



Assistant of Prof. Hassan Rajaei in parallel and distributed discrete event simulation. Responsible for designing and implementing a Time Warp engine and for building a Linux cluster to test and develop parallel applications. Lab consulting for undergraduate students.

*Network Administrator*

Salzburg

Administer the network, install cables, and help new students.

**Studentenheim Leonardo**

**2002 – 2003**

*Mandatory Military Service*

Landeck

Eight months mandatory service in the Austrian army.

**Österreichs Bundesheer**

**1999 – 2000**

PEER REVIEWED  
PUBLICATIONS

- [1] H. Röck, J. Auerbach, D.F. Bacon, and C.M. Kirsch. Avoiding unbounded priority inversion in barrier protocols using gang priority management. In *Proc. International Workshop on Java Technologies for Real-time and Embedded Systems (JTRES)*, 2009.
- [2] S.S. Craciunas, C.M. Kirsch, H. Payer, H. Röck, and A. Sokolova. Programmable temporal isolation through variable-bandwidth servers. In *Proc. IEEE Symposium on Industrial Embedded Systems (SIES)*, 2009.
- [3] S.S. Craciunas, C.M. Kirsch, H. Payer, H. Röck, and A. Sokolova. Programmable temporal isolation in real-time and embedded execution environments. In *Proc. Workshop on Isolation and Integration in Embedded Systems (IIES)*, 2009.
- [4] J. Auerbach, D.F. Bacon, D. Iercan, C.M. Kirsch, V.T. Rajan, H. Röck, and R. Trummer. Low-latency time-portable real-time programming with Exotasks. *ACM Transactions on Embedded Computing Systems (TECS)*, 8(2):1–48, 2009.
- [5] S.S. Craciunas, C.M. Kirsch, and H. Röck. I/O Resource management through system call scheduling. *ACM Operating Systems Review (OSR), Special Issue on Research and Developments in the Linux Kernel*, July 2008.
- [6] S.S. Craciunas, C.M. Kirsch, H. Röck, and R. Trummer. The JAviator: A high-payload quadrotor UAV with high-level programming capabilities. In *Proc. AIAA Guidance, Navigation and Control Conference and Exhibit (GNC)*, 2008.
- [7] J. Auerbach, D.F. Bacon, D. Iercan, C.M. Kirsch, V.T. Rajan, H. Röck, and R. Trummer. Java takes flight: Time-portable real-time programming with Exotasks. In *Proc. ACM SIGPLAN/SIGBED Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES)*. ACM Press, 2007.
- [8] M. Ehammer, H. Rajaei, and H. Röck. Bgtw: A clustered-based distributed simulation platform. In *Proc. SCS International Conference on Modeling and Simulation - Methodology, Tools, Software Applications*, 2006.
- [9] K. Entacher, G. Laimer, H. Röck, and A. Uhl. Normalization of the spectral test in high dimensions. *Monte Carlo Methods and Applications*, 10(3-4):265–272, 2004.

OTHER  
PUBLICATIONS

- S. S. Craciunas, C. M. Kirsch and H. Röck. Shaping Process Semantics. Technical Report 2007-01, Department of Computer Sciences, University of Salzburg, April 2007.
- C. M. Kirsch and H. Röck. Shaping Process Semantics [Extended Abstract]. *Monterey Workshop*, 2006.

- C. M. Kirsch and H. Röck. Traffic shaping system calls using threading by appointment. Technical Report T009, Department of Computer Science, University of Salzburg, August 2005.
- Harald Röck. The TAP System: Concurrent Programming with Threading by Appointment. Master Thesis, Department of Computer Sciences, University Salzburg, June 2006.

CONFERENCE  
REFEREE

- 2010, 2007, 2006 EuroSys, ACM SIGOPS/EuroSys European Conference on Computer Systems
- 2009, 2008 EMSOFT, ACM International Conference on Embedded Software
- 2009, 2008 DATE
- 2008, 2006, 2005 LCTES, ACM SIGPLAN Conference on Languages, Compilers and Tools for Embedded Systems
- 2008 RTAS, Real-Time and Embedded Technology and Applications Symposium
- 2007 COORD, International Conference on Coordination Models and Languages
- 2006 ICSOFT, International Conference on Software and Data Technologies
- 2006 JMLC, Joint Modular Languages Conference
- 2005 OOPSLA, ACM Conference on Object-Oriented Programming, Systems, Languages and Applications
- 2005 VEE, ACM/USENIX Conference on Virtual Execution Environments

REFERENCES

- David F. Bacon, Research Staff Member,  
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