

Curriculum Vitæ*

Michel Wermelinger

12th January 2010

1 Higher Education

1.1 Degrees

1985–1990 *Licenciatura* (5-year degree) in Computing, New University of Lisbon, Portugal

1991–1995 MSc in Computing [72] (part-time), New University of Lisbon

1996–1999 PhD in Computing [71], New University of Lisbon

1.2 Courses

11/04–1/05 S195 — Introduction to the Human Genome, The Open University

2/05–10/05 TA225 — The Technology of Music, The Open University

2/06–10/06 A214 — Understanding Music: Elements, Techniques and Styles, The Open University

2/07–4/07 A179 — Start Listening to Music, The Open University

5/09–7/09 T151 — Digital worlds: designing games, creating alternative realities, The Open University

1.3 Awards

1991 National Engineering Award (given to the best graduating student of each engineering school), Order of Engineers, Portugal

2 Appointments and experience

2.1 In academe

2/06– Associate Lecturer for M801 — MSc Research Project and Dissertation (part-time), The Open University

9/04– Senior Lecturer, Computing Department, The Open University

12/99–2/05 Assistant Professor, Computing Department, New University of Lisbon. Sabbatical leave in a non-exclusivity scheme, September 2004 to February 2005.

*The electronic version of this document is available from <http://michel.wermelinger.ws> and contains web links.

- 1/92–12/99 Assistant Lecturer, Computing Department, New University of Lisbon
- 12/88-9/90 Teaching Assistant (part-time), Computing Department, New University of Lisbon

2.2 In companies

- 3/01–2/03 Consultant (full-time, under a protocol with New University of Lisbon), ATX Software SA
- 6/90–9/92 Founding partner and manager (part-time), Heurística Lda
- 3/87–5/87 Computer consultant (part-time), Biorecicle

3 Contributions to teaching and student support

3.1 Organisational responsibilities

3.1.1 Post-graduate courses

- 1/08 – Course team chair, M882 — Managing the Software Enterprise (15 points), The Open University
- 5/06 – 12/07 Member of the course presentation team: assessment co-author and marking team leader, M882
- 9/04 – 4/06 Member of the course production team: critical reader and software developer, M882
- 6/06 Member of the Examination and Award Board, *Software Engineering* (M880, 30 points), The Open University
- 2003–04 Lecturer, Program Analysis and Processing, MSc in Computing, New University of Lisbon
- 2003 – 04 Co-lecturer, Advanced Topics in Programming Languages and Models, MSc in Computing New University of Lisbon
- 3/00 – 4/00 Co-lecturer, *Software Architecture*, Post-Graduation in Management of Information Systems and Technologies, COCITE

3.1.2 Undergraduate courses

- 10/04 – 5/08 Member of the course production team: co-author, *Developing Distributed Concurrent Systems* (M362, level 3, 30 points), The Open University
- 2003 – 04 Course team chair, Programming Ia, New University of Lisbon
- 2002 – 03 Lecturer, Compilation, New University of Lisbon
- 2000 – 01 Lecturer, Theory of Computation, New University of Lisbon
- 1999 – 00 Course team chair, Introduction to Computers and Programming, New University of Lisbon
- 2002 – 03 Programming Languages 2, Portuguese Air Force Academy
- 1994 – 95 Advanced Programming 1 and 2, Portuguese Air Force Academy

3.1.3 Other courses

- 4/99 Co-author and co-presenter, “Introduction to Category Theory, CommUnity, and Software Architectures”, Oblog SA
- 11/01 Co-author and presenter *Theory and Practice of Software Architectures*, tutorial at the 16th IEEE Intl. Conf. on Automated Software Engineering

3.2 Contributions to teaching materials and methods

- 2007 – 08 Author of 3 units (ca. 140 pages) and co-author of the first presentation’s assessment, M362
- 2006 – Co-author of assessment, M882
- 2006 Author of software simulation guide, M882

3.3 Contributions to staff and student support and associated activities

- 2006 – Specialist advisor to 13 students, M801 — MSc Research Project and Dissertation
- 2005 – Third-party monitor of 4 PhD students
- 4/06 *Multimedia, not multiple media* (talk), Teaching and Learning Conference, The Open University
- 1/06 *Multimedia, not multiple media* (poster), Curriculum Conference, The Open University
- 2/02 *Problem and Project Based Learning* (talk), Computing Department, New University of Lisbon

4 Contributions to administration and management

4.1 At The Open University

- 5/05 – Equipment budget manager, Computing Department
- 1/08 – 12/08 Director of research, Computing Department
- 10/07 – 12/07 Deputy director of research, Computing Department
- 1/06 – 7/07 Member, Computing Post-Graduate Programme Committee
- 10/05 – 11/06 Representative of the Mathematics and Computing Faculty, Technology Faculty Board
- 3/05 Member of the selection panel for a senior lectureship in Computing

4.2 At New University of Lisbon

- 2003–4 Coordinator of the department’s participation in the Open Days of the Faculty of Sciences and Technology
- 2/00–7/01 Member, Library Council of the Faculty of Sciences and Technology
- 1/01 Co-organiser, 3rd PhD Seminar

- 3/95 – 6/00 Creator and organiser, “Forum DI” computer science seminars
- 1996–8 Representative of the non-PhD teaching staff at the department’s council
- 1995–6 Manager of a computer lab
- 11/95 Co-organiser, 1st Programming Contest

5 Research and scholarship

5.1 Research interests

Current research interests centre on the links between four aspects of software: its structure, its evolution, its developers, and its quality. Such links are explored empirically, by mining open source software repositories. Links explored so far include:

- structure and quality: do badly structured names affect quality? [74]
- structure and evolution: does copy-paste code increase maintenance effort? [16]
- structure, evolution and quality: do evolving software architectures keep design quality principles? [17]
- structure and developers: does the structure of software correlate to the structure of the development team? [48]

5.2 Research funding

- 1997 – 2007 8 travel grants, from Portuguese and British charities
- 7/02 – 12/05 Network member, RELEASE—Research Links to Explore and Advance Software Evolution, funded by the European Science Foundation, coordinated by the Vrije Universiteit Brussel
- 7/00 – 6/04 Proponent and principal investigator, FAST—Formal Approach to Software Architecture (POSI/32717/CHS/2000), funded by Science and Technology Foundation (47.386 Euro), hosted by Foundation of the Faculty of Sciences, University of Lisbon
- 7/92 – 10/92 Part-time Research Assistantship, Rensselaer Polytechnic Institute, USA
- 10/90 – 1/92 Scientific Research Scholarship, National Board for Scientific and Technological Research
- 10/89 – 9/90 Introduction to Research Scholarship, National Board for Scientific and Technological Research,

5.3 Awards

- 2000 Best application paper [34], Joint APPLIGRAPH/GETGRATS Workshop on Graph Transformation Systems
- 1994 Best student paper [44], 2nd Intl. Conf. on Conceptual Structures

6 Postgraduate student supervision

6.1 PhD

- 10/08 – Simon Butler (part-time), *Programming Conventions*, The Open University. Co-supervisors: Yijun Yu and Helen Sharp.
- 10/06 – Dariusz Kaminski (part-time student), *Software Model-Driven Architecture and Implementation Co-evolution*, The Open University. Co-supervisor: Jon Hall.
- 7/05 – 6/09 Angela Lozano Rodriguez, *Reducing Complexity for Source Code Maintainability*, The Open University. Awarded December 2009. Co-supervisor: Bashar Nuseibeh.
- 1/02 – 6/07 Cristovão Oliveira, *A Framework Based on Coordination and Software Architecture for Mobile Systems*, New University of Lisbon. The student withdrew due to personal problems. Co-supervisor: José Fiadeiro.

6.2 MSc

- 2/10 – Craig Hughes, *Facilitating the creation of music*
- 2/10 – Glen Scott, *Mining Software Repositories*
- 2/09 – Rory Mooney, *How does using a music rhythm videogame affect teaching the drums and percussion*
- 2/08 – 4/09 Ireo Ostacchini, *An agile approach to assumption management* [15]
- 2/07 – 4/08 Steen Jensen, *XML technologies for program comprehension*
- 2/07 – 4/08 Nicholas Hindle, *Composing music by constraint satisfaction*

7 External academic activities

7.1 Membership or offices held in learned societies and professional bodies

- 4/02-4/06 Member of the Board, European Association for Software Science and Technology

7.2 University relations, including negotiations and local liaison

- 3/06 – Academic Reviewer for Baden-Württemberg Academy on behalf of The Open University Validation Services

7.3 External examining

- 10/09 PhD external examiner, Lancaster University
- 10/00 PhD external examiner, Vrije Universiteit Brussel

7.4 Contributions to conferences

- 9/09 – Chair of the steering committee, Intl. Workshop on Principles of Software Evolution (IWPSE)
- 9/03 – Member of the steering committee, European Software Engineering Conference (ESEC)
- 9/03 – 9/05 Member of the steering committee, European Joint Conferences on Theory and Application of Software (ETAPS)
- 4/04 – 8/05 Chair of the steering committee, Fundamental Approaches to Software Engineering (FASE). Member to August 2006
- 1994 – Programme committee member for 41 international conferences and workshops, including:
- Int’l Conf. on Software Engineering, 2002, 2004, 2010 (industrial track)
 - IEEE/IFIP Working Conf. on Software Architecture, 2004, 2009
 - European Software Engineering Conf./ACM Symp. on Foundations of Software Engineering, 2003, 2009
 - Fundamental Approaches to Software Engineering, 2005–06
 - Int’l Conf. on Conceptual Structures, 1995–98, 2000–01
- 1993 – Additional reviewer for 23 international conferences and workshops
- 8/09 Programme committee co-chair (with Kim Mens), Joint 10th International Workshop on Principles of Software Evolution and 5th International ERCIM Workshop of Software Evolution [1], Amsterdam, Netherlands
- 11/08 Member of the workshop selection committee, 16th ACM SIGSOFT Intl. Symposium on the Foundations of Software Engineering, Atlanta, GA, USA, 9–15 November 2008.
- 9/08 Co-organiser (with Ciarán Bryce and Paul Wernick), 4th Intl. ERCIM Workshop on Software Evolution and Evolvability [64], L’Aquila, Italy
- 9/05 General Chair, *Joint 10th European Software Engineering Conf. and 13th ACM SIGSOFT Intl. Symposium on the Foundations of Software Engineering*, Lisbon
- 3/04 Programme committee co-chair (with Tiziana Margaria), *7th Intl. Conf. on Fundamental Approaches to Software Engineering* [2], Barcelona, Spain
- 10/02 Co-organiser (with Reiko Heckel and Tom Mens), *1st Workshop on Software Evolution Through Transformations* [67] at the *1st Intl. Conf. on Graph Transformation*, Barcelona, Spain
- 3/01 Co-organiser (with Tom Mens), *Workshop on Formal Foundations of Software Evolution* [70, 69, 68] at the *5th European Conf. on Software Maintenance and Reengineering*, Lisbon, Portugal
- 3/98–4/98 Editor-in-chief of the *The Daily ETAPS*, the newsletter distributed daily to the participants of the 1st European Joint Conf. on Theory and Practice of Software, Lisbon, Portugal
- 5/97 Student volunteer, 19th Intl. Conf. on Software Engineering, Boston, USA

7.5 Invited lectures

- 2/09 – 7/09 *Of Bugs and Men (and Plugins too)*, presented at the Universities of Bern, Zurich and Lugano and IBM Rational Lab (Switzerland), University of Newcastle (United Kingdom), New University of Lisbon (Portugal)
- 11/08 – 12/08 *Eclipse's Architecture - Design Principles and Socio-Technical Congruence*, Universities of Lincoln, Reading (United Kingdom) and Groningen (Netherlands), Software Improvement Group (consulting company, Netherlands)
- 10/08 *Design Principles in Architectural Evolution: a Case Study*, University of Mons-Hainaut, Belgium
- 11/06 *On the relationship between code cloning and maintenance*, New University of Lisbon
- 3/04 *A Program Design Language for Mobile Architectures*, Seminar “Language Engineering”, Dagstuhl, Germany
- 1/04 *Using Coordination Contracts for Flexible Adaptation to Changing Business Rules*, University of Leicester, United Kingdom
- 1/02 *Theory and Practice of Coordination Technologies*, Université Catholique de Louvain-la-Neuve, Belgium
- 2/01 *A Graph Transformation Approach to Architecture-Based Reconfiguration*, Vrije Universiteit Brussel, Belgium
- 4/99 *Reconfiguration of CommUnity Architectures*, Universidad Complutense de Madrid, Spain
- 5/98 *Specification and Analysis of (Dynamic) Reconfiguration of Software Architectures*, Pontifícia Universidade Católica do Rio de Janeiro and Universidade Federal do Rio de Janeiro, Brazil

7.6 Other external activities

- 2004 – Reviewer of 3 chapters submitted to books
- 1997 – Reviewer of 19 articles submitted to journals including
- ACM Trans. on Software Engineering and Methodology
 - IEEE Trans. on Software Engineering
 - Automated Software Engineering
 - Empirical Software Engineering
 - The Journal of Systems and Software
 - Journal of Software Evolution and Maintenance
- 2005 – 2006 Reviewer of 2 project proposals for Belgian and Dutch research councils

8 Other information

- 2004 – Probation and mock viva co-examiner of 5 PhD students
- 2007 – Internal examiner of 1 MPhil and 1 PhD student

9 Publications

Most papers are available via <http://michel.wermelinger.ws>.

Books Edited

- [1] Tom Mens, Michel Wermelinger, Kim Mens, and Dirk Deridder, editors. *Proc. Joint 10th Int'l Workshop on Principles of Software Evolution and 5th ERCIM Workshop on Software Evolution*. ACM, September 2009.
- [2] Michel Wermelinger and Tiziana Margaria-Steffen, editors. *Proc. 7th Int'l Conf. on Fundamental Approaches to Software Engineering*, volume 2984 of *LNCS*. Springer, April 2004.

Chapters in Books

- [3] Juan Fernandez-Ramil, Angela Lozano, Michel Wermelinger, and Andrea Capiluppi. Empirical studies of open source evolution. In Tom Mens and Serge Demeyer, editors, *Software Evolution: State-of-the-art and research advances*, chapter 11, pages 263–288. Springer Verlag, 2008.
- [4] Michel Wermelinger, Georgios Koutsoukos, Hugo Lourenço, Richard Avillez, João Gouveia, Luís Andrade, and José Luiz Fiadeiro. Enhancing dependability through flexible adaptation to changing requirements. In R. de Lemos, C. Gacek, and A. Romanovsky, editors, *Architecting Dependable Systems II*, volume 3069 of *LNCS*, pages 3–24. Springer-Verlag, 2004.
- [5] José Luiz Fiadeiro, Antónia Lopes, and Michel Wermelinger. A mathematical semantics for architectural connectors. In R. Backhouse and J. Gibbons, editors, *Generic Programming: advanced lectures*, number 2793 in *LNCS*, pages 190–234. Springer-Verlag, 2003.
- [6] Michel Wermelinger. Architectural design in CommUnity: Reconfiguration. In Victoria Cengarle, editor, *Requirements, Design, Correct Construction and Verification*, volume 11 of *Reihe Software-technik*, pages 13–24. Verlag Uni-Druck, 2000.

Refereed journal articles

- [7] Cristóvão Oliveira and Michel Wermelinger. The CommUnity workbench. *Science of Computer Programming*, 69(1-3):46–55, December 2007. Special issue on Experimental Software and Toolkits.
- [8] Brendan Quinn, Leonor Barroca, Bashar Nuseibeh, Juan Fernández-Ramil, Lucia Rapanotti, Pete Thomas, and Michel Wermelinger. Learning software engineering at a distance. *IEEE Software*, 23(6):36–43, November/December 2006.
- [9] Antónia Lopes, Michel Wermelinger, and José Fiadeiro. Higher-order connectors. *ACM Trans. on Software Engineering and Methodology*, 12(1):64–104, 2003.
- [10] Michel Wermelinger and José Luiz Fiadeiro. A graph transformation approach to run-time software architecture reconfiguration. *Science of Computer Programming*, 44(2):133–155, August 2002.
- [11] Michel Wermelinger. Towards a chemical model for software architecture reconfiguration. *IEE Proceedings - Software*, 145(5):130–136, October 1998.
- [12] Michel Wermelinger and José Luiz Fiadeiro. Connectors for mobile programs. *IEEE Transactions on Software Engineering*, 24(5):331–341, May 1998.

Invited conference contributions

- [13] Cristóvão Oliveira, Michel Wermelinger, José Luiz Fiadeiro, and Antónia Lopes. Modelling the GSM handover protocol in CommUnity. *Electronic Notes in Theoretical Computer Science*, 141(3):3–25, December 2005. Keynote at the 2nd Int’l Workshop on Formal Foundations of Embedded Systems and Component-Based Software Architectures.
- [14] Luis Filipe Andrade, Paolo Baldan, Hubert Baumeister, Roberto Bruni, Andrea Corradini, Rocco De Nicola, José Luiz Fiadeiro, Fabio Gadducci, Stefania Gnesi, Piotr Hoffman, Nora Koch, Piotr Kosiuczenko, Alessandro Lapadula, Diego Latella, Antónia Lopes, Michele Loreti, Mieke Massink, Franco Mazzanti, Ugo Montanari, Cristóvão Oliveira, Rosario Pugliese, Andrzej Tarlecki, Michel Wermelinger, Martin Wirsing, and Artur Zawlocki. Agile: Software architecture for mobility. In Martin Wirsing, Dirk Pattinson, and Rolf Hennicker, editors, *Recent Trends in Algebraic Development Techniques, 16th Int’l Workshop, Revised Selected Papers*, volume 2755 of *LNCs*, pages 1–33. Springer, 2002.

Refereed full conference contributions

- [15] Ireo Ostacchini and Michel Wermelinger. Managing assumptions during agile development. In *Proc. 4th Workshop on Sharing and Reusing Architectural Knowledge*, pages 9–16. IEEE, May 2009.
- [16] Angela Lozano and Michel Wermelinger. Assessing the effect of clones on changeability. In *Proc. 24th Int’l Conf. on Software Maintenance*, pages 227–236. IEEE, October 2008.
- [17] Michel Wermelinger, Yijun Yu, and Angela Lozano. Design principles in architectural evolution: a case study. In *Proc. 24th Int’l Conf. on Software Maintenance*, pages 396–405. IEEE, October 2008.
- [18] Angela Lozano, Michel Wermelinger, and Bashar Nuseibeh. Evaluating the relation between changeability decay and the characteristics of clones and methods. In *Proc. 4th Int’l ERCIM Workshop on Software Evolution and Evolvability*, pages 100–109. IEEE, September 2008. Part of the proceedings of the workshops of the 23rd IEEE/ACM Int’l Conf. on Automated Software Engineering.
- [19] Cristóvão Oliveira and Michel Wermelinger. A model-driven approach to extract views from an architecture description language. In *Proc. Working IEEE/IFIP Conf. on Software Architecture*. IEEE, January 2007.
- [20] Angela Lozano, Michel Wermelinger, and Bashar Nuseibeh. Degradation archaeology: studying software flaws’ evolution. In *Proc. 2nd Int’l ERCIM Workshop on Software Evolution*, pages 119–125, 2006.
- [21] Tom Mens, Michel Wermelinger, Stéphane Ducasse, Serge Demeyer, Robert Hirschfeld, and Mehdi Jazayeri. Challenges in software evolution. In *Proc. Int’l Workshop on Principles of Software Evolution*, pages 13–22. IEEE, September 2005.
- [22] Michel Wermelinger and Artur Miguel Dias. A Prolog toolkit for formal languages and automata. In *Proc. 10th Annual Conf. on Innovation and Technology in Computer Science Education*, pages 330–334. ACM, June 2005.

- [23] Jeremy Bradbury, James Cordy, Juergen Dingel, and Michel Wermelinger. A survey of self-management in dynamic software architecture specifications. In *Proc. 1st ACM SIGSOFT Workshop on Self-managed Systems*, pages 28–33. ACM, November 2004.
- [24] Michel Wermelinger, Georgios Koutsoukos, Richard Avillez, João Gouveia, Luis Andrade, and José Luiz Fiadeiro. Using coordination contracts for flexible adaptation to changing business rules. In *Proc. 6th Int'l Workshop on Principles of Software Evolution*, pages 115–120. IEEE, 2003.
- [25] Antónia Lopes, José Fiadeiro, and Michel Wermelinger. Architectural primitives for distribution and mobility. In *Proc. 10th Symp. on the Foundations of Software Engineering*, pages 41–50. ACM Press, November 2002.
- [26] Kim Mens, Tom Mens, and Michel Wermelinger. Maintaining software through intentional source-code views. In *Proc. 14th Int'l Conf. on Software Engineering and Knowledge Engineering*, pages 289–296. ACM, 2002.
- [27] Kim Mens, Tom Mens, and Michel Wermelinger. Supporting software evolution with intentional software views. In *Proc. Int'l Workshop on Principles of Software Evolution*, pages 138–142. ACM, 2002.
- [28] M. Wermelinger, G. Koutsoukos, J. L. Fiadeiro, L. Andrade, and J. Gouveia. Evolving and using coordinated systems. In *Proc. Int'l Workshop on Principles of Software Evolution*, pages 43–47. ACM, 2002.
- [29] Luis Filipe Andrade, José Luiz Fiadeiro, João Gouveia, Georgios Koutsoukos, and Michel Wermelinger. Coordination for orchestration. In *Proc. 5th Int'l Conf. on Coordination Models and Languages*, volume 2315 of *LNCS*, pages 5–13. Springer, April 2002.
- [30] Michel Wermelinger, Antónia Lopes, and José Luiz Fiadeiro. A graph based architectural (re)configuration language. In *Proc. Joint 8th European Software Engineering Conf. and 9th ACM SIGSOFT Symp. on the Foundations of Software Engineering*, pages 21–32. ACM, September 2001.
- [31] Antónia Lopes, Michel Wermelinger, and José Luiz Fiadeiro. A compositional approach to connector construction. In Maura Cerioli and Gianna Reggio, editors, *Recent Trends in Algebraic Development Techniques, 15th Int'l Workshop, selected papers*, volume 2267 of *LNCS*, pages 201–220. Springer, 2001.
- [32] Luis Andrade, José Luiz Fiadeiro, João Gouveia, Georgios Koutsoukos, and Michel Wermelinger. Support for business-driven evolution with coordination technologies. In *Proc. 4th Int'l Workshop on Principles of Software Evolution*, pages 99–102. ACM, 2001.
- [33] Serge Demeyer, Tom Mens, and Michel Wermelinger. Towards a software evolution benchmark. In *Proc. Int'l Workshop on Principles of Software Evolution*, pages 172–175, 2001.
- [34] Michel Wermelinger and José Luiz Fiadeiro. A graph transformation approach to software architecture reconfiguration. In *Proc. Joint APPLIGRAPH and GETGRATS Workshop on Graph Transformation Systems*, number 2000-2 in *Forschungsberichte des Fachbereichs Informatik*, pages 134–141. Technische Universität Berlin, 2000.
- [35] Michel Wermelinger, Antónia Lopes, and José Luiz Fiadeiro. Superposing connectors. In *Proc. 10th Int'l Workshop on Software Specification and Design*, pages 87–94. IEEE, 2000.
- [36] Michel Wermelinger and José Luiz Fiadeiro. Algebraic software architecture reconfiguration. In *Software Engineering - ESEC/FSE'99*, volume 1687 of *LNCS*, pages 393–409. Springer-Verlag, 1999.

- [37] Michel Wermelinger and José Luiz Fiadeiro. Towards an algebra of architectural connectors: a case study on synchronization for mobility. In *Proc. 9th Int'l Workshop on Software Specification and Design*, pages 135–142. IEEE, 1998.
- [38] Michel Wermelinger. Software architecture evolution and the chemical abstract machine. In *Proc. 1st Int'l Workshop on Principles of Software Evolution*, pages 93–97, 1998.
- [39] Michel Wermelinger. Towards a chemical model for software architecture reconfiguration. In *Proc. 4th Int'l Conf. on Configurable Distributed Systems*, pages 111–118. IEEE, 1998.
- [40] Michel Wermelinger. A simple description language for dynamic architectures. In *Proc. 3rd Int'l Workshop on Software Architecture*, pages 159–162. ACM, 1998.
- [41] Michel Wermelinger. A hierarchic architecture model for dynamic reconfiguration. In *Proc. 2nd Int'l Workshop on Software Engineering for Parallel and Distributed Systems*, pages 243–254. IEEE, May 1997.
- [42] Michel Wermelinger. A different perspective on canonicity. In *Conceptual Structures: Fulfilling Peirce's Dream*, volume 1257 of *LNAI*, pages 110–124. Springer-Verlag, 1997. Proc. 5th Int'l Conf. on Conceptual Structures.
- [43] Michel Wermelinger. Conceptual graphs and first-order logic. In *Conceptual Structures: Applications, Implementation and Theory*, volume 954 of *LNAI*, pages 323–337. Springer-Verlag, 1995. Proc. 3rd Int'l Conf. on Conceptual Structures.
- [44] Michel Wermelinger and José Gabriel Lopes. Basic conceptual structures theory. In *Conceptual Structures: Current Practices*, volume 835 of *LNAI*, pages 144–159. Springer-Verlag, 1994. Proc. 2nd Int'l Conf. on Conceptual Structures.
- [45] Michel Wermelinger and Alex Bejan. Conceptual structures for modeling in CIM. In *Conceptual Graphs for Knowledge Representation*, volume 699 of *LNAI*, pages 345–360. Springer-Verlag, 1993. Proc. 1st Int'l Conf. on Conceptual Structures.
- [46] Michel Wermelinger and José Gabriel Lopes. An X-Windows toolkit for knowledge acquisition and representation based on conceptual structures. In Heather Pfeiffer and Timothy E. Nagle, editors, *Conceptual Structures: Theory and Implementation*, volume 754 of *LNCS*, pages 262–271. Springer, 1993. Revised papers of the 7th Annual Workshop on Conceptual Structures.
- [47] Michel Wermelinger and José Gabriel Lopes. Uma ferramenta para aquisição e representação de conhecimento baseada em grafos conceituais. In *Anais do VIII Simpósio Brasileiro de Inteligência Artificial*, pages 287–294. Sociedade Brasileira de Computação, 1991.

Refereed short conference contributions

- [48] Michel Wermelinger, Yijun Yu, and Markus Strohmaier. Using formal concept analysis to construct and visualise hierarchies of socio-technical relations. In *Proc. 31st Int'l Conf. on Software Eng., companion volume*, pages 327–330. IEEE, May 2009.
- [49] Yijun Yu and Michel Wermelinger. Graph-centric tools for understanding the evolution and relationships of software structures. In *Proc. 15th Working Conf. on Reverse Engineering*, pages 329–330. IEEE, October 2008.
- [50] Michel Wermelinger and Yijun Yu. Analyzing the evolution of Eclipse plugins. In *Proc. 5th Working Conf. on Mining Software Repositories*, pages 133–136. ACM, May 2008.

- [51] Dariusz Kaminski, Jon Hall, and Michel Wermelinger. Relating problem oriented engineering to current development processes: a research agenda. In *Proc. 3rd Int'l Workshop on Applications and Advances in Problem Frames*, pages 78–81. ACM, May 2008.
- [52] Angela Lozano, Michel Wermelinger, and Bashar Nuseibeh. Assessing the impact of bad smells using historical information. In *Proc. 9th Int'l workshop on Principles of Software Evolution*, pages 31–34. ACM, 2007.
- [53] Angela Lozano, Michel Wermelinger, and Bashar Nuseibeh. Evaluating the harmfulness of cloning: a change based experiment. In *Proc. 4th Int'l Workshop on Mining Software Repositories*, May 2007.
- [54] Cristóvão Oliveira, Michel Wermelinger, José Luiz Fiadeiro, and Antónia Lopes. An architectural approach to mobility - the handover case study. In *Proc. 4th Working IEEE/IFIP Conf. on Software Architecture*, pages 305–308. IEEE, 2004.
- [55] Cristóvão Oliveira and Michel Wermelinger. The CommUnity workbench. In *Proc. 26th Int'l Conf. on Software Engineering*, pages 711–712. IEEE, 2004. Tool demo paper.
- [56] Luís Andrade, José Luiz Fiadeiro, João Gouveia, Georgios Koutsoukos, and Michel Wermelinger. A coordination methodology and technology for agile businesses. In *Companion of the 17th Conf. on OO Programming, Systems, Languages, and Applications*, pages 48–49. ACM, 2002. Poster description.
- [57] João Gouveia, Georgios Koutsoukos, Michel Wermelinger, Luís Andrade, and José Luiz Fiadeiro. Developing and evolving Java applications using coordination contracts. In *Companion of the 17th Conf. on OO Programming, Systems, Languages, and Applications*, pages 28–29. ACM, 2002. Tool demo description.
- [58] Michel Wermelinger and Cristóvão Oliveira. The CommUnity workbench. In *Proc. 24rd Int'l Conf. on Software Engineering*, page 713. ACM, 2002. Tool demo description.
- [59] João Gouveia, Georgios Koutsoukos, Michel Wermelinger, Luis Andrade, and José Luiz Fiadeiro. Coordination contracts for Java applications. In *Proc. 24rd Int'l Conf. on Software Engineering*, page 714, 2002. Tool demo description.
- [60] João Gouveia, Georgios Koutsoukos, Michel Wermelinger, Luís Andrade, and José Luiz Fiadeiro. The coordination development environment. In *Proc. 5th Int'l Conf. on Fundamental Approaches to Software Engineering*, volume 2306 of *LNCS*, pages 323–326. Springer-Verlag, 2002. Tool demo description.
- [61] Luis Andrade, José Luiz Fiadeiro, and Michel Wermelinger. Enforcing business policies through automated reconfiguration. In *Proc. 16th Int'l Conf. on Automated Software Engineering*, pages 426–429. IEEE, 2001.
- [62] Luis Filipe Andrade, José Luiz Fiadeiro, João Gouveia, Antónia Lopes, and Michel Wermelinger. Patterns for coordination. In *Proc. 4th Int'l Conf. on Coordination Models and Languages*, volume 1906 of *LNCS*, pages 317–322. Springer, September 2000.
- [63] Michel Wermelinger. Formal specification and analysis of dynamic reconfiguration of software architecture. In *Proc. 20th Int'l Conf. on Software Engineering*, volume 2, pages 178–179. IEEE, 1998.

Other publications

- [64] Michel Wermelinger, Paul Wernick, and Ciaran Bryce. Introduction to the 4th international ercim workshop on software evolution and evolvability. In *Proc. 23rd IEEE/ACM Int'l Conf. on Automated Software Engineering - Workshops*, pages i–ii, 2008.
- [65] Michel Wermelinger, Tiziana Margaria, and Maura Cerioli. Introduction to the special section on fundamental approaches to software engineering. *Int'l J. on Software Tools for Technology Transfer*, 9(5-6):415–416, October 2007. Selected revised papers from FASE'04 and FASE'05.
- [66] Maura Cerioli, Tiziana Margaria, and Michel Wermelinger. Foreword to the special issue on fundamental aspects of software engineering. *Theoretical Computer Science*, 376(3):137–138, May 2007. Selected revised papers from FASE'04 and FASE'05.
- [67] Reiko Heckel, Tom Mens, and Michel Wermelinger. Software evolution through transformations: Preface and workshop summary. *Electronic Notes in Theoretical Computer Science*, 72(4):1–5, March 2003.
- [68] Tom Mens and Michel Wermelinger. Separation of concerns for software evolution: guest editors' introduction. *J. of Software Maintenance and Evolution: Research and Practice*, 14(5):311–315, 2002.
- [69] Tom Mens and Michel Wermelinger. Formal foundations of software evolution: Workshop report. *ACM SIGSOFT Software Engineering Notes*, 26(4):27–30, July 2001.
- [70] Tom Mens and Michel Wermelinger, editors. *Proc. Workshop on Formal Foundations of Software Evolution*. Dep. de Informática, Univ. Nova de Lisboa, March 2001. Technical report UNL-DI-1-2001.
- [71] Michel Wermelinger. *Specification of Software Architecture Reconfiguration*. PhD thesis, Universidade Nova de Lisboa, September 1999.
- [72] Michel Wermelinger. Teoria básica das estruturas conceptuais. Master's thesis, Universidade Nova de Lisboa, January 1995.
- [73] Michel Wermelinger. Ambiente de introdução à programação. Technical Report RT-36/90-DI, Dep. de Informática, Univ. Nova de Lisboa, May 1990. Reference manual for version 1.41.

Publications in press

- [74] Simon Butler, Michel Wermelinger, Yijun Yu, and Helen Sharp. Exploring the influence of identifier names on code quality: an empirical study. In *Proc. 14th European Conf. on Software Maintenance and Reengineering*. IEEE, March 2010. To appear.