Curriculum Vitae

Personal information

Name	Jasper K. Berendsen
Title	MSc (ir.)
City	Nijmegen, the Netherlands
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Gender	Male
Date of birth, place	December 20th 1980 Hengelo
Nationality	Dutch
Driving license	B (normal personal car)

Education

2006-now	**PhD candidate** (promovendus) Model Based System Development, Computing Science Department, Radboud University Nijmegen. Expected date to complete thesis: March 2010. Research on composition and combinations of quantitative model checking. Teaching the courses: Testing Techniques (2x), Applied Logic (3x).
2008	Course on didactics, 80 hours.
2007	IPA Basic Course on Algorithms & Complexity, 1 week.
1999-2005	**Computer Science, University of Twente, Enschede.** Direction: Formal Methods and Tools. Graduated in April 2006. Thesis mark: 9. **Main interests:** correctness of software, model checking, formal methods, embedded systems, tools for software engineering. **Next to the standard courses :** (among others) structure of programming languages, complexity theory, advanced logics, design of digital systems, testing techniques, parallel processes, numerical mathematics, protocol engineering, model checking
1993-1999	High school. VWO, Atheneum, Twickel college Hengelo. Graduated with the courses: Dutch, English, mathematics A, mathematics B, physics, chemistry, economics 1, geology.

Skills

Languages	English: fluent in speech and writing, German: reasonable, French: very little
Applications	MS office, latex, Linux, Matlab, Maple
Programming	C/C++, Java, Python, HTML, DirectX, functional programming, Flash action script, VHDL, Assembler, Prolog, SDL
Experience	Development of Fortuna tool in C++ 1 year, formal modelling, model checking, LP solvers, theorem proving, theoretical computer science research

Jobs and voluntary work

2006-now	PhD position Radboud University Nijmegen, see above.
2004-2005	**Internship** at IDgis, a software company specialized in geographical information, building an editor for geographic information.
2003-2005	Member of technical committee of sport club: "Drienerlose breedtesportvereninging de Stretchers".
2000-2002	**Promotion assistant** on promotional days for future students, first by doing basic jobs, later by presenting the result of our Design Project: Virtual Aquarium.
2000-2001	**Student assistant at university** during practical sessions of the functional programming course.
1996-2001	Various jobs: parking assistant, store house, factory, super market

Scientific publications

1. J. Berendsen, D. N. Jansen, J. Schmaltz, and F.W. Vaandrager. The Axiomatization of Overriding and Update. To appear in Journal of Applied Logic.
2. J. Berendsen, D. N. Jansen, and F.W. Vaandrager. Fortuna: Model Checking Priced Probabilistic Timed Automata. Technical Report, ICIS, Radboud University Nijmegen, 2009. A paper version has been submitted to CAV 2010.
3. J. Berendsen, Taolue Chen, and D. N. Jansen. Undecidability of Cost-Bounded Reachability in Priced Probabilistic Timed Automata. In J. Chen and S. B. Cooper, editors. Proceedings of The 6th Annual Conference on Theory and Applications of Models of Computation TAMC'09, Changsha, China, May 18-22, 2009. LNCS 5532, Springer, 2009.
4. J. Berendsen, B. Gebremichael, F.W. Vaandrager, and Miaomiao Zhang. Formal Specification and Analysis of Zeroconf using Uppaal. To appear in ACM TECS.
5. J. Berendsen and F.W. Vaandrager. Compositional Abstraction in Real-Time Model Checking. In F. Cassez and C. Jard, editors. Proceedings of FORMATS'08, Saint-Malo, France, September 15-17, 2008. LNCS 5215, Springer, 2008.
6. J. Berendsen, D. N. Jansen, and J.-P. Katoen. Probably on Time and within Budget - On Reachability in Priced Probabilistic Timed Automata. In Quantitative Evaluation of Systems (QEST). IEEE CS Press, 2006.

Selection of visited conferences, workshops and summer schools

- Conference on Theory and Applications of Models of Computation TAMC, Changsha, China, May 18-22, 2009. **Presenting our work.**
- European Joint Conference on Theory and Practice of Software ETAPS, Budapest, Hungary, March 29 - April 6, 2008. **Presenting our work.**
- Conference on Formal Modelling and Analysis of Timed Systems FORMATS, Saint-Malo, France, September 15-17, 2008. **Presenting our work.**
- Workshop Two Decades of Probabilistic Verification - Reflections and Perspectives, Leiden, the Netherlands, November 12-16, 2007. **Presenting our work.**
- LASER Summer School on Software Engineering, Elba, Italy, September 9-15, 2007.
- Summer School Marktoberdorf, Marktoberdorf , Germany, July 31 - August 12, 2007.
- Conference on Quantitative Evaluation of Systems QEST, Riverside, California, September 11-14, 2006. **Presenting our work.**
- Modelling and Verifying Parallel Processes MOVEP, Bordeaux, France, 19-23 June 2006.

Other interests

Sports: uni-hockey, soccer, in-line skating, running. Further interest in board games, films, music, fantasy, politics and economics.