

Biographical Sketch

Prof. Dr. rer. nat. Jürgen Dix *

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Abstract

This is a three pages CV focussing on recent developments (2002–2008). More activities and an updated publication list (as well as postscript- or pdf- files of most of the papers) can be accessed from my homepage which is weekly updated.

Since 2004, Jürgen Dix is Full Professor (*Chair for Computational Intelligence and Theory*) and Head of the Department of Computer Science at Clausthal University of Technology (Dipl.-Math. in 1986 (University of Heidelberg), Dr. rer.-nat. in 1992 (TU Karlsruhe), Univ.-Doz. (Habilitation) in 1996 (TU Vienna)), member of the Institute of Information Systems at TU Vienna (Austria) and honorary member of the Department of Computer Science at Victoria University of Manchester (United Kingdom).

He worked since 1989 in several areas of *Computational Logic* (nonmonotonic reasoning, logic programming, deductive databases, knowledge representation) and, since 1998, also in *Multi-Agent Reasoning*. He has published more than 190 papers and gave more than 60 invited talks/tutorials (USA, UK, Australia, Argentina, France, Austria, Poland). He has co-authored two monographs (MIT Press and Cambridge University Press), co-edited 13 books (Springer LNCS, LNAI, MASA) and nine special issues of various journals. He was coordinating node for CompuLog, CoLogNet, AgentLink I, II, III and for WASP, a European network on answer set programming and is member of the *American Association of Artificial Intelligence*, and the *Association of Computing Machinery*.

Among the key achievements of his work in the past five years are the foundations of logic-based heterogenous agent systems and contributions to computational logic (deductive databases). Prof. Dix has led a range of successful projects (ca. 1 Mio €) and organised more than 30 international conferences and workshops. Since 1990 he was on the programme committees of more than 80 international events. He is on the PC of most conferences and workshops in computational logic, on the steering committees of ProMAS and CLIMA, and on the Editorial Boards of 6 international journals.

He has supervised 4 PhD's, is currently supervising another 4 and acted as external examiner for 5 PhD's (UK, Italy, Germany, Argentina). He has also (co-) supervised 15 diploma theses since 2004.

From 2004–2008 he acted as Head of Department. Since 2008 he serves as Dean of the faculty.

*Other affiliations: member of the Institute for Informationsystems, TU Vienna and honorary member of the Department of Computer Science, Victoria University of Manchester.

Name: Jürgen Dix

Degrees:

1979 Abitur Gutenberg Gymnasium (Wiesbaden), **1.0**
1986 Dipl.-Math. Mathematics/Physics, (Heidelberg), **outstanding**
1992 Dr. rer.-nat. CS Department, TU Karlsruhe, **Summa cum Laude**
1996 Univ.-Doz. CS Department, TU Vienna

Career Review:

1994-2000 Assistant Professor (C1), Koblenz (Germany)
1999 Visiting Professor at University of Maryland, College Park (USA)
2000-2004 Reader for Knowledge Representation and Reasoning, Manchester (UK)
since 2004 Full Professor for Computational Intelligence (W3), Clausthal (Germany)

Professional Activities:

since 1996 various guest professorships abroad (USA, Austria, Argentina, France)
since 1996 Organiser of > 40 and PC member of > 90 international workshops and conferences
since 2003 Member of Steering committees of ProMAS-, CLIMA-conferences
since 2001 Coordinating Node of Agentlink II, III and WASP
since 2001 Editorial Board of Annals of Mathematics and AI
since 2003 Editorial Board of Journal of Applied Logic
since 2004 Editorial Board of Theory and Practice of Logic Programming
since 2005 Editorial Board of Journal of Artificial Intelligence Research
since 2005 Editorial Board of Agent-Oriented Software Engineering
since 2006 Member of the EPSRC Peer Review College
since 2003 Expert Evaluator in FP6 and FP7 (since 2007)
since 2007 Editorial Board of Journal of Pattern

Grants:

1995-2000 Disjunctive Logic Programming (400.000 €, DFG)
1998-2002 Defeasible Reasoning and Logic Programming (15.000 €, Ger.-Arg. Project)
1999-2003 Intelligent Information Extraction and WEB Querying (150.000 €, DFG)
2002-2005 Answer Set Programming (23.000 €, EU Network)
2001-2005 Optimizations of MAS (£ 65.000, EPSRC)
2002-2005 Semantic Webs and Agents in integrated Economies (110.000 €, EU Project)
since 2007 Argumentation and Agents (20.000 €, Ger.-Arg. Project)

Teaching (International):

1998 Knowledge Representation and Logic Programming (March/April)
 Universidad Nacional del Sur, Bahia Blanca, Argentina
1999 Algorithms and Datastructures CMS351 (Spring Semester),
 University of Maryland at College Park, USA
2000 Multi-Agent Reasoning, (Sept/Oct.),
 Universidad Nacional del Sur, Bahia Blanca, Argentina
2001 Heterogenous Agents, (Oct. 2001), Ushuaia, Argentina
2002 CS3172 Advanced Algorithms, University of Manchester, UK
2002 Programming Multi-Agent Systems, (Aug. 5-16)
 European Summer School in Logic Language and Information, Trento, Italy
2003 CS616 Knowledge Representation and Reasoning
 University of Manchester, UK
2003 Multi Agent Systems, Planning and Answer Set Programming, (July/August)
 Post Graduate course, The University of New South Wales, Sydney, Australia
2006 Modal Logics for Multi-Agent Systems, (July 17-21)
 European Summer School in Agents, Annecy, France
2007 The Dynamics of Knowledge, (Aug. 10-23)
 European Summer School in Logic Language and Information, Dublin, Ireland

Publications:

total: >200 21 books and invited chapters in books, 46 in Journals,
7 invited tutorials, 51 in refereed conferences
since 1999: 65 18 journal papers (11 in the highest calibre journals)
12 books, 9 special journal issues, 5 invited chapters in books
DBLP count: 113
Citeseer : 3340 (most cited author in the department)

Selected Publications (2001–2007): (LP, Agent Systems, Planning)

W. Jamroga and J. Dix (2008):

Model Checking Strategic Abilities of Agents.

Theory of Computing Systems, 42(3)*366–410.

T. Behrens and J. Dix (2008):

Model Checking Multiagent Systems with Logic Based Petri Nets.

Annals of Math and AI, to appear.

J. Dix, S. Kraus, VS Subrahmanian (2006):

Heterogenous Temporal Probabilistic Agents.

ACM Transactions of Computational Logic, 7(1)*151–198.

J. Dix, S. Hegner (2006):

Proceedings of the Fourth International Symposium on

Foundations of Information and Knowledge Systems (FOIKS '06)

LNCS 3861, Springer.

R. Bordini, M. Dastani, J. Dix, A. El Fallah Segrouchni (2005):

Programming Multi Agent Systems: Languages, Platforms and Applications

Systems, Artificial Societies and Simulated Organizations, No. 15, Springer.

G. Brewka and J. Dix (2005):

Knowledge Representation with Extended Logic Programs

Handbook of Philosophical Logic (Gabbay/Guenther (Eds.)),

2nd Edition, Volume 12, Chapter 1, 1–85.

J. Dix, S. Brass, T. Przymusiński (2004):

Super Logic Programs.

ACM Transactions of Computational Logic, 5(1)*126–179.

J. Dix, C. Chesnevar, F. Stolzenburg, G. Simari (2002):

Relating Defeasible and Normal Logic Programming

through Transformation Properties.

Theoretical Computer Science, 290(1)*499–529.

J. Dix, K. Schlechta (2002):

Explaining Updates by minimal Sums

Theoretical Computer Science, 266(1-2)*819–838.

J. Dix, S. Kraus, VS Subrahmanian (2001):

Temporal Agent Reasoning.

Artificial Intelligence, 127(1)*87–135.

PhD Students (13)

Supervised Students (8)

1. Wenjin Lu: *Nonmonotonic Reasoning based on Minimal Models and its Implementation*, University of Koblenz (Germany), 1998.
2. Yingqian Zhang: *Making multiagent systems more reliable* The University of Manchester (United Kingdom), 2005.
3. Frank Stamm: *Verifikation von Java-Card*, Clausthal University of Technology (Germany), 2005.
4. Andreas Brüning: *Kontinuierliche und multi-distributive Erweiterungen von Estimation of Distribution Algorithms*, Clausthal University of Technology (Germany), 2006.
5. Juan Acosta Guadarrama: *A Language for Beliefs and Knowledge Representation*, Clausthal University of Technology (Germany), expected in 2008.
6. Peter Novak: *NN*, Clausthal University of Technology (Germany), expected in 2008.
7. Nils Bulling: *NN*, Clausthal University of Technology (Germany), expected in 2010.
8. Tristan Behrens: *NN*, Clausthal University of Technology (Germany), expected in 2010.

External Examiner (5)

1. Yong Hu: *Declarative Semantics for Logic Programming*, The University of Alberta, Edmonton (Canada), 1994.
2. Pablo Fillotrani: *Semantics for negation in extended logic programs*, Universidad Nacional del Sur, Bahia Blanca (Argentina), 2001.
3. Ioannis Xanthakos: *Semantic Integration of Information by Abduction*, Imperial College, London (UK), 2003.
4. Arianna Tocchio: *Intelligent Agents in Computational Logic* University d'Aquila (Italy), 2005.
5. Owen Cliffe: *Specifying and Analysing Institutions in Multi-Agent Systems using Answer Set Programming*, University of Bath (UK), 2006.