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- [2002-006] Kalyani Munasinghe. *On Using Mobile Agents for Load Balancing in High Performance Computing*. Licentiate thesis, Department of Information Technology, Uppsala University, June 2002.
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- [2000-009] Jan Nyström. *A formalisation of the ITU-T Intelligent Network standard*. Licentiate thesis, Department of Information Technology, Uppsala University, December 2000.
- [2000-008] Marcus Nilsson. *Regular Model Checking*. Licentiate thesis, Department of Information Technology, Uppsala University, December 2000.
- [2000-007] Magnus Larsson. *Applying Configuration Management Techniques to Component-Based Systems*. Licentiate thesis, Department of Information Technology, Uppsala University, December 2000. Also published as report MRTC 00/24 at Mälardalens högskola.
- [2000-006] Gustaf Naeser. *A Flexible Framework for Detection of Feature Interactions in Telecommunication Systems*. Licentiate thesis, Department of Information Technology, Uppsala University, October 2000.
- [2000-005] Fredrik Edelvik. *Finite Volume Solvers for the Maxwell Equations in Time Domain*. Licentiate thesis, Department of Information Technology, Uppsala University, October 2000.
- [2000-004] Anders Wall. *A Formal Approach to Analysis of Software Architectures for Real-Time Systems*. Licentiate thesis, Department of Information Technology, Uppsala University, September 2000. Also published as report MRTC 00/21 at Mälardalens högskola.
- [2000-003] Fredrik Larsson. *Efficient Implementation of Model-Checkers for Networks of Timed Automata*. Licentiate thesis, Department of Information Technology, Uppsala University, May 2000.
- [2000-002] Susanne Remle. *Modeling and Parameter Estimation of the Diffusion Equation*. Licentiate thesis, Department of Information Technology, Uppsala University, May 2000.
- [2000-001] Katarina Boman. *Low-Angle Estimation: Models, Methods and Bounds*. Licentiate thesis, Department of Information Technology, Uppsala University, February 2000.