

## Curriculum Vitae – August 2010

Danny Weyns

### Contact Information

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### Present Employment

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2001-today	DistriNet Labs Department of Computer Science Katholieke Universiteit Leuven
2001-2006	Research Assistant
1/2007-10/2007	Post-Doctoral Researcher Research Funding K.U.Leuven (PDM)
From 10/2007	Post-Doctoral Researcher Research Foundation Flanders (FWO)

### Visiting Researcher

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2008	University of Rostock Germany in collaboration with Prof. Adelinde Uhrmacher (5/2008 and 11/2008)
2009	Valoria Lab of the Université de Bretagne-Sud, France in collaboration with Prof. Flavio Oquendo (5/2009-12/2009)
2010	Valoria Lab of the Université de Bretagne-Sud, France in collaboration with Prof. Flavio Oquendo (6/2010-7/2010)

### Education

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June 1980	Master in Electronics (cum laude) Katholieke Hogeschool Kempen, Geel Thesis title “IEC-GART Interface”
June 1981	Post-graduate teacher training
June 2001	Master in Informatics (summa cum laude) Katholieke Universiteit Leuven

October 2006	Thesis title "Serialization of Distributed Execution State in Java" Supervision E. Truyen, P. Verbaeten PhD in Engineer Science, Computer Science Katholieke Universiteit Leuven
September 2009	Dissertation title "An Architecture-Centric Approach for Software Engineering of Situated Multiagent Systems" Dissertation Committee T. Holvoet, P. Verbaeten, Y. Berbers, H. Blockeel, W. Joosen, V. Parunak, F. Zambonelli Certificate Software Architecture Professional Carnegie Mellon University, Software Engineering Institute Pittsburg USA
February 2010	Certificate ATAM Evaluator Carnegie Mellon University, Software Engineering Institute Pittsburg USA

## Grants and Projects

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### Academic grants

From 10/2010	Post Doctoral Researcher funded by the Research Foundation Flanders (FWO) "A framework for decentralized self-adaptive systems"
10/2007-9/2010	Post Doctoral Researcher funded by the Research Foundation Flanders (FWO) "Study of an architecture description language for decentralized software systems"
1/2007-10/2007	Post Doctoral Researcher funded by the Katholieke Universiteit Leuven (PDM) "Web service composition with multi-agent systems"
26/4-2/5 2008	Short visit Carnegie Mellon University, Software Engineering Institute, Pittsburgh USA funded by the Researcher Research Foundation Flanders (FWO)
5/2009-12/2009	Visiting researcher at the Université de Bretagne-Sud, France funded by the Researcher Research Foundation Flanders (FWO) "Formal modeling of dynamic software architectures of decentralized systems"
6/2010-7/2010	Visiting researcher at the Université de Bretagne-Sud, France funded by the Researcher Research Foundation Flanders (FWO) "Formal Specification of Architectural Patterns for Multi-Agent Systems"

### Projects

4/2009-3/2011	Software Product Lines for Logistic Systems (E'SPLS) in collaboration with Egemin: Promoter. This O&O project is funded (research budget 250K) by the Institute for the Promotion of Innovation through Science and Technology in Flanders. The project envisions a dynamic software product line approach that supports both static and dynamic variability in logistic systems
1/2008-12/2011	Distributed Collaboration using Multi-Agent System Architectures (DiCoMAS) in collaboration with COMO-VUB, DDS K.U.Leuven Kortrijk, and Kahosl: Contributed to the project proposal (with T. Holvoet and B. De Decker). This SBO project is funded by the Institute for the Promotion of Innovation through Science and Technology in Flanders. The objective of the project is to provide a reusable software architecture that supports the development of applications for automated collaboration between business processes.
1/2004-3/2007	Egemin Machine Control Centre (EMC2) in collaboration with Egemin: Contributed to the project proposal (with Y. Berbers and T. Holvoet); software architect. This O&O project was funded by Institute for the Promotion of Innovation through Science and Technology in Flanders. The main target of this project was to study, develop, and evaluate a decentralized control system for automatic guided vehicles.
10/2008-10/2011	European COST Action IC0801 on Agreement Technologies: Member of the Management Committee

## Awards

2007 Finalist for the Cor Baayen Award for a most promising young researcher in computer science and applied mathematics by European Research Consortium for Informatics and Mathematics (ERCIM)

## Teaching

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### Academic courses

2004-2007 Principles of Programming  
Master in Informatics & Master in de Engineering: Computer Science  
Main topics: Basic algorithms, Classes and objects; Encapsulation and information hiding; Advanced algorithms; Recursion; Correctness proofs; Complexity of algorithms

2007-2010 Capita Selecta on Distributed Systems - Autonomic Computing  
Master in Informatics & Master in de Engineering: Computer Science  
Main topics: Autonomic computing; Self-adaptive systems; Decentralized architectures for self-adaptive systems; Dynamic software architectures; Reflection and self-adaptation

2008-2010 Distributed Software Architecture – Advanced Study  
Master in Informatics & Master in de Engineering: Computer Science  
Main topics: View-based architectural descriptions; Architectural patterns for distributed computing; Architecture evaluation, Rationale; Architecture frameworks; Architecture standard; Advanced project

### Technical bachelor courses

2001-2010 Microcontrollers  
Bachelor Electronics  
Main topics: Microcontroller architectures; C language; I/O, interrupts; Timers; AD and DA conversion; Practical exercises

### Industry courses

2009-2010 Turning software architecture into a competitive advantage using ISO 42010 ICT professionals  
Main topics: Software architecture and the ISO/IEC 42010 standard; Linking business objectives to software; Creating a software architecture; Documenting and evaluating architecture; Product-line architectures; Hands-on sessions

### Previous experiences

1986-2001 From 1986 to 2001, I was lector at the Hogeschool voor Wetenschap en Kunst, Brussels where I was responsible for courses on electronics and networks, including: Digital electronics; Transmission lines; Power electronics; Automotive electronics; Networks. Between 1996 and 2001, I was thesis supervisor of 10 Bachelor students.

## Counseling Students

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### Doctoral students & PhD juries

2005-2009 Nelis Boucké, Katholieke Universiteit Leuven, Composition and relations of architectural models supported by an architectural description language. Counselor and member of the jury (Oct. 23, 2009).

From 2006 Robrecht Haesevoets, Katholieke Universiteit Leuven, A middleware for dynamic organizations of agents. Counselor.

From 2010 Stijn Vandael, Katholieke Universiteit Leuven, Coordination patterns for charging plug-in hybrid vehicles in a Smart Grid. Supervision commission.

From 2010	Xiong Qin, Université de Bretagne-Sud, France, Software Environment for Architecting Service-Oriented Systems based on Pi-ADL. Supervision commission.
2010	Maruf Pasha, Université de Bretagne-Sud, France, Grille sémantique autonome : un intergiciel pour l'interopérabilité d'agents et services web. Member of the jury (Feb. 4, 2010).
2010	Nadeem Akhtar, Contribution à la spécification formelle et à la vérification de systems multi-agents robotiques Université de Bretagne-Sud, France, Member of the jury (Planned August, 2010).
From 2010	Bartosz Michalik, Katholieke Universiteit Leuven, Automatic generation of architecture views. Supervisor.

### Master students

2003	Olivier Glorieux, A model for adaptive agents applied to the Packet World Jonas De Meulenaere, Stigmergy applied in the Packet-World. Bart Vandeweerd, A model for the environment in reactive multi-agent systems.
2004	Luc Claesen, Regional synchronization in situated multi-agent systems Nelis Boucke, Situated multi-agent approach for distributing control in automatic guided vehicle systems Robin Custers, The Agent Network Architecture extended for cooperative robots Andy Holvoet, Simulation of a file management system in a P2P-network
2005	Wannes Schols, Gradient field based order assignment in AGV systems Els Helsen and Koen Deschacht, The Delta framework for situated multi-agent systems
2006	Bart Demarsin, DynCNET: A protocol for flexible transport assignment in AGV transportation systems
2007	Wouter Delbaere and Bart Lamberigts, Flexible integration of functionalities in a decentralized AGV transportation system
2008	Jesper Boncquet and Mante Bos, Detection of toxic clouds using a wireless sensor network
2009	Thomas Borgs, An aspect-oriented framework for self-adaptive software systems: design and evaluation Wouter Labeeuw, Prediction of congested traffic on the critical density point using machine learning and decentralized collaborating sensors

### Invited Lectures, Talks, & Seminars

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#### Tutorials

2008	Multi-agent based coordination of AGVs with task assignment based on potential fields, 2nd Almende Summer School, Rotterdam, The Netherlands
2008	Co-tutor with E. Platon of tutorial on Wireless Sensor Networks and Multiagent Systems, 10th European Agent Systems Summer School, EASSS, Estoril, Portugal
2006	Tutor of tutorial on Environments in Multiagent Systems, 8th European Agent Systems Summer School, EASSS, Annecy, France

#### Invited talks

2010	Middleware support for multi-agent systems, International Workshop on Infrastructures and Tools for Multiagent Systems, AAMAS, Toronto Canada
2006	On the connection between multi-agent systems and software architecture, 7th International Workshop on Engineering Societies in the Agents World, Dublin Ireland
2006	Architecture-centric perspective on software engineering of multi-agent systems, 4th European AgentLink Technical Forum, University of Lisbon, Portugal

2005 From reactive robotics to situated multi-agent systems, 6th International Workshop on Engineering Societies in the Agents World, Kusadashi, Turkey

### **Invited Lectures**

Nov. 9, 2009 Architectural Patterns for Decentralized Self-Adaptive Systems, GMU Software Engineering Seminar Series, George Mason University, Washington DC, USA

Feb. 3, 2009 Architecture-based design of multi-agent systems, VALORIA - Université de Bretagne Sud, France

Nov. 27, 2007 Decentralized software architectures for multiagent systems (with A. Helleboogh), University of Rostock, Germany

Jun. 21, 2007 Architecture-centric engineering of multi-agent systems, Laboratoire informatique de Paris 6, France

Apr. 2, 2007 The agent environment as a first-class design abstraction in multi-agent systems, Agent Colloquium, Utrecht University, Delft University of Technology, The Netherlands Research Institute for Mathematics and Computer Science, Utrecht, The Netherlands

Apr. 3, 2005 Situated multi-agent systems for developing complex distributed applications, Department of Informatics, Systems and Communication, University of Milan, Italy

### **Industry Course**

2009 Turning software architecture into a competitive advantage using ISO 42010, 2-day course for ICT Professionals (with Alexander Helleboogh), Katholieke Universiteit Leuven, December 7-8, 2009

### **Panels**

2010 Services and Multiagent Systems, (P. McBurney, D. Weyns, M. Esteva, P. Noriega, Chair J. A. Rodríguez-Aguilar), ITMAS AAMAS

2009 A Research Road Map for Adaptive Systems (N. Bencomo, D. Weyns, H. Muller, B. Cukic, Chairs H. Giese and R. de Lemos), SEAMS ICSE

2008 Future of Software Engineering and Multiagent (S. DeLoach, M. Calisti, D. Weyns, M. Georgeff, Chairs V. Parunak & O. Shehory), AAMAS

2004 Software Engineering for Context-Aware Multiagent Systems Systems (S. DeLoach, N. Minski, A. Tripathy, D. Weyns, Chair H. Giese), SELMAS ICSE

2002 Argumentation and Negotiation (R. Agerri, U. Endriss, I. Rahwan, C. Walton, D. Weyns, Chair N. Jennings), UKMAS

### **Dagstuhl Seminars**

Oct. 24-29, 2010 Seminar 10431, Software Engineering for Self-Adaptive Systems (planned) (Chairs: R. de Lemos, H. Giese, H. Muller, M. Shaw)

Jan. 10-15, 2010 Seminar 10021, Service-Oriented Architecture and (Multi-)Agent Systems Technology (Chairs: M. Calisti, F. Dignum, R. Kowalczyk, F. Leymann, R. Unland)

Jan. 13-18, 2009 Seminar 08031, Software Engineering for Self-Adaptive Systems (Chairs: B. Cheng, R. de Lemos, H. Giese, P. Inverardi, J. Magee)

### **Selection of publications**

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#### **Peer reviewed journal articles**

D. Weyns, M. Georgeff, Self-Adaption using Multi-Agent Systems, IEEE Software, 27(1), pp. 86-91, 2010 [ISI 5-year: 2.732]

N. Boucke, D. Weyns, T. Holvoet, Composition of Architectural Models: Empirical Analysis and Language Support, Journal of Systems and Software (JSS), accepted [ISI 5-year: 1.312]

D. Weyns, N. Boucke, and T. Holvoet, A Field-Based Versus a Protocol-Based Approach for Adaptive Task Assignment, *Journal on Autonomous Agents and Multi-Agent Systems*, 17(2), pp. 288-319, 2008 [ISI 5-year: 2.835]

D. Weyns, A. Omicini, and J. Odell, Environment as a first-class abstraction in multiagent systems, *International Journal on Autonomous Agents and Multi-Agent Systems* 14 (1), pp. 5-30, February, 2007 [ISI 5-year: 2.835, cited 33; Google Scholar 8/2010: 116 citations]

D. Weyns, and T. Holvoet, A formal model for situated multi-agent systems, *Fundamenta Informaticae* 63 (2-3), pp. 125-158, November, 2004 [ISI 5 year: 0.753, Google Scholar 8/2010: 66 citations]

D. Weyns, A. Helleboogh, R. Haesevoets, T. Holvoet, W. Joosen, The MACODO Middleware for Context-Driven Dynamic Agent Organizations, *ACM Transaction on Adaptive and Autonomous Systems*, TAAS, 5(1), 2010

### **Book chapters**

N. Boucke, D. Weyns, R. Hilliard, T. Holvoet, and A. Helleboogh, Characterizing Relations between Architectural Views, 2nd European Conference on Software Architecture, ECSA 2008, *Lecture Notes in Computer Science*, vol. 5292, 2008

D. Weyns, H. Parunak, F. Michel, T. Holvoet, and J. Ferber, Environments for multi-agent systems, state-of-the-art and research challenges, *Environments for multi-agent systems*, vol 3374, *Lecture Notes in Computer Science*, pp. 1-48, 2005 [Google Scholar 8/2010: 157 citations]

### **Peer reviewed conference papers**

D. Weyns, S. Malek, J. Andersson, FORMS: a FOrmal Reference Model for Self-adaptation, 7th International Conference on Autonomic Computing and Communications, ICAC, 2010

D. Weyns, A Pattern Language for Multi-Agent Systems, Joint Working IEEE/IFIP Conference on Software Architecture & European Conference on Software Architecture, WICSA/ECSA 2009

T. Holvoet, D. Weyns, P. Valckenaers, Patterns for Delegate Multiagent Systems, 3th IEEE International Conference on Self-Adaptive and Self-Organizing Systems, SASO 2009

D. Weyns, T. Holvoet, K. Schelfhout, J. Wielemans, Decentralized Control of Automatic Guided Vehicles: Applying Multi-Agent Systems in Practice, Development Track OOPSLA, Companion ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications, Nashville, USA, 2008

D. Weyns, K. Schelfhout, T. Holvoet, and T. Lefever, Decentralized control of E'GV transportation systems, International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2005 [Google Scholar 8/2010: 76 citations]

### **Authored book**

D. Weyns, *Architecture-Based Design of Multi-Agent Systems*, Springer, 240 p. ISBN: 978-3-642-01063-7, May 2010

## **Organizational and Editorial Activities**

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### **Organizational activities**

- 2010
- Co-workshop chair (with Rafael Capilla) of the 4th European Conference on Software Architecture ECSA, Copenhagen, August 23-26, 2010
  - Co-organizer (with Sam Malek, Jesper Andersson, and Bradley Schmerl) of the Second International Workshop on Self-Organizing Architectures, SOAR, at the 7th International Conference on Autonomic Computing and Communications ICAC, Washington, DC, USA, June 7th, 2010
  - Co-organizer (with Marie-Pierre Gleizes) of the 11th International Workshop on Agent Oriented Software Engineering, AOSE, at the 9th International Conference on Autonomous Agents and Multiagent Systems AAMAS, Toronto Canada, May 10, 2010
- 2009
- Co-organizer (with Sam Malek, Rogério de Lemos, and Jesper Andersson) of the International Workshop on Self-Organizing Architectures, SOAR, at the

- Joint Working IEEE/IFIP Conference on Software Architecture and European Conference on Software Architecture, University of Cambridge, UK, WICSA/ECSA 2009
- Organizer of the Special Session on Coordination of Agents Inspired by Natural Systems at the Winter Simulation Conference, Austin, USA, WSC 2009.
  - Co-chair (With Paolo Giorgini) of the Exhibits and Demo Track, International Joint Conference on Autonomous Agents and Multiagent Systems AAMAS 2009
- 2008
- Co-organizer (with Sven Brueckner and Yves Demazeau) of the International Workshop on Environment-Mediated Coordination of Self-Organizing and Self-Adaptive Systems, ECOSOA, at 2nd International Conference on Self-Organizing and Self-Adaptive Systems, Venice, Italy, SASO, 2008
  - Coordinator of the Session on the Future of Software Engineering and Multiagent Systems, FOSE-MAS, at 7th Joint Conference on Autonomous Agents and Multiagent Systems, Estoril, Portugal, AAMAS 2008
  - Co-organizer (with A. Ricci, E. Platon, and F. Ishikawa) of the Track on Agent-Oriented Programming, Systems, Languages, and Applications, APSLA, at the 23rd Annual ACM Symposium on Applied Computing (ACM SAC 2008), Fortaleza, Brazil, 2008
  - Co-organizer (with R. Hilliard and N. Boucké) of Session on Relationships Between Architectural Views at Working International Conference on Software Architecture, Vancouver, Canada, WICSA 2008
- 2007
- Initiator and co-organizer (with Sven Brueckner and Yves Demazeau) of International Conference on Engineering Environment-Mediated Multiagent Systems, Dresden, Germany
- 2004-2006
- Initiator and co-organizer (with H.V.D. Parunak en F. Michel) of the series of International Workshops on Environments in Multiagent Systems, New York 2004, Utrecht 2005, Hakodate 2006
- 2006
- Organizer and chair of the Special Track on Multiagent Systems and Software Architecture at the Internationale Conference Net.ObjectDays in Erfurt, Germany
- 2005
- Chair of the European AgentLink Technical Forum, Track Environments for Multiagent Systems, Forum II in Budapest, Forum III in Ljubljana
- Editorial activities**
- 2010
- Co-editor with Rogerio de Lemos, Sam Malek and Jesper Andersson of the Springer Lecture Notes in Computer Science volume on Self-Organizing Architectures (vol. 6090)
  - Co-editor with Marie-Pierre Gleizes. Springer Lecture Notes in Computer Science volume, Agent-Oriented Software Engineering XI (in preparation)
- 2009
- Editor with Lin Uhrmacher of the book Multi-Agent Systems: Simulation and Applications published by Taylor and Francis
  - Guest editor with H.V.D. Parunak and Onn Shehory of Special Issue on Future of Software Engineering and Multiagent Systems in International Journal on Agent-Oriented Software Engineering, 3(4), 2009
  - Guest editor with Andrea Omicini of Special Issue on Engineering Environments for Multiagent Systems in International Journal on Multiagent and Grid Systems, MAGS, 5(1), 2009
- 2008
- Co-editor with Sven Brueckner and Yves Demazeau of the Springer Lecture Notes in Computer Science volume on Engineering Environment-Mediated Multiagent Systems (vol. 5049)
  - Guest editor of Special Issue on Multiagent Systems and Software Architecture in International Journal on Agent-Oriented Software Engineering, 2(1)
- 2004-2007
- Co-editor with H.V.D. Parunak and F. Michel of the Springer Series Lecture Notes in Computer Science on Environments for Multiagent Systems (vol. 3374, 3830, 4389)

2006 Guest editor with H.V.D. Parunak of the Special Issue on Environments in Multiagent Systems in Journal on Autonomous Agents and Multiagent Systems, JAAMAS, 14(1)

### **Review activities**

Since 2007 Member of the editorial board of International Journal on Multiagent and Grid Systems, MAGS

2009 Project reviewer for Netherlands Organization for Scientific Research (NWO)

2004-2010 Reviewer for the following international journals:

- IEEE Transactions on Software Engineering TSE
- ACM Transactions on Software Engineering and Methodology TOSEM
- IEEE Computer
- Journal of Systems and Software
- IEEE Transactions on Services Computing
- Autonomous Agents and Multi-Agent Systems JAAMAS
- Knowledge Engineering Review KER
- ACM Transactions on Autonomous and Adaptive Systems TAAS
- Applied Artificial Intelligence
- Multi-Agent and Grid Systems MAGS
- IEE Software, Knowledge and Information Systems
- Science of Computer Programming
- Computer Journal
- Transportation Research Part C
- Systems Man and Cybernetics Part A
- International Journal of Vehicle Autonomous Systems
- Computer Systems Science
- Computers in Industry
- Engineering Swarm Intelligence
- Engineering Applications of Artificial Intelligence
- Electronic Notes in Theoretical Computer Science

2009-2010

- Senior Program Committee member of International Joint Conference on Autonomous Agents and Multiagent Systems AAMAS 2009, 2010
- Program Area Chair Applications, International Joint Conference on Autonomous Agents and Multiagent Systems AAMAS 2009
- Reviewer of WD3 ISO/IEC 42010 Standard Systems and Software Engineering - Architecture Description

2004-2010 Member of the program committee of:

- International Workshop on Dynamic Software Product Lines, DSPL 2010
- International Workshop on Service-Oriented Computing: Agents, Semantics, and Engineering, SOCASE 2010
- International Conference on Simulation Tools and Techniques, SimuTools 2010
- Workshop on Artificial Transportation Systems and Simulation, ATSS 2010
- Self-organizing Complex Systems at ACM SAC, SCS 2010
- Winter Simulation Conference, WSC 2009
- International Conference on Autonomic Computing and Communication Systems AUTONOMICS 2009
- International Workshop on Software Engineering of Self-Adaptive and Self-Managing Systems SEAMS 2009, 2011
- International Workshop on Early Aspects, EA, AOSD 2009
- International Conference on Intelligent Agent Technology IAT 09
- International Workshop on Agent-Oriented Software Engineering AOSE 2009
- International Conference on Practical Applications of Agents and Multi-Agent Systems PAAMS 2009, 2010
- International Conference on Agents and Artificial Intelligence ICAART 2009
- International Workshop on Organizational Modeling, ORGMOD 2009

- International Workshop on. Modelling of Objects, Components, and Agents, MOCA 2009
- Middleware 2008 (Posters)
- International Joint Conference on Autonomous Agents and Multiagent Systems AAMAS 2005, 2006, 2007, 2009, 2010 (finalist best PC member 2006)
- German Conference on Multiagent System Technologies MATES 2004, 2007, 2008, 2009
- Special Track on Agent-Oriented Software Engineering Methodologies and Systems at ACM SAC 2009, 2010
- Special Track on Agreement Technologies at ACM SAC 2009
- Special Track on Self-organization in Pervasive Distributed Systems at ACM SAC, SOPDS 2008, 2009
- International Workshop on Agents in Traffic and Transportation ATT 2008
- International Workshop From Agent Theory to Agent Implementation AT2AI-6 2008, AT2AI-7 2009
- International Workshop on Intelligent Agents and Services for Smart Environments IASSE 2008
- European Agent Systems Summer School (Student Session) 2008, 2010
- International Workshop on Software Engineering for Large-Scale Multiagent Systems SELMAS 2005, 2006
- International Workshop on Learning and Adaption in Multi-Agent Systems LAMAS 2005
- International Workshop on Adaptive Learning Agents and Multiagent Systems ALAMAS 2007
- International Workshop on Engineering Societies in the Agents World ESAW 2005, 2006, 2007, 2008, 2009
- European Workshop on Multiagent Systems EUMAS 2005, 2006, 2007, 2008, 2009, 2010
- International Workshop on Agent Based Modeling and Simulation AB-ModSim 2006, 2008
- Nature Inspired Systems for Parallel, Asynchronous and Decentralised Environments NISPADE 2006
- International Workshop on the Foundation of Coordination Languages and Software Architecture FOCLASA 2006, 2007, 2008, 2009, 2010
- International Conference on Innovative Views of .NET Technologies IVNET 2006
- International Workshop on Petri Nets and Software Engineering PNSE 2007
- International Workshop on Coordination, Organization, Institutions and Norms COIN 2007, 2010

## Complete List of Publications

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### International reviewed journals

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|-------|--|
| IJ.20 | N. Boucke, D. Weyns, T. Holvoet, Composition of Architectural Models: Empirical Analysis and Language Support, Journal of Systems and Software (JSS), accepted [ISI 5-year: 1.312]                                   |
| IJ.19 | D. Weyns, M. Georgeff, Self-Adaption using Multi-Agent Systems, IEEE Software, 27(1), pp. 86-91, 2010 [ISI 5-year: 2.732]  |
| IJ.18 | D. Weyns, N. Boucke, and T. Holvoet, A Field-Based Versus a Protocol-Based Approach for Adaptive Task Assignment, Journal on Autonomous Agents and Multi-Agent Systems, 17(2), pp. 288-319, 2008 [ISI 5-year: 2.835] |
| IJ.17 | D. Weyns, A. Omicini, and J. Odell, Environment as a first-class abstraction in multiagent systems, International Journal on Autonomous Agents and Multi-  |

- Agent Systems 14 (1), pp. 5-30, February, 2007 [ISI 5 year: 2.835, cited 31; Google Scholar 5/2010: 106 citations]
- IJ.16 V. Parunak, and D. Weyns, Guest editors' introduction, special issue on environments for multi-agent systems, *International Journal on Autonomous Agents and Multi-Agent Systems* 14 (1), pp. 1-4, February, 2007 [ISI 5-year: 2.835]
- IJ.15 D. Weyns, M. Schumacher, A. Ricci, M. Viroli, and T. Holvoet, Environments in multiagent systems, *The Knowledge Engineering Review* 20 (2), pp. 127-141, June, 2005 [ISI 5-year: 2.763]
- IJ.14 D. Weyns, and T. Holvoet, A formal model for situated multi-agent systems, *Fundamenta Informaticae* 63 (2-3), pp. 125-158, November, 2004 [ISI 5-year: 0.753, Google Scholar 5/2010: 63 citations]
- IJ.13 D. Weyns, E. Steegmans, and T. Holvoet, Towards active perception in situated multi-agent systems, *Applied Artificial Intelligence* 18 (9-10), pp. 867-883, October, 2004 [ISI-5 year: 0.854, Google Scholar 5/2010: 43 citations]
- IJ.12 D. Weyns, A. Helleboogh, R. Haesevoets, T. Holvoet, W. Joosen, The MACODO Middleware for Context-Driven Dynamic Agent Organizations, *ACM Transaction on Adaptive and Autonomous Systems, TAAS*, 5(1), 2010
- IJ.11 D. Weyns, A. Helleboogh, R. Haesevoets, The MACODO Organization Model for Context-driven Dynamic Agent Organizations, *ACM Transaction on Adaptive and Autonomous Systems, TAAS* (to appear)
- IJ.10 D. Weyns, H.V.D. Parunak, O. Shehory, The Future of Software Engineering and Multiagent Systems, *International Journal on Agent Oriented Software Engineering*, 3(4), pp. 369-377, 2009
- IJ.09 D. Weyns, A. Helleboogh, T. Holvoet, How to Get Multiagent Systems Accepted in Industry? *International Journal on Agent Oriented Software Engineering*, 3(4), pp. 383-390, 2009
- IJ.08 D. Weyns and T. Holvoet, Mediating Agents' Activities in Situated Multiagent Systems, *CPE Special Issue on Coordination in Pervasive Environments, Ubiquitous Computing and Communications Journal*, June 2008
- IJ.07 D. Weyns and T. Holvoet, Architectural Design of a Situated Multiagent System for Controlling Automatic Guided Vehicles, *Special Issue on Multiagent Systems and Software Architecture, International Journal on Agent Oriented Software Engineering*, 2(1), pp. 90-128, 2008
- IJ.06 D. Weyns, Guest editors' introduction, special issue on multiagent systems and software architecture, *International Journal on Agent Oriented Software Engineering*, 2(1), pp. 1-2, 2008
- IJ.05 D. Weyns, A. Helleboogh, T. Holvoet, M. Schumacher, The Environment in Multiagent System: A Middleware Perspective, *Special Issue on Engineering Environments for Multiagent Systems, International Journal on Multiagent and Grid Systems*, 5(1), pp. 93-108, 2009
- IJ.04 K. Schelfthout, D. Weyns, and T. Holvoet, Middleware for protocol-based coordination in mobile applications, *IEEE Distributed Systems Online* 7 (8), pp. 1-18, August, 2006
- IJ.03 D. Weyns, K. Schelfthout, T. Holvoet, Architectural design of a distributed application with autonomic quality requirements, *ACM SIGSOFT Software Engineering Notes*, 30(4), 2005
- IJ.02 D. Weyns, and T. Holvoet, On the role of environments in multiagent systems, *Informatica* 29 (4), pp. 409-421, 2005.
- IJ.01 D. Weyns, E. Truyen, and P. Verbaeten, Serialization of Distributed Threads in Java, *Scalable Computing: Practice and Experience* 6 (1), pp. 81-98, 2005.

## Book chapters

- BC.24 J. Andersson, R. de Lemos, S. Malek, and D. Weyns. Modeling Dimensions of Self-Adaptive Software Systems, (B. H. C. Cheng, R. de Lemos, H. Giese, P.

- Inverardi, and J. Magee, eds.) Lecture Notes in Computer Science, Hot Topics, vol. 5525, 2009.
- BC.23 B. Cheng, R. de Lemos, H. Giese, P. Inverardi, J. Magee, J. Andersson, B. Becker, N. Bencomo, Y. Brun, B. Cukic, G. Di Marzo Serugendo, S. Dustdar, A. Finkelstein, C. Gacek, K. Geihs, V. Grassi, G. Karsai, H. Kienle, J. Kramer, M. Litoiu, S. Malek, R. Miranda, H. Muller, S. Park, M. Shaw, M. Tichy, M. Tivoli, D. Weyns, J. Whittle, Software Engineering for Self-Adaptive Systems: A Research Roadmap, Lecture Notes in Computer Science, Hot Topics, vol. 5525, 2009.
- BC.22 N. Boucke, D. Weyns, R. Hilliard, T. Holvoet, and A. Helleboogh, Characterizing Relations between Architectural Views, 2nd European Conference on Software Architecture, ECSA 2008, (Morrison, R. Balasubramaniam, D. Falkner, K., eds.) Lecture Notes in Computer Science, vol. 5292, 2008
- BC.21 A. Helleboogh, D. Weyns, T. Holvoet, On the Role of Software Architecture for Simulating Multi-Agent Systems, (A. Uhrmacher and D. Weyns eds.), Chapter 6 in: Multi-Agent Systems: Simulation and Applications, Taylor and Francis, 2009
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