. *International Journal of Organizational Design and Engineering*, **2011**.
  - [5] Zacarias, M., Magalhães, R., Pinto, H. S., Tribolet, J. Defining an architectural view for human resources. *International Journal of Business Information Systems*, 5(4), **2010**.
  - [6] Zacarias, M., Magalhães, R., Pinto, H.S., Tribolet, J. An agent-centric and ‘context-aware’ perspective for the alignment between individuals and organizations. *Information Systems*, 35(4):441–466, **2010**.

- [7] Magalhães, R., Zacarias, M., Tribolet, J. Making sense of enterprise architectures as tools of organizational self-awareness. *Journal of Enterprise Architecture*, 3(4):64–72, **2008**.
- [8] Zacarias, M., Serendero, P., Pinto, H. S., Tribolet, J. Capturing and modeling work practice: A context-based approach. *Revue d'Intelligence Artificielle: Context Modeling and Reasoning*, 5(22):669–688, **2008**.

BOOK CHAPTERS

- [9] Tribolet, J., Zacarias, M., Magalhães, R. *Innovation for Development*, chap. Enhancing Organizational Self-Awareness with Enterprise Modeling Frameworks, pp. 21–36. CIEO, UAlg, **2009**.
- [10] Zacarias, M., Magalhães, R., Tribolet, J. *Handbook of Research on E-Transformation and Human Resource Management Technologies: Organizational Outcomes and Challenges*, chap. Modeling Human Resources in the Emergent Organization, pp. 232–251. Information Science Reference, **2009**.
- [11] Zacarias, M., Magalhães, R., Caetano, A., Pinto, H.S., Tribolet, J. *Ontologies for Business Interactions*, chap. Towards Organizational Self-Awareness: An Initial Architecture and Ontology, pp. 101–120. IDEA Group, **2008**.
- [12] Zacarias, M., Pinto, H. S., Tribolet, J. *Discovering Multi-Tasking Behavior at Work: A Context-Based Ontology*, vol. 4385 of *LNCS*, pp. 292–307. Springer, **2007**.

CONFERENCE PAPERS

- [13] Castela, N., Zacarias, M., Tribolet, J. Proasis: As-is business process model maintenance. In *3rd Conference on Practice-driven Research on Enterprise Transformation*. **2011**.
- [14] Condado, P. A., Godiho, R., Zacarias, M., Lobo, F. G. Easywrite: A touch-based entry method for mobile devices. In *Interact 2011 Workshop on Mobile Accessibility (MOBACC 2011)*. **2011**.
- [15] Gonçalves, A., Zacarias, M., Sousa, P. Analyzing people's work carried out in organizations and relationship with technology. In *Enterprise Information Systems. International Conference, CENTERIS 2011. Algarve, Portugal, October*. **2011**.
- [16] Ventura, P., Zacarias, M. Bam: Business alignment methodology. In *Enterprise Information Systems. International Conference, CENTERIS 2011. Algarve, Portugal, October*. **2011**.
- [17] Ventura, P., Zacarias, M., Castela, N., Dias, P. Collaborative business process discovery: Method and case study. In *EuroSPI 2011 Industry-Experience track*. **2011**.
- [18] Cassens, J., Kofod-Petersen, A., Zacarias, M., Wegener, R., eds. *6th International Workshop on Modeling and Reasoning in Context Proceedings, held in conjunction with the European Conference of Artificial Intelligence (ECAI 2010), August 2010, Lisbon, Portugal*. **2010**.
- [19] Castela, N., Dias, P., Zacarias, M., Tribolet, J. MAPA: Monitoring and annotation of business processes. In *Enterprise Information Systems. International Conference, CENTERIS 2010. Viana do Castelo, Portugal, October 2010. Proceedings Part I*, pp. 101–110. Springer, **2010**.

- [20] Castela, N., Zacarias, M., Tribolet, M. Dynamic business process model updating. In *Enterprise Information Systems. International Conference, CENTERIS 2010. Viana do Castelo, Portugal, October 2010. Proceedings Part II*, pp. 158–167. Springer, **2010**.
- [21] Marques, J., Zacarias, M., Tribolet, J. Bottom-up competency modeling. In A. Albani, J. Dietz, eds., *6th International Workshop on Cooperation and Interoperability - Architecture and Ontology CIAO! 2010 held at DESRIST 2010. St. Gallen, Switzerland*, 49. LNBIP, Springer, **2010**.
- [22] Cassens, J., Kofod-Petersen, A., Leake, D., Zacarias, M., eds. *5th International Workshop on Modeling and Reasoning in Context Proceedings, held in conjunction with the International Conference on Human-Centered Processes (HCP 08), 2010, Delft, Netherlands*. **2008**.
- [23] Zacarias, M., Magalhães, R., Tribolet, J. Engineering the organization from the bottom-up. In *2nd International Workshop on Human Resource Management Systems*. Barcelona, Spain, **2008**.
- [24] Zacarias, M., Pinto, H. S., Tribolet, J. Automatic discovery of personal action contexts. In *5th International Workshop on Modeling and Reasoning in Context*. Delft, Netherlands, **2008**.
- [25] Caetano, A., Zacarias, M., R., Silva, Tribolet, J. A framework for business process modeling and alignment. In *IRMA 2007 Business Process Management Track*, pp. 683–687. **2007**.
- [26] Ferreira, D., Zacarias, M., Malheiros, M., Ferreira, P. Approaching process mining with sequence clustering: Experiments and findings. In G. Alonso, P. Dadam, M. Roseman, eds., *Business Process Management. 5th International Conference, BPM 2007*, vol. 4714 of *LNCS*, pp. 360–374. Springer, **2007**.
- [27] Pombinho, J., Caetano, A., Zacarias, M., Tribolet, J. Modeling organizational competencies for business process description and alignment. In *2007 IRMA International Conference*, pp. 776–780. **2007**.
- [28] Zacarias, M., Caetano, A., Magalhães, R., Tribolet, J. Adding a human perspective to enterprise architectures. In *18th International Conference on Database and Expert Systems Applications (DEXA '07)*, pp. 840–844. IEEE Computer Society Press, **2007**.
- [29] Zacarias, M., Pinto, H. S., Tribolet, J. Integrating engineering, cognitive and social approaches for a comprehensive modeling of organizational agents and their contexts, , heidelberg: Springer, 2007. In *6th Interdisciplinary Conference in Modeling and Using Context, (CONTEXT '07)*, vol. 4635 of *LNCS (LNAI)*, pp. 517–530. Springer, **2007**.
- [30] Zacarias, M., Pinto, H. S., Tribolet, J. Reverse engineering of personal and inter-personal work practices: A context-based approach. In *4th International Workshop on Modeling and Reasoning in Context (MRC '07)*, pp. 75–88. **2007**.
- [31] Zacarias, M., Gomes, R., Coimbra, J., Pinto, H. S., Tribolet, J. Discovering personal action contexts with SQL Server Integration and Analysis Services. In A. Garcia, T. Batista, R. Choren, C. Lucena, eds., *2nd International Conference on Innovative Views of .NET Technologies (IVNET '06), Oct. 2006* ., pp. 217–236. Florianópolis, Brazil, **2006**.

- [32] Zacarias, M., Pinto, H. S., Tribolet, J. A context-based approach to discover multi-tasking behavior at work. In *5th International Workshop on Task Models & Diagrams for UI Design (TAMODIA '06)*, pp. 181–188. **2006**.
- [33] Caetano, A., Zacarias, M., Rito, A., Tribolet, J. Specifying business processes with role and business object models. In *16th International Resource Management Association Conference, (IRMA 2005). San Diego CA, USA. 2005*.
- [34] Caetano, A., Zacarias, M., Silva, R., Tribolet, J. A role based framework for business process modelling. In *38th Hawaii International Conference on System Sciences (HICSS '05)*, vol. 01, p. 13.3. **2005**.
- [35] Macedo, P., Zacarias, M. Projecto de investigação em modelação de processos de produção em engenharia organizacional: Discussão de técnicas e metodologias aplicadas. In *6.ª Conferência da Associação Portuguesa de Sistemas de Informação CAPSI. Bragança Portugal. 2005*.
- [36] Zacarias, M., Caetano, A., Pinto, H. S., Tribolet, J. Modeling contexts for a business process oriented support. In *2nd International Workshop on Knowledge Management and Distributed Agile Processes*, vol. 3782 of *LNCIS (LNAI)*, pp. 431–442. Springer, **2005**.
- [37] Zacarias, M., Marques, A. R., Pinto, H. S., Tribolet, J. Enhancing collaboration services with business context models. In *Workshops on Cooperative Systems and Context, and, Groupware and Context*, vol. 133. CEUR, **2005**.
- [38] Gonçalves, António, Zacarias, Marielba, Sousa, Pedro. Análise da práticas das pessoas numa organização sob a perspectiva da teoria da actividade. In *11a Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI). 2011*.
- [39] Gonçalves, António, Zacarias, Marielba, Sousa, Pedro. Proposta de um enquadramento analítico de suporte á dinâmica das actividades. In *11a Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI). 2011*.
- [40] Macedo, P., Zacarias, M. Projecto de investigação em modelação de processos de produção em engenharia organizacional: Discussão de técnicas e metodologias aplicadas. In *6a Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI). 2005*.
- [41] Zacarias, M., Pinto, H. S., Tribolet, J. Modelação de contextos em engenharia organizacional. In *5a Conferencia Portuguesa dos Sistemas de Informação (CAPSI). Lisboa, Portugal, 2004*.
- [42] Zacarias, M., Pinto, H. S., Tribolet, J. Redes de conhecimento em engenharia organizacional: O imperativo dos contextos de acção. *Cadernos BAD*, 1:6–20, **2004**.

PORTUGUESE  
PUBLICATIONS

DISCUSSION PAPERS

- [43] Ventura, P., Zacarias, M. Collaborative methods for business processes discovery. In *Discussion Papers. CIEO, UAlg, 2011*.



- TECHNICAL REPORTS
- [44] Lobo, F., Zacarias, M., Condado, P., Romão, T., Godinho, R., Moreno, M. Evaluating accessible synchronous cmc applications, **2011**.
  - [45] Zacarias, M., Magalhães, R., Caetano, A., Pinto, H. S., Tribolet, J. *A Complex, Adaptive Enterprise Architecture Framework*. Tech. Rep. 37/2006, INESC-ID, **2006**.
  - [46] Zacarias, M. *A Context-Based Actor Modeling Approach to support Human-Multitasking at Organizations: Thesis Proposal*. Tech. rep., IST, **2005**.
  - [47] Zacarias, M., Caetano, A., Pinto, H. S., Tribolet, J. *Modeling Organizations: The Operating Systems Metaphor*. Tech. Rep. 5/2005, INESC-ID, **2005**.
  - [48] Zacarias, M., Pinto, H. S., Tribolet, J. *Notion, theories and models of Context: Engineering, Cognitive and Social Perspectives*. Tech. Rep. 41/2005, INESC-ID, **2005**.