

Christian Sloper

Curriculum Vitae
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Personal Data

- Born October 11, 1977 in Bergen, Norway

Education

- University of Bergen, 2002-2006
PhD in Computer Science
- University of Bergen, Norway 1999-2001
Master (Cand. Scient.) in Computer Science
- Bergen College (Høyskolen i Bergen), Bergen, Norway 1997-2000
Bachelor of Science (Høyskoleingeniør), Computer Engineering
- Letter of Workmanship (Fagbrev), Electronic Maintenance and Repairs, Norway 1997

Academic Employment

- Research Fellow, University of Bergen, June 2005 - February 2006
- Research Fellow, Charles University, October 2004 - June 2005
- Research Fellow, University of Bergen, October 2003 - September 2004
- Research Fellow, University of Newcastle, Australia, September 2002 - September 2003
- Research Fellow, University of Bergen, January 2002 - September 2002
- Research Assistant, University of Bergen, Nov-Dec 2001
- Teaching Assistant, Computational Models (Datamaskinteorii), 2001

Professional Employment

- Senior Consultant, Webstep, August 2006 -
Business Intelligence
- Developer, SenneCom AS, September 2000 - March 2001
Developing software for customer-surveillance in stores.
- Developer, Viking Software AS, October 1998 - January 2001
Developing software designed to aid the physically impaired.

Grants

- 3-year Phd. grant from “Norsk forskningsråd” (Norwegian research council)
- “Meltzer’s Høyskolefond” for “specially gifted students”, 2001
- “Bergen College Best Student Award” for students in class of 2000.
- “Statråd Lehmkuuls stipend” for “ specially gifted student in a field of practical use to Norwegian commerce”, 2000

Journal Articles

- Christian Sloper and Jan Arne Telle. ‘Towards a taxonomy of techniques for designing parameterized algorithms’. *invited to a special issue of The Computer Journal, to appear*
- Elena Prieto and Christian Sloper. ‘Reducing to Independent Set Structure – the Case of k-Internal Spanning tree’. *Nordic Journal of Computing*, vol 12, nr 3, pp. 308-318, 2005.
- Elena Prieto, Christian Sloper. ‘Looking at the Stars’. *Theoretical Computer Science*, vol 351, pp. 437-445, 2006.
- Christian Sloper. ‘Eccentric Coloring of Trees’. *Australasian Journal of Combinatorics*, vol. 29, pp. 309-322, 2004.
- Marc Bezem, Tore Langholm, and Christian Sloper. ‘Reverse Engineering of Formal Languages using Testsets’, *Grammars 7(special issue)*, pp. 111-123, 2004.

Conference Papers

- Christian Sloper and Jan Arne Telle. ‘Towards a Taxonomy of Techniques for Designing Parameterized Algorithms’. *Proceedings of International Workshop on Parameterized and Exact Computation 2006, IWPEC06*, LNCS vol 4169.
- Daniel Lokshtanov and Christian Sloper. ‘Fixed Parameter Set Splitting, Linear Kernel and Improved Running Time’. *Proceedings of Algorithms and Complexity In Durham 2005, ACID05*, Text in Algorithms, vol 4, pp. 105-114, 2005.
- Elena Prieto and Christian Sloper. ‘Looking at the Stars’. *Proceedings of International Workshop of Parameterized and Exact Computation 2004(IWPEC04) , Lecture Notes in Computer Science (LNCS)*, vol. 3162, pp. 138-149, 2004.

- Mike Fellows, Pinar Heggernes, Frances Rosamond, Christian Sloper and Jan Arne Telle. 'Exact algorithms for finding k disjoint triangles in an arbitrary graph'. *Proceedings WG'04 - 30th Workshop on Graph Theoretic Concepts in Computer Science (WG 2004), Lecture Notes in Computer Science*, vol. 3353, pp. 235-244, 2004.
- Elena Prieto, Christian Sloper. 'Either/Or: Using Vertex Cover Structure in designing FPT-algorithms - the case of k -Internal Spanning Tree', *Proceedings of Workshop on Algorithms and Data Structures 2004 (WADS 04), Lecture Notes in Computer Science*, vol. 2748, pp. 465-483, 2004.
- Carlos Cotta, Pablo Moscato, Christian Sloper. 'Evolutionary search of thresholds for robust feature set selection: application to the analysis of microarray data'. *Applications of Evolutionary Computing, G. Raidl et al. (eds.), Lecture Notes in Computer Science 3005*, pp. 21-30, 2004.

Technical Reports

- 'Broadcast-coloring in trees', TR 232, 2002, University of Bergen
- 'Exact algorithms for finding k disjoint triangles in an arbitrary graph', *Mike Fellows, Pinar Heggernes, Frances Rosamond, Christian Sloper, and Jan Arne Telle*, TR 262, January 2004, University of Bergen

Theses

- 'Techniques in Parameterized Algorithm Design', PhD Thesis, 2006.
- 'Parameterized complexity and the method of testsets.', Master Thesis, 2001.

Invited talks

- 'Crown Reductions - A powerful pre-processing tool', Newcastle Oct03.
- 'Parameterized Complexity - An Introduction', University of Durham Jan05.
- 'Google and search engines on the web', (norwegian), Culture Night 2006, Bergen
- 'How google works', (norwegian), University of Bergen, Technical division, 2007.
- 'Ants and algorithms inspired by nature', (norwegian), Webstep annual meeting, 2007.

Contributed talks

- 'Fixed Parameter Complexity on Sigma-Rho Problems', WG2002 satellite
- 'Broadcast-colorings in trees', ACCMCC 2002

Referee

- Referee for Scandinavian Workshop on Algorithms Theory 2002.

Programming Achievements

- Honorable Mention at ACM Programming Contest Northwest European Final 2001.(Coach)
- Second Place ACM Programming Contest at Bergen University 2000.
- Winner of ACM Programming Contest at Bergen University 1999.
- Honorable Mention at ACM Programming Contest Northwest European Final 1999.