Martin Aigner

Research Interests

- Systems performance analysis
- Memory management
- Multi-core architecture and programming
- Runtime and execution environments

Education

Since 2012	**PhD Student**, *University of Salzburg*, Salzburg, Austria. Department of Computer Sciences
Supervisor	Prof. Christoph Kirsch
2010-2012	**Dipl.-Ing. (equiv. M.Sc.)**, *University of Salzburg*, Salzburg, Austria. Department of Computer Sciences; graduation with distinction
Supervisor	Prof. Christoph Kirsch
2011	**Visiting Student**, *ETH Zurich*, Zurich, Switzerland. Department of Computer Science
2006-2010	**B.Eng.**, *University of Salzburg*, Salzburg, Austria. Department of Computer Sciences

Experience

Teaching

2014	**Lecturer**, *Advanced Operating Systems*.
2013,2014	**Teaching Assistant**, *Introduction to Compiler Construction*.

Vocational

Since 2012	**Research assistant**, *University of Salzburg*, Salzburg, Austria. Department of Computer Sciences
2003-2011	**Software Developer**, *Austrian Red Cross*, Salzburg, Austria. Business software and database systems
2002	**Internship**, *Wüstenrot AG*, Salzburg, Austria. Network and system administration

References

- Christoph Kirsch, Professor
  University of Salzburg, Department of Computer Sciences, Austria
- Armin Biere, Professor
  Johannes Kepler University, Institute for Formal Models and Verification, Austria
- Hannes Payer
  Google, Inc., Munich

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Conference and Journal Referee

2014	EUROSYS, FORTE, RTAS, RTSS
2013	EMSOFT
2012	ICCAD, MEMOCODE
2011	DAC, DATE, ICCAD, RTSS
2010	EMSOFT

Publications

Conference papers

M. Aigner, T. Hütter, C. M. Kirsch, A. Miller, H. Payer, and M. Preishuber. ACDC-JS: Explorative Benchmarking of JavaScript Memory Management. In *Proc. Dynamic Languages Symposium*, DLS '14. ACM, October 2014.

M. Aigner, A. Biere, C.M. Kirsch, A. Niemetz, and M. Preiner. Analysis of portfolio-style parallel SAT solving on current multi-core architectures. In *Proc. Workshop on Pragmatics of SAT (PoS)*, EPiC. EasyChair, July 2013.

M. Aigner and C. M. Kirsch. ACDC: Towards a Universal Mutator for Benchmarking Heap Management Systems. In *Proc. International Symposium on Memory Management*, ISMM '13, pages 75–84. ACM, June 2013.

M. Aigner, A. Haas, C.M. Kirsch, M. Lippautz, A. Sokolova, S. Stroka, and A. Unterweger. Short-term Memory for Self-collecting Mutators. In *Proc. International Symposium on Memory Management*, ISMM '11, pages 99–108. ACM, June 2011.

Thesis

Martin Aigner. Short-term Memory for the C Programming Language. Master's thesis, University of Salzburg, 2012.

Others

Martin Aigner, Andreas Haas, Christoph M. Kirsch, and Ana Sokolova. Short-term Memory for Self-collecting Mutators - Revised Version. Technical Report TR 2010–06, University of Salzburg, June 2010.

Martin Aigner, Andreas Haas, Christoph M. Kirsch, Hannes Payer, Andreas Schönegger, and Ana Sokolova. Short-term Memory for Self-collecting Mutators. Technical Report TR 2010–03, University of Salzburg, March 2010.

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