



Curriculum Vitae

Luís Ferreira Pires

11 February 2012

1 Summary

1.1 Personal data

- *Family name:* Ferreira Pires
- *Christian name:* Luís
- *Place of birth:* São Paulo, SP, Brazil
- *Date of birth:* April 7, 1961
- *Nationality:* Brazilian/Dutch
- *Home address:*
Tuinfluiterstraat 2
7557 BZ Hengelo (Ov)
the Netherlands
- *Work address:*
Faculty of Electrical Engineering, Mathematics and Computer Science
University of Twente
P.O. Box 217
7500 AE Enschede
the Netherlands
- *Marital status:* Married, three children

1.2 Degrees

- *PhD degree,* University of Twente, Enschede, the Netherlands, 1994.
- *MSc degree,* ‘Escola Politécnica da Universidade de São Paulo’, São Paulo, Brazil, 1989.
- *Engineer degree,* ‘Instituto Tecnológico de Aeronáutica’ (ITA), São José dos Campos, Brazil, 1983.

1.3 Employment record

- *Associate professor* (‘Universitair Hoofd Docent’) of the Department of Computer Science, University of Twente, Enschede, the Netherlands, since August 1995.
- *Assistant professor* (‘Universitair Docent’) of the Department of Electrical Engineering, University of Twente, Enschede, the Netherlands, from October 1992 to July 1995.

- *Researcher* ('Medewerker Onderzoek') of the Department of Computer Science, University of Twente, Enschede, the Netherlands, from March 1988 to September 1992.
- *Engineer* at ITAUTEC Informática S.A., São Paulo, Brazil, from January 1984 to March 1988.
- *Trainee* at Instituto Nacional de Pesquisas Espaciais, São José dos Campos, Brazil, from March 1982 to December 1983.

1.4 Fields of activity

Design methods for service-oriented architectures, especially for context-aware mobile applications. Other fields of activity include model-driven engineering, modelling and specification techniques, middleware platforms and cloud computing.

2 Education and training

- *Doctor's degree* in Electrical Engineering at the Faculty of Electrical Engineering, University of Twente, Enschede, the Netherlands in 1994, after successfully defending the PhD Thesis entitled 'Architectural Notes: a Framework for Distributed Systems Development' (supervisor: Prof.dr.ir. Chris.A. Vissers).
- *Master's degree* in Electrical Engineering, specialisation Computer Networks, at the 'Escola Politécnica da Universidade de São Paulo' in 1989, after successfully defending his thesis entitled 'Projeto de Protocolos de Inter-rede com o uso da Técnica de Especificação Formal LOTOS - Especificações de Sistemas Intermediários com e sem conexão', and obtaining the maximum mark (supervisor: Prof. Stefania Stiubiener).
- *Bachelor's degree* in Electronics Engineering in 1983 at 'Instituto Tecnológico de Aeronáutica' (ITA), São José dos Campos, SP, Brazil.
- *Official reserve aspirant of the Brazilian Air Force* (engineering team), after concluding the 'Centro Preparatório de Oficiais da Reserva da Aeronáutica (CPOR-Aer)' course in 1980.

3 Languages

- He speaks and writes Portuguese (mother tongue), English and Dutch fluently.
- Degree of advanced knowledge ('uitgebreide kennis') in the Dutch Language in 1991, certificate which has been issued by the 'Nederlandse Taal Unie', Brussels, Belgium.
- First Certificate in English (FCE) at 'Sociedade Brasileira de Cultura Inglesa', São Paulo, SP, Brazil, in 1977, certificate which has been issued by the Cambridge University, UK.

4 Publications

4.1 Journal papers

Bonino da Silva Santos, L.O. and Sorathia, V.S. and Ferreira Pires, L. and van Sinderen, M.J. (2011) Towards a Conceptual Framework to Support Dynamic Service Provisioning for Non-Technical Service Clients. *Journal of Software*, 6 (4). pp. 564-573. ISSN 1796-217X

Gonçalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2011) Towards Runtime Discovery, Selection and Composition of Semantic Services. *Computer communications*, 34 (2). pp. 159-168. ISSN 0140-3664 *** ISI Impact 0,933 ***

Müller, R.M. and Linders, S. and Ferreira Pires, L. (2010) Business intelligence and service-oriented architecture: a Delphi study. *Information Systems Management*, 27 (2). pp. 168-187. ISSN 1058-0530 *** ISI Impact 0,765 ***

Ferreira Pires, L. and van Oostrum, A.R. and Wijnhoven, F. (2010) Service registry design: an information service approach. *International Journal of Information Systems in the Service Sector*, 2 (4). pp. 1-21. ISSN 1935-5688 (best paper ward in 2010)

Sorathia, V.S. and Ferreira Pires, L. and van Sinderen, M.J. (2010) An Analysis of Service Ontologies. *Pacific Asia Journal of the Association for Information Systems*, 2 (1). pp. 17-46. ISSN 1943-7544

Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. and Steen, M.W.A. (2009) Editorial - Special Issue on Model-driven Service-oriented architectures. *International journal of business process integration and management*, 4 (1). pp. 1-4. ISSN 1741-8763

Andrade Almeida, J.P. and Dijkman, R.M. and Ferreira Pires, L. and Quartel, D.A.C. and van Sinderen, M.J. (2006) Model-driven design, refinement and transformation of abstract interactions. *International Journal of Cooperative Information Systems*, 15 (4). pp. 599-632. ISSN 0218-8430

Dockhorn Costa, P. and Ferreira Pires, L. and van Sinderen, M.J. (2005) Designing a Configurable Services Platform for Mobile Context-Aware Applications. *International Journal of Pervasive Computing and Communications*, 1 (1). pp. 13-25. ISSN 1742-7371

Andrade Almeida, J.P. and van Sinderen, M.J. and Quartel, D.A.C. and Ferreira Pires, L. (2005) Designing interaction systems for distributed applications. *IEEE Distributed Systems Online*, 6 (3). ISSN 1541-4922

Quartel D.A.C. and Ferreira Pires L and van Sinderen M.J. (2002) On architectural support for behaviour refinement in distributed systems Design. In: *Journal of Integrated Design and Process Science* 6(1), 30 pages, ISSN (Online): 1092-0617

Quartel, D.A.C. and Ferreira Pires, L. and van Sinderen M.J. and Franken H.M. and Vissers C.A. (1997) On the role of basic design concepts in behaviour structuring. *Computer Networks and ISDN Systems* 29(4). pp. 413-436. ISSN 0169-7552

van Sinderen, M.J. and Ferreira Pires, L. and Vissers, C.A. and Katoen, J.P. (1995) A design model for open distributed processing systems. *Computer networks and ISDN systems*, 27(8). pp. 1263-1285. ISSN 0169-7552

van Sinderen, M.J. and Ferreira Pires, L. and Vissers, C.A. (1992) Protocol design and implementation using formal methods. *The Computer Journal*, 35(5):478-491

4.2 Conference and workshop papers

2011

van Amstel, M. and Bosems, S. and Kurtev, I. and Ferreira Pires, L. (2011) Performance in model transformations: experiments with ATL and QVT. In: *4th International Conference on Theory and Practice of Model Transformations, ICMT 2011*, 27-28 Jun 2011, Zurich, Switzerland. pp. 198-212. Lecture Notes in Computer Science 6707. Springer Verlag. ISSN 0302-9743 ISBN 978-3-642-21731-9

Hoppen dos Santos, J. and Ferreira Pires, L. and Goncalves da Silva, E.M. and Iacob, M.-E. (2011) Public service improvement with user-centric service composition. In: *Electronic Government and Electronic Participation, Joint Proceedings of the Ongoing Research and Projects of IFIP EGOV and ePart 2011*, 29 Aug - 1 Sep 2011, Delft, the Netherlands. pp. 276-284. Schriftenreihe Informatik 37. Trauner Verlag. ISBN 978-3-85499-515-9

Khadka, R. and Sapkota, B. and Ferreira Pires, L. and van Sinderen, M.J. and Jansen, S. (2011) WSCDL to WSBPEL: A Case Study of ATL-based Transformation. In: *Proceedings of the 3rd International Workshop on Model Transformation with ATL, MtATL 2011*, 01 Jul 2011, Zürich, Switzerland. pp. 89-103. CEUR Workshop Proceedings 742. CEUR-ws.org. ISSN 1613-0073

Khadka, R. and Sapkota, B. and Ferreira Pires, L. and van Sinderen, M.J. and Jansen, S. (2011) Model-driven development of service compositions for enterprise interoperability. In: *Proceedings of the Third International IFIP Working Conference on Enterprise Interoperability, IWEI 2011*, 23-24 Mar 2011, Stockholm, Sweden. pp. 177-190. Lecture Notes in Business Information Processing 76. Springer. ISSN 1865-1348 ISBN 978-3-642-19679-9

2010

Bonino da Silva Santos, L.O. and Ferreira Pires, L. and van Sinderen, M.J. (2010) Service Provisioning Support for Non-technical Service Clients. In: *Proceedings of the 7th International Conference on Information Technology*, 12-14 Apr 2010, Las Vegas, USA. pp. 672-677. IEEE Computer Society. ISBN 978-0-7695-3984-3

Bonino da Silva Santos, L.O. and Sorathia, V.S. and Ferreira Pires, L. and van Sinderen, M.J. (2010) An Approach to Dynamic Provisioning of Social and Computational Services. In: *Proceedings of the 6th IEEE Congress on Services*, 5-10 July 2010, Miami, FL, USA. pp. 24-31. IEEE Computer Society. ISBN 978-0-7695-4129-7

Daniele, L.M. and Ferreira Pires, L. and van Sinderen, M.J. (2010) Process-Oriented Behavior Generation Using Interaction Patterns. In: *14th IEEE International Enterprise Distributed*

Object Computing Conference Workshops (EDOCW 2010), 25-29 Oct 2010, Vitoria, Brazil. pp. 15-20. IEEE Computer Society. ISBN 978-0-7695-4164-8

Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2010) On the Support of Dynamic Service Composition at Runtime. In: *Service-Oriented Computing. ICSOC/ServiceWave 2009 Workshops*. Lecture Notes in Computer Science 6275. Springer Verlag, Berlin, pp. 530-539. ISBN 978-3-642-16131-5

Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2010) On the Design of User-centric Supporting Service Composition Environments. In: *Proceedings of IEEE International Conference on Information Technology: New Generations*, 12-14 April 2010, Las Vegas, Las Vegas, Nevada, USA. pp. 666-671. IEEE Computer Society. ISBN 978-0-7695-3984-3

Koster, S.R. and Iacob, M.-E. and Ferreira Pires, L. (2010) An evaluation framework for business process management products. In: *Business Process Management Workshops, BPM 2009 International Workshops, Revised Papers*, 7 Sept 2009, Ulm, Germany. pp. 441-452. Lecture Notes in Business Information Processing (43). Springer Verlag. ISSN 1865-1348 ISBN 978-3-642-12185-2

Sorathia, V.S. and Ferreira Pires, L. and van Sinderen, M.J. and Wijnhoven, A.B.J.M. (2010) Developing a Services Science Graduation Programme at the University of Twente. In: *Transforming Engineering Education: Creating Interdisciplinary Skills for Complex Global Environments, 2010 IEEE*, 6-9 Apr 2010, Dublin, Ireland. pp. 1-18. IEEE Computer Society. ISBN 978-1-4244-6040-3

Sorathia, V.S. and van Sinderen, M.J. and Ferreira Pires, L. (2010) Towards a Unifying Process Framework for Services Knowledge Management. In: *Exploring Services Science*, 17-19 Feb 2010, Geneva, Switzerland. pp. 295-299. Lecture Notes in Business Information Processing 53. Springer. ISSN 1865-1348 ISBN 978-3-642-14318-2

Steen, B. and Ferreira Pires, L. and Iacob, M.-E. (2010) Automatic generation of optimal business processes from business rules. In: *14th IEEE International Enterprise Distributed Object Computing Conference Workshops (EDOCW)*, 2010, 25 Oct 2010, Vitória, Brazil. pp. 117-126. IEEE Computer Society. ISBN 978-0-7695-4164-8

Wang, Lei and Ferreira Pires, L. and Wombacher, A. and van Sinderen, M.J. and Chi, Chihung (2010) Stakeholder interactions to support service creation in cloud computing. In: *14th IEEE International Enterprise Distributed Object Computing Conference Workshops (EDOCW)*, 2010, 26 Oct 2010, Vitória, Brazil. pp. 173-176. IEEE Computer Society. ISBN 978-0-7695-4164-8

2009

Bonino da Silva Santos, L.O. and Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2009) Towards a goal-based service framework for dynamic service discovery and composition. In: *Proceedings of the 2009 Sixth International Conference on Information Technology: New Generations*, 27-29 Apr 2009, Las Vegas, USA. pp. 302-307. IEEE Computer Society. ISBN 978-0-7695-3596-8

Bonino da Silva Santos, L.O. and Guizzardi, G. and Ferreira Pires, L. and van Sinderen, M.J. (2009) From User Goals to Service Discovery and Composition. In: *Advances in Conceptual Modeling - Challenging Perspectives*. Lecture Notes in Computer Science 5833. Springer Verlag, Berlin, pp. 265-274. ISBN 978-3-642-04946-0

Bonino da Silva Santos, L.O. and Guizzardi, G. and Guizzardi-Silva Souza, R. and Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2009) GSO: Designing a Well-Founded Service Ontology to Support Dynamic Service Discovery and Composition. In: *13th Enterprise Distributed Object Computing Conference Workshops*, 2009. EDOCW 2009, 1 Sept 2009, Auckland, New Zealand. pp. 35-44. IEEE Computer Society Press. ISBN 978-1-4244-5564-5

Daniele, L.M. and Ferreira Pires, L. and van Sinderen, M.J. (2009) An MDA-based approach for behaviour modelling of context-aware mobile applications. In: *Proceedings of the Fifth European Conference on Model-Driven Architecture Foundations and Applications*, ECMDA-FA 2009, 23-26 June 2009, Enschede, The Netherlands. pp. 206-220. Lecture Notes in Computer Science 5562. Springer Verlag. ISBN 978-3-642-02673-7

Daniele, L.M. and Ferreira Pires, L. and van Sinderen, M.J. (2009) Towards automatic behavior synthesis of a coordinator component for context-aware mobile applications. In: *13th Enterprise Distributed Object Computing Conference Workshops*, EDOCW 2009, 1-4 Sept 2009, Auckland, New Zealand. pp. 140-147. IEEE Computer Society Press. ISBN 978-1-4244-5563-8

Daniele, L.M. and Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2009) A SOA-based platform-specific framework for context-aware mobile applications. In: *Proceedings of the Second IFIP WG5.8 Workshop on Enterprise Interoperability*, IWEI 2009, 13-14 Oct 2009, Valencia, Spain. pp. 25-37. Lecture Notes in Business Information Processing 38. Springer Verlag. ISSN 1865-1356

Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2009) Supporting Dynamic Service Composition at Runtime based on End-user Requirements. In: *Proceedings of the International Workshop on User-generated Services*, UGS 2009, located at the 7th International Conference on Service Oriented Computing, ICSOC 2009, 24 November 2009, Stockholm. CEUR Workshop Proceedings. ISSN 1613-0073

Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2009) A Framework for the Evaluation of Semantics-based Service Composition Approaches. In: *Proceeding of IEEE European Conference on Web Services*, ECOWS 2009, 9-11 November 2009, Eindhoven. pp. 66-74. IEEE Computer Society Press. ISBN 978-0-7695-3854-9

Koster, S.R. and Iacob, M.E. and Ferreira Pires, L. (2009) An evaluation framework for business process management products. In: *First International Workshop on Empirical Research in Business Process Management (ER-BPM 2009)*, Workshop Proceedings, 7 Sep 2009, Ulm, Germany. pp. 17-28. University of Ulm. ISBN Not Available

Sorathia, V.S. and Ferreira Pires, L. and van Sinderen, M.J. and Wijnhoven, A.B.J.M (2009) Service Semantics Classification: an Approach Towards Modular Service Ontology. In: *Proceedings of the 4th International Workshop on Value Modeling and Business Ontologies*, 21-22 Dec 2009, Amsterdam, The Netherlands. SYSLAB Dept. of Computer and Systems Sciences at Stockholm University.

2008

- Bonino da Silva Santos, L.O. and Ferreira Pires, L. and van Sinderen, M.J. (2008) A Trust-Enabling Support for Goal-Based Services. In: *9th International Conference for Young Computer Scientists (ICYCS 2008)*, 18-21 Nov 2008, Zhang Jia Jie, China. pp. 2002-2007. IEEE Computer Society Press. ISBN 978-0-7695-3398-8
- Bonino da Silva Santos, L.O. and Ferreira Pires, L. and van Sinderen, M.J. (2008) A Goal-Based Framework for Dynamic Service Discovery and Composition. In: *Proceedings of the 2nd International Workshop on Architectures, Concepts and Technologies for Service Oriented Computing - ACT4SOC 2008*, 05 Jul 2008, Porto, Portugal. pp. 67-78. INSTICC Press. ISBN 978-989-8111-55-5
- Daniele, L.M. and Ferreira Pires, L. and van Sinderen, M.J. (2008) Interaction patterns for refining behaviour specifications of context-aware mobile services. In: *Joint Proceedings of the Workshops: IWUC, MDIES and TCoB*, 12 Jun 2008, Barcelona, Spain. pp. 64-76. INSTICC Press. ISBN 978-989-8111-49-4
- Daniele, L.M. and Ferreira Pires, L. and van Sinderen, M.J. (2008) Context handling in a SOA infrastructure for mobile applications. In: *Proceedings of the 2nd International Workshop on Architectures, Concepts and Technologies for Service Oriented Computing (ACT4SOC 2008)*, 5 July 2008, Porto, Portugal. pp. 27-37. INSTICC Press. ISBN 978-989-8111-55-5
- Dockhorn Costa, P. and Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. (2008) Evaluation of a rule-based approach for context-aware services. In: *2008 IEEE Global Telecommunications Conferences, GlobeCom 2008*, 30 Nov - 04 Dec 2008, New Orleans, Louisiana, USA. pp. 1657-1661. IEEE. ISSN 1930-529X ISBN 978-1-4244-2324-8
- Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2008) Dynamic Composition of Services: Why, Where and How. In: *Proceedings of the Second International Workshop on Enterprise Systems and Technology (I-WEST 2008)*, 23 May 2008, Enschede, The Netherlands. pp. 73-85. INSTICC Press. ISBN 978 989 8111 50 0
- Goncalves da Silva, E.M. and Martínez López, Jorge and Ferreira Pires, L. and van Sinderen, M.J. (2008) Defining and Prototyping a Life-cycle for Dynamic Service Composition. In: *Proceeding of the Second International Workshop on Architectures, Concepts and Technologies for Service Oriented Computing (ACT4SOC 2008)*, In conjunction with ICSOFT 2008, 5 Jul 2008, Porto, Portugal. pp. 79-90. INSTICC Press. ISBN 978 989 8111 55 5
- Mantovaneli Pessoa, R. and Goncalves da Silva, E.M. and van Sinderen, M.J. and Quartel, D.A.C. and Ferreira Pires, L. (2008) Enterprise Interoperability with SOA: a Survey of Service Composition Approaches. In: *Workshop on Enterprise Interoperability, IWEI 2008*, 18 Sep 2008, Munich, Germany. pp. 32-45. CTIT Workshop Proceedings WP08-05. Centre for Telematics and Information Technology, University of Twente. ISSN 0929-0672
- Shiaa, M. and Falcarin, P. and Pastor, A. and Lécué, F. and Goncalves da Silva, E.M. and Ferreira Pires, L. (2008) Towards the automation of the service composition process: case study and prototype implementations. In: *ICT-MobileSummit 2008 Conference Proceedings*,

10-12 June 2008, Stockholm, Sweden. pp. 1-8. IIMC International Information Management Corporation. ISBN 978-1-905824-08-3

2007

Bonino da Silva Santos, L.O. and Ferreira Pires, L. and van Sinderen, M.J. (2007) Architectural models for client interaction on service-oriented platforms. In: *Proceedings of the 1st International Workshop on Architectures, Concepts and Technologies for Service-Oriented Computing*, ACT4SOC 2007, 22 Jul 2007, Barcelona, Spain. pp. 19-27. INSTICC Press. ISBN 978-989-8111-08-1

Daniele, L.M. and Dockhorn Costa, P. and Ferreira Pires, L. (2007) Towards a rule-based approach for context-aware applications. In: *Proceedings of the 13th Open European Summer School and IFIP TC6.6 Workshop*, EUNICE 2007, July 18-20, 2007, Enschede, The Netherlands. pp. 33-43. Lecture Notes in Computer Science 4606. Springer Verlag. ISSN 0302-9743 ISBN 978-3-540-73529-8

Dockhorn Costa, P. and Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. (2007) Situation specification and realization in rule-based context-aware applications. In: *Seventh IFIP WG6.1 International Conference on Distributed Applications and Interoperable Systems*, DAIS 2007, 6-8 June 2007, Paphos, Cyprus. pp. 32-47. Lecture Notes in Computer Science 4531. Springer. ISBN 978-3-540-72881-8

Ferreira Pires, L. and Maatjes, N. and van Sinderen, M.J. and Dockhorn Costa, P. (2007) Model-driven approach to the implementation of context-aware applications using rule engines. In: *Proceedings of the Workshop on Model-driven Software Engineering*, 7 Nov 2007, Darmstadt, Germany. pp. 24-32. Technische Universitat Darmstadt.

Goncalves da Silva, E.M. and Ferreira Pires, L. and van Sinderen, M.J. (2007) An Algorithm for Automatic Service Composition. In: *1st International Workshop on Architectures, Concepts and Technologies for Service Oriented Computing*, ICSOFT 2007, 22 July 2007, Barcelona, Spain. pp. 65-74. INSTICC Press. ISBN 978-989-8111-08-1

Guareis de Farias, C.R. and Ferreira Pires, L. and van Sinderen, M.J. (2007) A case study on the transformation of context-aware domain data onto XML schemas. In: *Proceedings of the 3rd International Workshop on Model-Driven Enterprise Information Systems*, MDEIS 2007, 12 June 2007, Funchal, Portugal. pp. 63-72. INSTICC Press. ISBN 978-989-8111-00-5

Lécué, F. and Goncalves da Silva, E.M. and Ferreira Pires, L. (2007) A Framework for Dynamic Web Services Composition. In: *2nd ECOWS Workshop on Emerging Web Services Technology* (WEWST07), 26 Nov 2007, Halle, Germany. CEUR Workshop Proceedings. ISSN 1613-0073

2006

Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. (2006) Abstract Platform and Transformations for Model-Driven Service-Oriented Development. In: *Proceedings of the 2nd International Workshop on Model-Driven Enterprise Information Systems* MDEIS 2006, 23 May 2006, Paphos, Cyprus. pp. 49-63. INSTICC. ISBN 972-8865-56-6

Bonino da Silva Santos, L.O. and van Sinderen, M.J. and Ferreira Pires, L. (2006) Dynamic Service Discovery and Composition for Ubiquitous Networks Applications. In: *Proceedings of CoNEXT'06 2nd Conference on Future Networking Technologies*, 4-7 December 2006, Lisbon, Portugal. pp. 295-296. ACM SIGCOMM. ISBN 1-59593-456-1

Dockhorn Costa, P. and Andrade Almeida, J.P. and Ferreira Pires, L. and Guizzardi, G. and van Sinderen, M.J. (2006) Towards Conceptual Foundations for Context-Aware Applications. In: *Modeling and Retrieval of Context. Papers from the 2006 AAI Workshop*, 16-17 July 2006, Boston, Massachusetts. pp. 54-58. AAI Technical Report WS-06-12. AAI Press. ISBN 978-1-57735-294-5

Dockhorn Costa, P. and Ferreira Pires, L. and van Sinderen, M.J. and Broens, T.H.F. (2006) Controlling services in a mobile context-aware infrastructure. In: *Proceedings of the Second Workshop on Context Awareness for Proactive Systems*, CAPS 2006, 12-13 Jun 2006, Kassel, Germany. pp. 153-166. Kassel University Press. ISBN 3 89958 210 1

Dockhorn Costa, P. and Guizzardi, G. and Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. (2006) Situations in Conceptual Modeling of Context. In: *Proceedings of the 10th IEEE International Enterprise Distributed Object Computing Conference Workshops (EDOCW'06)*, 15-Oct, Hong Kong, China. pp. 6-16. IEEE Computer Society. ISBN 0-7695-2743-4

2005

Andrade Almeida, J.P. and Dijkman, R.M. and Ferreira Pires, L. and Quartel, D.A.C. and van Sinderen, M.J. (2005) Abstract interactions and interaction refinement in model-driven design. In: *9th IEEE Enterprise Distributed Object Computing (EDOC) Conference*, 19-23 Sep 2005, Enschede, The Netherlands. pp. 273-286. IEEE Computer Society. ISSN 1541-7719 ISBN 0-7695-2441-9

Andrade Almeida, J.P. and Dijkman, R.M. and van Sinderen, M.J. and Ferreira Pires, L. (2005) Platform-independent modeling in MDA: supporting abstract platforms. In: *Model Driven Architecture. European MDA Workshops: Foundations and Applications, MDFA 2003 and MDFA 2004*, Twente, The Netherlands, June 26-27, 2003 and Linköping, Sweden, June 10-11, 2004. Revised Selected Papers. pp. 174-188. Lecture Notes in Computer Science 3599. Springer Verlag. ISSN 0302-9743 ISBN 978-3-540-28240-2

Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. (2005) Dependencies between models in the model-driven design of distributed applications. In: *WSMDEIS 2005 Joint workshop on Web Services and Model-Driven Enterprise Information Systems*, 24 May 2005, Miami. pp. 95-109. INSTICC Press. ISBN 972-8865-27-9

Dockhorn Costa, P. and Ferreira Pires, L. and van Sinderen, M.J. (2005) Architectural Patterns for Context-Aware Services Platforms. In: *Second International Workshop on Ubiquitous Computing*, 2005, Miami. pp. 3-18. INSTICC Press. ISBN 972-8865-24-4

Guareis de Farias, C.R. and Gonçalves, C.E. and Rosatelli, M.C. and Ferreira Pires, L. and van Sinderen, M.J. (2005) An Architectural Model for Component Groupware. In: *11th International Workshop on groupware CRIWG 2005*, 25-29 Sep 2005, Porto de Galinhas. pp. 105-120. Lecture Notes in Computer Science 3706. Springer. ISSN 0302-9743 ISBN 978-3-540-29110-7

Guizzardi, G. and Ferreira Pires, L. and van Sinderen, M.J. (2005) An ontology-based approach for evaluating the domain appropriateness and comprehensibility appropriateness of modeling languages. In: *Model Driven Engineering Languages and Systems, 8th Int. Conference, MoDELS 2005*, 2-7 Oct 2005, Montego Bay, Jamaica. pp. 691-705. Lecture Notes in Computer Science 3713. Springer. ISSN 0302-9743 ISBN 3-540-29010-9

Guizzardi, G. and Ferreira Pires L. and van Sinderen, M.J. Ontology-Based Evaluation and Design of Domain-Specific Visual Modeling Languages. In: *Proceedings of the 14th International Conference on Information Systems Development*, Karlstad, Sweden, 2005.

2004

Andrade Almeida, J.P. and Dijkman, R.M. and van Sinderen, M.J. and Ferreira Pires, L. (2004) Platform-independent modelling in MDA: supporting abstract platforms. In: *Proceedings of Model-Driven Architecture: Foundations and Applications 2004*, 10-11 Jul 2004, Linköping University, Sweden. pp. 219-233. Research Center for International Software Engineering, Linköping University.

Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. Costs and Benefits of Multiple Levels of Models in MDA Development. In: *Proceedings of the 2nd European Workshop on Model-Driven Architecture with Emphasis on Methodologies and Transformations*, Technical Report No. 17-04, Computing Laboratory, University of Kent, Canterbury, UK, Sept. 2004, pp. 12-20.

Andrade Almeida, J.P. and van Sinderen, M.J. and Ferreira Pires, L. (2004) The role of the RM-ODP computational viewpoint concepts in the MDA approach. In: *1st European Workshop on Model-Driven Architecture with Emphasis on Industrial Applications (MDA-IA 2004)*, 17-18 March 2004, Enschede, The Netherlands. pp. 43-51. CTIT Technical Report TR-CTIT-04-12. Centre for Telematics and Information Technology, University of Twente. ISSN 1381-3625

Andrade Almeida, J.P. and van Sinderen, M.J. and Ferreira Pires, L. (2004) The role of RM-ODP computational viewpoint concepts in the MDA approach. In: *Workshop on ODP for Enterprise Computing, WODPEC 2004*, 20 Sep 2004, Monterey, CA, USA. pp. 28-35. ISBN 84-688-8046-9

Andrade Almeida, J.P. and van Sinderen, M.J. and Ferreira Pires, L. and Wegdam, M. (2004) Platform-independent dynamic reconfiguration of distributed applications. In: *IEEE 10th International Workshop on Future Trends in Distributed Computing Systems - FTDCS 2004*, 26-28 May 2004, Suzhou, China. pp. 286-291. IEEE Computer Society Press. ISBN 0-7695-2118-5

Bonino da Silva Santos, L.O. and Guizzardi-Silva Souza, R. and van Sinderen, M.J. and Ferreira Pires, L. and Wagner, G. and Pereira Filho, J.G. and Konstantas, D. (2004) Context-Aware Support for Communities of Practice. In: *Third International Semantic Web Conference, ISWC 2004*, 7-11 Nov 2004, Hiroshima, Japan.

Dijkman, R.M. and Quartel, D.A.C. and Ferreira Pires, L. and van Sinderen, M.J. (2004) A rigorous approach to relate enterprise and computational viewpoints. In: *Proceedings of the Eighth IEEE Enterprise Distributed Object Conference (EDOC) EDOC 2004* (2004,

september 20 / 2004, september 24). pp. 187-200. Los Alamitos, CA, USA IEEE CS Press
ISBN: 0-7695-2214-9

Dockhorn Costa, P. and Ferreira Pires, L. and van Sinderen, M.J. and Pereira Filho, J.G.
(2004) Towards a service platform for mobile context-aware applications. In: *First
International Workshop on Ubiquitous Computing (IWUC 2004)*, Apr 2004, Portugal. pp. 48-
62. INSTICC Press. ISBN 972-8865-06-6

Dockhorn Costa, P. and Ferreira Pires, L. and van Sinderen, M.J. and Rios, D. (2004)
Services Platforms for Context-Aware Applications. In: *European Symposium on Ambient
Intelligence (EUSAI)*, 8-10 Nov 2004, Eindhoven, the Netherlands. pp. 363-367. Lecture
Notes in Computer Science 3295. Springer Verlag. ISSN 0302-9743 ISBN 3-540-23721-6

Ferreira Pires, L. and van Sinderen, M.J. and Guareis de Farias, C.R. and Andrade Almeida,
J.P. (2004) Use of models and modelling techniques for service development. In: *Third IFIP
Conference on e-Commerce, e-Business and e-Government (I3E 2003)*, 21-24 Sep 2003,
Guarujá, São Paulo, Brazil. pp. 441-456. Kluwer Academic Publishers. ISBN 1-4020-7795-5

Gavras, A. and Belaunde, M. and Ferreira Pires, L. and Andrade Almeida, J.P. (2004)
Towards an MDA-based development methodology. In: *Software Architecture: First
European Workshop (EWSA2004)*, 21-22 May 2004, St Andrews. pp. 230-240. Lecture Notes
in Computer Science 3047. Springer Verlag. ISSN 0302-9743 ISBN 978-3-540-22000-8

Gavras, A. and Belaunde, M. and Ferreira Pires, L. and Andrade Almeida, J.P. (2004)
Towards an MDA-based development methodology for distributed applications. In: *1st
European Workshop on Model-Driven Architecture with Emphasis on Industrial Applications
(MDA-IA 2004)*, 17-18 Mar 2004, Enschede, The Netherlands. pp. 71-81. Centre for
Telematics and Information Technology, University of Twente. ISSN 1381-3625

Gavras A. and Ferreira Pires, L. and Andrade Almeida, J.P. (2004) Platform considerations
with the model-driven architecture. In: *Proceedings of TIMNA 2004, TIMNA 2004,
Telecommunications Information Multi-Management Networking Architecture*, Beijing,
China, 28-29 October 2004.

2003

Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. (2003) Web services and
seamless interoperability. In: *First European Workshop on Object-Oriented and Web
Services (ECOOP 2003)*, 21 Jul 2003, Darmstadt, Germany. pp. 4-9. IBM Research Report
series RA220 Computer Science. IBM.

Andrade Almeida, J.P. and van Sinderen, M.J. and Ferreira Pires, L. and Quartel, D.A.C.
(2003) The role of the service concept in model-driven applications development. In:
International Middleware Conference, Workshop Proceedings, 16-20 Jun 2003, Rio de
Janeiro, Brazil. pp. 288-296. PUC. ISBN 85-87926-03-9

Andrade Almeida, J.P. and van Sinderen, M.J. and Ferreira Pires, L. and Quartel, D.A.C.
(2003) A systematic approach to platform-independent design based on the service concept.
In: *Seventh IEEE International Conference on Enterprise Distributed Object Computing
(EDOC 2003)*, 16-19 Sep 2003, Brisbane, Australia. pp. 112-123. IEEE Computer Society
Press. ISBN 0-7695-1994-6

Andrade Almeida, J.P. and van Sinderen, M.J. and Quartel, D.A.C. and Ferreira Pires, L. (2003) Interaction systems design and the protocol- and middleware-centred paradigms in distributed application development. In: *ECOOP 2003 Workshop on Communication Abstractions for Distributed Systems*, 22 Jul 2003, Darmstadt, Germany.

Andrade Almeida, J.P. and van Sinderen, M.J. and Quartel, D.A.C. and Ferreira Pires, L. (2003) Handling QoS in MDA: a discussion on availability and dynamic reconfiguration. In: *Workshop on Model Driven Architecture: Foundations and Application (MDAFA) 2003*, 26-27 Jun 2003, Enschede, The Netherlands. pp. 91-96. CTIT Technical Report TR-CTIT-03-27. Centre for Telematics and Information Technology, University of Twente. ISSN 1381-3625

Dijkman, R.M. and Quartel, D.A.C. and Ferreira Pires, L. and van Sinderen, M.J. (2003) An approach to relate viewpoints and modeling languages. In: *Seventh IEEE International Conference on Enterprise Distributed Object Computing (EDOC 2003)*, 16-19 Sept 2003, Brisbane, Australia. pp. 14-27. IEEE Computer Society. ISBN 0-7695-1994-6

Rios, D. and Dockhorn Costa, P. and Guizzardi, G. and Ferreira Pires, L. and Goncalves Filho, J. (2003) Using ontologies for modeling context-aware services platforms. In: *OOPSLA 2003 Workshop on Ontologies to Complement Software Architectures*, 26 Oct 2003, Anaheim, CA, USA.

2002

Joosten, S. and Ferreira Pires, L. (2002) Tools en technieken. *Informatie*. November 2002. (in Dutch)

Morales J.M. and Ferreira Pires L. and vanSinderen M.J. (2002) Model driven geo-information systems development. In: *6th Int. Enterprise Distributed Object Computing (EDOC 2002)*, Lausanne, Switzerland (2002-09-17/2002-09-20). pp. 155-166. IEEE, 2002, ISBN: 0-7695-1742-0

Guizzardi G. and Ferreira Pires L. and van Sinderen M.J. (2002) On the role of domain ontologies in the design of domain-specific visual modeling languages . In *2nd OOPSLA Workshop on Domain-Specific Modeling Languages*, Seattle, WA, USA (2002-10-26/2002-11-01). pp. 25-38.

Dijkman R.M. and Quartel D.A.C. and Ferreira Pires L. and van Sinderen M.J. (2002) Semantic verification of behavior conformance. In: *OOPSLA Workshop on Behavioral Semantics – Serving the Customer*, Seattle, WA, USA (2002-11-04/2002-11-08). pp. 43-54.

2001

Dijkman R.M. and Ferreira Pires L. and Joosten S. (2001) Calculating with concepts: a technique for the development of business process support. In: *Practical UML-based Rigorous Development Methods - Countering or Integrating the eXtremists (pUML 2001)*, Bonn, Germany (2001/2001. GI Lecture Notes 17, ISBN: 3-88579-335-0, pp. 87-98.

Guareis de Farias C.R. and Ferreira Pires L. and Sinderen M.J. van and Quartel D.A.C. (2001) A combined component-based approach for the design of distributed software systems. In: *8th*

IEEE Workshop on Future Trends of Distributed Computing Systems (FTDCS 2001), Bologna, Italy (2001/2001). pp. 2-8. IEEE Computer Society, ISBN: 0769513840

Guareis de Farias C.R. and van Sinderen M.J. and Ferreira Pires L. and Quartel D.A.C. (2001) A combined approach for component-based software design. In: *3rd International Symposium on Distributed Objects and Applications (DOA'01)*, Rome, Italy. pp. 1-8. ISBN: 888665811-7

Guareis de Farias C.R. and Ferreira Pires L. and Lopes de Souza W. and Moron C.M. (2001) Specification and validation of a real-time parallel kernel. In: *9th International Symposium on Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS 2001)*. pp. 7-14. Society for Computer Simulation, ISBN: 0-7695-1315-8

Andrade Almeida J.P. and Wegdam M. and Ferreira Pires L. and van Sinderen M.J. (2001) An approach to dynamic reconfiguration of distributed systems based on object-middleware. In: *Proceeding of the 19th Brazilian Symposium on Computer Networks (SBRC 2001)*, Florianópolis, Brazil. pp. 1-17.

Ferreira Pires L. and Guareis de Farias C.R. (2001) AMBER: uma linguagem para o desenvolvimento de sistemas distribuídos. In: *Proceeding of the 19th Brazilian Symposium on Computer Networks (SBRC 2001)*. pp. 82-97. ISBN 681-31-061-68

2000-1988

Bergmans, L.M.J. and van Halteren, A. T. and Ferreira Pires, L. and van Sinderen M.J. and Aksit M. (2000) A QoS-Control Architecture for Object Middleware. In: *7th International Workshop on Interactive Distributed Multimedia Systems and Telecommunication Services (IDMS'2000)*. pp. 117-131. Lecture Notes in Computer Science 1905, Springer, ISBN 3-540-41130-5

Guareis de Farias, C.R. and Ferreira Pires, L. and van Sinderen, M.J. (2000) A component-based groupware development methodology. In: *4th International Enterprise Distributed Object Computing Conference (EDOC 2000)*, Makuhari, Japan. pp. 204-213. IEEE Computer Society, ISBN 07-6950-8650

Guareis de Farias, C.R. and Ferreira Pires, L. and van Sinderen, M.J. (2000) A conceptual model for the development of CSCW systems. In: *4th International Conference on the Design of Cooperative Systems (COOP 2000)*, Sophia Antipolis, France. pp. 189-204. IOS Press, ISBN 1586030426

Guareis de Farias, C.R. and van Sinderen, M.J. and Ferreira Pires, L. (2000) A systematic approach for component-based software development. In: *7th European Concurrent Engineering Conference 2000 (ECEC 2000) - Concurrent Engineering in the Framework of IT Convergence*, Leicester, U.K. pp. 127-131. Society for Computer Simulation, ISBN 1-565552024

de Barros Barbosa, C. and Ferreira Pires, L. (1999) Developing frameworks for protocol implementation. In: *IEEE International Conference on Software in Telecommunication (SOFTCOM'99)*. pp. 143-151. IEEE Computer Society, 1999, ISBN: 953-6114-32-1

Quartel, D.A.C. and van Sinderen, M.J. and Ferreira Pires, L. (1999) Service creation: a model-based approach. In: *7th IEEE Workshop on Future Trends of Distributed Computing*

Systems (FTDCS'99), Cape Town, South Africa, pp. 102-110. IEEE Computer Society, ISBN 0-7695-0468-X

de Barros Barbosa, C. and Ferreira Pires, L. and van Sinderen, M.J. (1998) Frameworks for Protocol Implementation. In: *6th Brazilian Symposium on Computer Networks (SBRC'98)*, Rio de Janeiro, Brazil. pp. 385-403.

van Sinderen, M.J. and Ferreira Pires, L. (1998) The application of TINA in the MESH project. In: *Interactive Distributed Multimedia Systems and Telecommunication Services (IDMS'98)*. pp. 77-82. Springer, ISBN 3-540-64955-7

van Sinderen, M.J. and Ferreira Pires, L. (1997) Protocols versus objects: can models for telecommunications and distributed processing coexist? In: *6th IEEE Workshop on Future Trends of Distributed Computing Systems (FTDCS'98)*. pp. 8-13. IEEE Computer Society, ISBN 0-8186-8153-5

Franken, H.M. and de Weger, M.K. and Quartel, D.A.C. and Ferreira Pires, L. (1996) On engineering support for business process modelling and redesign. In: *IFIP International Workshop on Modelling Techniques and Business Process Re-engineering and Benchmarking*. Bordeaux, France. pp. 81-98. Chapman and Hall.

van Sinderen, M.J. and Chimento, P.F. and Ferreira Pires, L. (1996) Design of a shared whiteboard component for multimedia conferencing. In: *Protocols for Multimedia Systems (PROMS 1996)*. pp. 1-15. ETSI Telecommunication, ISBN 84-605-5621-2

Terpstra, R. and Ferreira Pires, L. and Heerink, A.W. and Tretmans, G.J. (1996) Testing theory in practice: a simple experiment. In: *COST 247 International Workshop on Applied Formal Methods in System Design*. pp. 168-183. ISBN 86-435-0155-7

Quartel, D.A.C. and Ferreira Pires, L. and Franken, H.M. and Vissers, C.A. (1995) An engineering approach towards action refinement. In: *Proceedings of the Fifth IEEE Computer Society Workshop on Future Trends of Distributed Computing Systems*, pages 266-273, Los Alamitos, California, IEEE Computer Society Press.

van Sinderen, M. and Ferreira Pires, L. and Vissers, C.A. (1994) Design concepts for open distributed systems. In *Open Distributed Processing II*. pp. 369-371. North-Holland.

Ferreira Pires, L. and van Sinderen, M. and Vissers, C.A. (1993) Advanced design concepts for distributed systems development. In: *Proceedings of the Fourth Workshop on Future Trends of Distributed Computing Systems*. pp. 419-425, IEEE Computer Society Press, Los Alamitos, USA.

Ferreira Pires, L. and Vissers, C.A. and van Sinderen, M.J. (1993) Advances in architectural concepts to support distributed systems design. In *11o Simpósio Brasileiro de Redes de Computadores. Tutoriais e Minicursos*, Campinas, Brazil, 1993. Departamento de Engenharia de Computação. Faculdade de Engenharia Elétrica. Universidade Estadual de Campinas.

Vissers, CA. and van Sinderen, M. and Ferreira Pires, L. (1993) What makes industries believe in formal methods. In *Protocol Specification, Testing, and Verification, XIII*, pp. 3-26. Elsevier Science Publishers B.V. (North-Holland), the Netherlands.

Ferreira Pires, L. and van Sinderen, M. and Vissers, C.A. (1992) On the use of pre-defined implementation constructs in distributed systems design. In *Proceedings of the Third Workshop on Future Trends of Distributed Computing Systems*, pp. 114-120, Los Alamitos, California, IEEE Computer Society Press.

Ferreira Pires, L. and Lopes de Souza, W. (1991) Step-wise refinement design example using LOTOS. In: *Formal Description Techniques, III*. pp 255-262. Elsevier Science Publisher B.V. (North-Holland), the Netherlands.

Ferreira Pires, L. and Schot, J. (1991) Systematic design of a network gateway using FDT LOTOS. In: *Proceedings of the Tenth Annual Joint Conference of the IEEE Computer and Communications Societies, INFOCOM '91*, 7-11 April 1991, Miami, USA. pp. 1344-1352. IEEE Computer Society. ISBN 0-87942-694-2

Lopes de Souza, W. and Ferreira Pires, L. (1991) Projetos de sistemas através de refinamentos sucessivos utilizando a TDF LOTOS. In *Anais 9o. Simpósio Brasileiro de Redes de Computadores*, p. 295-312, Brazil

van Sinderen, M.J. and Ferreira Pires, L. (1991) FDT-based Protocol Design. In: *Computer Networks '91. Proceedings of the Conference*, 26-28 Jun 1991, Wroclaw, Poland. pp. 161-169. Wydawnictwo Politechniki Wroclawskiej.

Ferreira Pires, L. and Vissers C.A. (1990) Overview of the Lotosphere design methodology. In *ESPRIT 1990, Conference Proceedings*, pp. 371-387. Kluwer Academic Publishers, the Netherlands.

Vissers, C.A. and van de Lagemaat, J. and Ferreira Pires, L. (1990) Formal description techniques for distributed computing systems: the challenges for the 1990's. In: *Proceedings of Second IEEE Workshop on Future Trends of Distributed Computing Systems*, 30 Sep - 2 Oct 1990, Cairo, Egypt. pp. 465-471. IEEE Computer Society. ISBN 0 8186 2088 9

Ferreira Pires, L. (1989) On the use of LOTOS to support the design of a connection-oriented internetting protocol. In *Esprit'89 Conference Proceedings*, pp. 957-970, Kluwer Academic Publishers, Dordrecht, the Netherlands

Bogaards, K. and Ferreira Pires, L. and Pras, A. and Schot, J. (1988) The PANGLOSS method. In: *Esprit'88: Putting the Technology to Use*. Part 2, 14-17 Nov 1988, Brussels. pp. 1175-1193. Elsevier (North-Holland). ISBN 0 444 87145 4

4.3 PhD thesis

Ferreira Pires, L. (1994) *Architectural notes: a framework for distributed systems development*. CTIT Ph. D.-thesis series No. 94-01 (with summary in Dutch). University of Twente, Enschede, the Netherlands. 255 pages. ISBN 90-9007461-9

4.4 Master thesis

Ferreira Pires, L. (1989) *Projeto de protocolos de inter-rede com o uso da técnica de especificação formal LOTOS - especificações de sistemas intermediários com e sem conexão*.

Master Thesis (in Portuguese). Escola Politécnica da Universidade de São Paulo. São Paulo, Brazil.

4.5 Book chapters

Dockhorn Costa, P. and Ferreira Pires, L. and van Sinderen, M.J. (2008) Concepts and architectures for mobile context-aware applications. In: *Handbook of research on mobile multimedia*. Information Science Reference, Hershey, New York, pp. 783-803. ISBN 978-1-60566-046-2

van Sinderen, M.J. and Andrade Almeida, J.P. and Ferreira Pires, L. and Quartel, D.A.C. (2006) Designing enterprise applications using model-driven service-oriented architectures. In: *Enterprise service computing: from concept to deployment*. Idea Group Publishing, Hershey, pp. 132-155. ISBN 1-59904-180-2

Dockhorn Costa, P. and Ferreira Pires, L. and van Sinderen, M.J. (2006) Architectural support for mobile context-aware applications. In: *Handbook of research on mobile multimedia*. Idea Group Publishing, Hershey, pp. 456-475. ISBN 1-59140-866-0

Sinderen M. J. van and Ferreira Pires L. (1997) Netwerkarchitecturen architectuurconcepten en hun toepassing. In *Handboek Telematica*. pp. 3-15. Samsom BedrijfsInformatie.

Ferreira Pires L. and Schot. J. (1995) Design and implementation strategies. In *LOTOSphere: software development with LOTOS*. pp. 59-85. Kluwer Academic Publishers, the Netherlands.

Vissers, C.A. and Ferreira Pires, L., and van de Lagemaat, J. (1995) Lotosphere, an attempt towards a design culture. In: *LOTOSphere: software development with LOTOS*. pp. 3-28. Kluwer Academic Publishers, the Netherlands.

Ferreira Pires, L. (1993) Chapter 3: Introduction to LOTOS. In *Using Formal Description Techniques - An introduction to Estelle, LOTOS and SDL*. John Wiley & Sons. Great-Britain. ISBN 0-471-93455-0

4.6 Book editing

Andrade Almeida, J.P. and Ferreira Pires, L. and van Sinderen, M.J. (eds.) (2006) *Proceedings of the European Workshop on Milestones, Models and Mappings for Model-Driven Architecture (3M4MDA)*. CTIT Workshop Proceedings Series WP06-02 Centre for Telematics and Information Technology, University of Twente, Enschede. ISSN 1574-0846

Ferreira Pires, L. and Hammoudi, S. (eds.) (2006) *Proceedings of the 2nd International Workshop on Model-Driven Enterprise Information Systems MDEIS 2006*, 23 May 2006, Paphos, Cyprus. INSTICC. ISBN 972-8865-56-6

Bevinakoppa, S. and Ferreira Pires, L. and Hammoudi, S. (eds.) (2005) *Proceedings of the Joint Workshop on Web Services and Model-Driven Enterprise Information Services, WSMDEIS 2005*. Miami. INSTICC.

Sinderen M.J van and Ferreira Pires L. (eds.) (2004) *1st European Workshop on Model-Driven Architecture with Emphasis on Industrial Applications (MDA-IA 2004)*, 17-18 Mar

5 Indications of reputation

5.1 Conference committees (selection)

- Workshops and Tutorials chair of the Fifth European Conference on Model-Driven Architecture Foundations and Applications, University of Twente, Enschede, The Netherlands, 23-26 June 2009.
- Co-chair of the International Workshop on Future Trends of Model-Driven Development (FTMDD, in conjunction with the International Conference on Enterprise Information Systems) in 2009 and 2010.
- Co-chair of the International Workshop on Model-Driven Enterprise Information Systems (MDEIS, in conjunction with the International Conference on Enterprise Information Systems) in 2005, 2006, 2007 and 2008.
- Programme Committee member of the IEEE International EDOC Conference from 2005 to 2012.
- Programme Committee member of the International Conference on Web Information Systems and Technology (WEBIST) from 2005 to 2012.
- Programme Committee member of the International Conference on Enterprise Information Systems (ICEIS) in 2011 and 2012.

5.2 PhD committees

- Luiz Olavo Bonino da Silva Santos, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente, December 8, 2011 (assistant supervisor).
- Odorico von Susani, Department of Information Systems, Geneva School of Business Administration, Univ. of Applied Sciences, November 18, 2011 (defense committee member).
- Laura Daniele, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente, June 1, 2011 (assistant supervisor).
- Eduardo Gonçalves da Silva, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente, May 11, 2011 (assistant supervisor).
- Pascal Dürr, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente, June 26, 2008 (defense committee member).
- Patrícia Dockhorn Costa, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente, December 19, 2007 (assistant supervisor).
- João Paulo Andrade Almeida, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente, June 1, 2006 (assistant supervisor).
- Giancarlo Guizzardi, Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente, October 27, 2005 (assistant supervisor).

- Denivaldo Lopes, Université de Nantes, July 11, 2005 (defense committee member).
- Javier Morales, Faculty of Computer Science, University of Twente, March 26, 2004 (assistant supervisor).
- Aart van Halteren, Faculty of Computer Science, University of Twente, January 9, 2003 (assistant supervisor).
- Ciro de Barros Barbosa, Faculty of Computer Science, University of Twente, February 9, 2001 (assistant supervisor).
- Dick Quartel, of Computer Science, University of Twente, February 19, 1998 (assistant supervisor).
- Mark de Weger, of Computer Science, University of Twente, January 22, 1998 (assistant supervisor).
- Joost-Pieter Katoen, of Computer Science, University of Twente, April 18, 1996 (defense committee member).
- Andras Olah, Faculty of Electrical Engineering, University of Twente, August 28, 1997 (defense committee member).

5.3 Referee work

Papers refereed for the following conferences and periodicals (amongst others): EDOC 2011, ECMFA 2011, ICEIS 2011, IEEE Transactions on Network and Service Management (2011), Computer Standards & Interfaces Special Issue on RM-ODP (2011), Concurrency and Computation: Practice and Experience (2011), ICT.Open 2011, ITNG 2011, RuleML 2011, VORTE 2011, WEBIST 2011, EDOC 2010, ITNG 2010, Information and Software Technology (2010), TWOMDE 2010, SMC 2010, VORTE 2010, EDOC 2009, ECMDA 2009, SMC 2009, Communications of the ACM (2009), SciCo 2009, JSS 2008, Computer Magazine (2008), EDOC 2008, ECIS2008, IEEE SMC 2008, M-ADAP 2007, SoSyM "Theme Issue on Metamodeling", EUNICE 2007, EDOC 2007, JNSM Special Issue on Peer-to-Peer Technologies in Network and Service Management, IASTED Telematics 2007, EDOC 2006, SP&E 2006, ECMDA 2006, CEC-EEE 2006, FASE 2006, IJCIS 2006, IJCIS 2005, GridsNet 2005, ECMDA 2005, Infocom 2005, iiWAS 2005, iiWAS 2004, MDA-IA 2004, ISF 2004, IntellCom 2004, EDOC 2004, EWMDA 2004, EDOC 2003, Node 2003, WTC 2002, MTW 2002, IDMS/PROMS 2002, EurAsia2002, EUNICE 2002, M3W 2001, Middleware 98, Middleware 2000, PROMSMmNet'97, FASE 97, ICODP 93, ICODP 94, ICODP 97, FORTE 89, FORTE 90, FORTE 91, FORTE 92, FORTE 93, FORTE 94, PSTV XII (1992), PSTV XIII (1993), PSTV XIV (1994), CAV 93, INFOCOM 92, AMAST 91, Computer Networks and ISDN Systems, 1991, COMNET 90.

He has been a member of the SION ('Stiching Informatica Onderzoek Nederland') committee that evaluated and granted project proposals in the area of computer science in the Netherlands (1996-1997). He also acted as reviewer for two project proposals of the IWT ('Instituut voor de Aanmoediging van Innovatie door Wetenschap en Technologie in Vlaanderen', Belgian institute for scientific research and technology) in 2001 and 2005, and for two project proposals for the Estonian Science Foundation (ETF) in 2008.

6 Professional experience

6.1 Employment at the University of Twente

6.1.1 Research activities

Research activities have been carried out in the scope of the Centre for Telematics and Information Technology (CTIT), University of Twente.

Participation in projects (selection)

- IST SPICE (2005-2008, partly funded by the Commission of the European Communities): contribution to the development of the SPICE Automatic Composition Engine, which is the component of the SPICE architecture responsible for performing runtime service composition.
- AWARENESS (2004-2008, partly funded by the Dutch Ministry of Economic Affairs): contribution to the development of application infrastructures for context-aware mobile applications.
- A-MUSE (2004-2008, partly funded by the Dutch Ministry of Economic Affairs): contribution to the development of models and techniques for supporting the development of context-aware mobile applications and their infrastructures.
- IST MODA-TEL (2002-2004, partly funded by the Commission of the European Communities): contribution to the development of guidelines, methodologies and tools for the application of model-driven architecture principles in telecommunications information management and telecommunication component based software construction.
- WASP (2002-2004, Dutch National project): contribution to the application development framework for web services-based mobile applications.
- AMIDST (1998-2002, Dutch National project): contribution to the development and application of component-based and agent-based middleware technology for designing and managing telematics services.
- DAMD (1996-1997, funded by CNPq, Brazil): participation as external consultant; project aims at the development of models and languages for distributed multimedia applications
- Mesh (1996-1997, partly funded by the Dutch Ministry of Economic Affairs): contribution to the development of a flexible architecture for distributed multimedia applications based on forthcoming standards, such as the TINA standards and CORBA
- Testbed (1996-1997, partly funded by the Dutch Ministry of Economic Affairs): participation in the acquisition of the project; contribution to the design model used to model business processes and to the refinement operations necessary to develop improved business processes
- Platinum (1995-1996, partly funded by the Dutch Ministry of Economic Affairs): contribution to the development of a design methodology for applications based on multimedia and high-speed networking technologies, and the application of this methodology in the development a middleware infra-structure for pilot-applications.

- RACE II MONET (1991, partly funded by the Commission of the European Communities): participation in the acquisition and elaboration of project proposal
- RACE II Cassiopeia (1993-1994, partly funded by the Commission of the European Communities): research on design methods and techniques for modelling and designing Integrated Service Engineering components
- ESPRIT II Lotosphere (1989-1992, partly funded by the Commission of the European Communities): contribution to the development of a design methodology, research on design structuring, design transformations, and implementations based on formal specifications
- COMET ALICE (1989, partly funded by the Commission of the European Communities): development of modules for a course on the FDT LOTOS
- ESPRIT I Pangloss project (1988-1989, partly funded by the Commission of the European Communities): contribution to the development of a design method based on the Formal Description Technique (FDT) LOTOS, and to the design of a networking gateway

Own PhD work

He worked from 1992 to 1994 on his PhD thesis. This thesis identifies the entity and behaviour domains for distributed systems design, and concentrates on techniques and methods for defining, structuring and refining behaviours of functional entities in order to support design steps of a global design process. Results of this thesis are applicable, amongst others, to the modelling and refinement of application processes (for example, business and production processes), to the development of technical protocol systems, and to the support of distributed systems implementation.

International visits

- Tokyo Institute of Technology (TITECH), Tokyo, Japan (January to March 1992) as assistant of Prof. Chris Vissers in his sabbatical leave.

6.1.2 Educational activities

- Guidance of Master students and external trainees (average of five/six per year, >70 Master students, >).
- Currently lecturer of the courses on 'Programming 1', 'Programming 2', 'Java Middleware Technologies', 'Service-oriented architecture with Web services', 'Model-Driven Engineering' and 'Software Management'.
- Study trip to Brazil (October 2003) for students of the Faculty of Computer Science, as accompanying lecturer. This study trip visited many universities and companies in São Paulo, Belo Horizonte and Rio de Janeiro.
- Lecturer of the courses on 'Protocol engineering' (2001-2007) 'Protocol implementation' (1994-2001), 'Protocol design' (1995-2001) and 'The Design of Telematics Systems' (2001-2004).
- Contributed to the courses on 'Advanced programming' (1988-1991) and 'Java programming' (1999) by guiding groups of the practical exercises.

- Lecturer of a post-graduate course on Middleware for PAO ('Postacademisch Onderwijs') in 2000.

6.1.3 Management tasks (most recent)

- Vice-chair of the Examination Board of the Computer Science programmes (Computer Science Bachelor and Master programmes, Telematics Master programme and Human-Machine Interaction Master programme, 2011-now).
- Elected member of the Participation Council of the University of Twente, the Netherlands (2006–2008).
- Elected member of the Participation Council of the Faculty of Electrical Engineering, Mathematics and Computer Science, University of Twente, the Netherlands (2004-2006).
- Member of the Project Management Committee of the A-MUSE project, as Workpackage 3 leader (2004-2006).
- Member of the Project Coordination Committee of the AWARENESS project, as representative of the University of Twente (2004 - until now).
- Elected member of the Participation Council of the Faculty of Computer Science, University of Twente, the Netherlands (1998-2002).
- Chair of the Programme Committee of the Telematics Education Programme (1999-2003), University of Twente.

6.1.4 Professional training

- Management training, Eva Wiltink BV, Nijmegen, the Netherlands, in 2006
Management training sponsored by the University of Twente.
- Professional training for members of Participation Councils (during both 1998-2002 and 2004-2006 terms in the Faculty Council).
- Short leadership training (negotiation, 'bad news' meetings, etc.) and short education support trainings (presentation, course development and organization, material preparation, guidance of Master and PhD students), all sponsored by the University of Twente.

6.2 Employment at ITAUTEC

As engineer at ITAUTEC Informática S.A. (a Brazilian company in the area of informatics), he worked in the development of front-end communication processors, which are systems that can be connected to computer mainframes in order to provide remote communication facilities.

Activities

- Development of a simulator for the IBM 360 I/O Channel
- Development of a hardware interface for the IBM 360 I/O Channel and adaptation of the software to use this interface
- Development of testing systems for the factory to test systems in the production line and for the technical assistance teams to trace faults in installed systems

- Development of a front-end communication processor (hardware, firmware and software development) based on the Motorola 68000 microprocessor
- Development of a front-end processor to operate in IBM SNA environment.

6.3 During university study

- In 1983 he worked on his graduation thesis, which was combined with a training period at 'Instituto de Pesquisas Espaciais (INPE)', which is a Brazilian institute for spatial research. His graduation thesis consisted of modelling and simulating a Network Communication Multiprocessor using the GASP IV simulation package, and comparing the results with an analytic model.
- As trainee at INPE in 1982, he studied data communication concepts, queueing theory and simulation. He worked with the FORTRAN simulation package GASP IV on a B6800 mainframe computer.
- He gave courses on Basic Electronics, Calculus and Telecommunication Basic Concepts at 'Instituto de Proteção ao Vôo (IPV)', São José dos Campos, SP, Brazil.