

Curriculum Vitae

Jens Svalgaard Kohrt

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Personal Data

Born: December 31, 1974, Esbjerg, Denmark. Citizenship: Danish.

Marital status: Married to Christine Svalgaard Kohrt.

Former name: Jens Svalgaard Frederiksen (before August 2003).

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Positions

August 2009 to present

Academic IT Staff, CP3-Origins and Dept. of Mathematics and Computer Science, University of Southern Denmark, Odense.

November 2008 to July 2009

IT Consultant, Theilgaard Mortensen, Copenhagen. Systems developer, IBM Websphere Commerce.

September 2004 to October 2008

Post Doc, Dept. of Math. and CS, University of Southern Denmark, Odense. Part of the position involved collaboration with industry partners on efficient algorithmic solutions of real-life problems.

August 2002 to February 2003

Visiting Research Associate, visiting Kirk Pruhs, University of Pittsburgh, Pittsburgh, PA, USA.

Degrees

Ph.D., Computer Science, November 2004.

Dept. of Math. and CS, University of Southern Denmark, Odense.

Thesis: *Online Algorithms under New Assumptions*.

Advisor: Kim S. Larsen.

Members of Ph.D. committee: Joan Boyar, Jens Clausen, and Gerhard J. Woeginger.

M.S., Computer Science, August 2002.

Dept. of Math. and CS, University of Southern Denmark, Odense.

Thesis: *Two Online Problems Under New Assumptions*.

B.S., Computer Science, August 2000.

Dept. of Math. and CS, University of Southern Denmark, Odense.

Project title: *A Sublogarithmic Space-Efficient Dynamic Neighbor Search Structure*.

Grants

Ph.D. fellowship from the Faculty of Science and Engineering, University of Southern Denmark, DKK 700,000 plus tuition, 2000-2004.

Participant in rammebevilling from the Danish Natural Science Research Council on *Algorithmics*, DKK 480,000, 2005-2007.

Participant in rammebevilling from the Danish Natural Science Research Council on Fundamental Problems in Online, String, and Wireless Network Algorithms, DKK 900,000, 2008-2010.

Teaching Experience

December 2006, Assistant Lecturers Teacher-Training Certificate (Adjunkt-pædagogikum) at the University of Southern Denmark.

Courses taught: Concurrent Programming (Spring 2007). Discrete Structures (Fall 2006). Discrete Mathematics and Applications (Fall 2005 and Fall 2004). Operating Systems (Spring 2005).

Publications

Peer Reviewed International Journal Papers

- Martin R. Ehmsen, Jens S. Kohrt, and Kim S. Larsen. List factoring and relative worst order analysis. *Algorithmica*, 2012. Accepted for publication.
- Joan Boyar, Martin R. Ehmsen, Jens S. Kohrt, and Kim S. Larsen. A theoretical comparison of LRU and LRU-K. *Acta Informatica*, 47(7–8):359–374, 2010.
- Martin R. Ehmsen, Lene M. Favrholdt, Jens S. Kohrt, and Rodica Mihal. Comparing first-fit and next-fit for online edge coloring. *Theoretical Computer Science*, 411:1734–1741, 2010.
- Leah Epstein, Lene M. Favrholdt, and Jens S. Kohrt. Comparing online algorithms for bin packing problems. *Journal of Scheduling*, 2009.
- Leah Epstein, Lene M. Favrholdt, and Jens S. Kohrt. Separating online scheduling algorithms with the relative worst order ratio. *Journal of Combinatorial Optimization*, 12(4):362–385, 2006.
- Joan Boyar, Leah Epstein, Lene M. Favrholdt, Jens S. Kohrt, Kim S. Larsen, Morten Monrad Pedersen, and Sanne Wøhlk. The maximum resource bin packing problem. *Theoretical Computer Science*, 362:127–139, 2006.
- Jens S. Kohrt and Kim S. Larsen. On-line seat reservations via off-line seating arrangements. *International Journal of Foundations of Computer Science*, 16(2):381–397, April 2005.
- Jens S. Frederiksen, Kim S. Larsen, John Noga, and Patchrawat Uthaisombut. Dynamic TCP acknowledgment in the LogP model. *Journal of Algorithms*, 48(2):407–428, September 2003.

Peer Reviewed International Conference Papers

- Martin R. Ehmsen, Jens S. Kohrt, and Kim S. Larsen. List factoring and relative worst order analysis. In *Proceedings of 8th International Workshop on Approximation and Online Algorithms (WAOA 2010)*, volume 6534 of *Lecture Notes in Computer Science*, pages 118–129. Springer-Verlag, 2011.
- Martin R. Ehmsen, Lene M. Favrholdt, Jens S. Kohrt, and Rodica Mihal. Comparing first-fit and next-fit for online edge coloring. In *Proceedings of the 19th International Symposium on Algorithms and Computation (ISAAC 2008)*, volume 2368 of *Lecture Notes in Computer Science*, pages 89–99. Springer-Verlag, 2008.
- Jens S. Kohrt and Kirk Pruhs. A constant approximation algorithm for sorting buffers. In *Proceedings of the Sixth Latin American Symposium (LATIN 2004)*, volume 2976 of *Lecture Notes in Computer Science*, pages 193–202. Springer-Verlag, 2004.
- Jens S. Frederiksen and Kim S. Larsen. Packet bundling. In *Proceedings of the Eighth Scandinavian Workshop on Algorithm Theory (SWAT 2002)*, volume 2368 of *Lecture Notes in Computer Science*, pages 328–337. Springer-Verlag, 2002.

Ph.D. Thesis

- Jens Svalgaard Kohrt. *Online Algorithms under New Assumptions*. PhD thesis, Department of Mathematics and Computer Science, University of Southern Denmark, Odense, Denmark, 2004.