

# Serge Gaspers

## Curriculum Vitae

School of Computer Science  
and Engineering  
UNSW Sydney  
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### Academic positions and roles

#### UNSW Sydney

**School of Computer Science and Engineering, UNSW Sydney (The University of New South Wales)**, Sydney, Australia

I am heading the **Algorithms group**, I am a member of the Artificial Intelligence group, the Agora Centre for Market Design, and the Centre on Impact of AI and Robotics.

Jan 2018 –

**Associate Head of School (Research)**

Jan 2018 –

**Associate Professor**

Jun 2015 – May 2019

**ARC Future Fellow**

Jul 2014 – Dec 2017

Senior Lecturer

Jun 2012 – May 2015

ARC DECRA Fellow

#### Data61

**Algorithmic Decision Theory group, Decision Sciences, Data61, CSIRO**, Sydney, Australia  
**UNSW contributed staff**

Jul 2016 –

#### NICTA

**Algorithmic Decision Theory group, Optimisation Research Group, National ICT Australia (NICTA)**, Sydney, Australia

Jul 2014 – Jun 2016

Senior Researcher (UNSW contributed)

Jul 2012 – Jun 2014

Researcher (UNSW contributed)

#### TU Wien

**Institut für Informationssysteme, Technische Universität Wien**, Vienna, Austria

Oct 2010 – May 2012

Postdoctoral researcher

#### U Chile

**Centro de Modelamiento Matemático, Universidad de Chile**, Santiago, Chile

Sep 2009 – Sep 2010

Postdoctoral researcher

#### U Montpellier 2

**Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier (LIRMM), Université Montpellier 2, CNRS**, Montpellier, France

Jan 2009 – Aug 2009

Postdoctoral researcher

#### Penn State

**Department of Computer Science and Engineering, The Pennsylvania State University**, University Park, Pennsylvania, USA

Nov 2007 – Dec 2007

Visiting Scholar, hosted by Martin Fürer

#### Dalhousie

**Department of Mathematics & Statistics, Dalhousie University**, Halifax, Nova Scotia, Canada

Sep 2007 – Nov 2007

Visiting Researcher, hosted by Richard J. Nowakowski

#### IBM Watson

**Department of Mathematical Sciences, IBM T.J. Watson Research Center**, Yorktown, New York, USA

Jul 2007 – Sep 2007

Visiting Researcher, hosted by Gregory B. Sorkin

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## Education

- U Bergen** **Institutt for Informatikk, Universitetet i Bergen**, Bergen, Norway  
2006 – 2008 PhD in Computer Science, “Exponential Time Algorithms: Structures, Measures, and Bounds” supervised by Fedor V. Fomin.
- U Lorraine** **Université Paul Verlaine - Metz (now: Université de Lorraine)**, Metz, France  
2004 – 2005 Diplôme d'Etudes Approfondies Informatique de Lorraine, Master thesis “Algorithmes exponentiels” supervised by Dieter Kratsch.  
2003 – 2004 Maîtrise Informatique  
2002 – 2003 Licence Informatique
- U Luxembourg** **Centre Universitaire de Luxembourg (now: University of Luxembourg)**, Luxembourg, Luxembourg  
2000 – 2002 Diplôme Universitaire de Technologie en Informatique

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## Research Interests

- Algorithms, Complexity combinatorial optimization, exponential time algorithms, parameterized complexity  
Combinatorics extremal combinatorics, graph classes, graph decompositions, graph searching, width parameters  
Satisfiability, Constraints backdoors, (local) consistency, global constraints, propagation  
Applications algorithmic game theory, computational social choice, resource allocation, preprocessing, scheduling

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## Selected Awards and Grants

- 2017 UNSW Deputy Vice-Chancellor (Research) Future Fellowship support, A\$ 70,000.  
2016 Data61, CSIRO / UNSW Collaborative Research Project on the Computational Complexity of Resource Allocation Problems (with Toby Walsh and Haris Aziz), A\$ 198,847 (2016 – 2018)  
2016 UNSW Deputy Vice-Chancellor (Research) Future Fellowship support, A\$ 70,000.  
2015 UNSW School of Computer Science & Engineering Future Fellowship support, A\$ 20,000.  
2014 Discovery Project from the Australian Research Council for the project DP150101134 “Local reoptimization for turbocharging heuristics” (with Joachim Gudmundsson, Michael R Fellows, Julian Mestre, and Fedor Fomin), A\$ 355,100 (2015–2017)  
2014 Future Fellowship from the Australian Research Council for the project FT140100048 “Algorithms for hard graph problems based on auxiliary data”, A\$ 711,489 (2014–2018)  
2013 IJCAI 2013 Most Educational Video Award  
2012 NICTA / UNSW Collaborative Research Project on the Computational Complexity of Resource Allocation Problems (with Toby Walsh), A\$ 379,038 (2012 – 2016)  
2012 Discovery Early Career Researcher Award (DECRA) from the Australian Research Council for the project DE120101761 “Solving intractable problems: from practice to theory and back”, A\$ 375,000 (2012–2014)  
2012 Vice-Chancellor’s Postdoctoral Research Fellowship at UNSW Australia (declined to take up the DECRA instead)

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## Participation in Schools and Workshops (selection)

- Dagstuhl Dagstuhl Seminar 18421 on Algorithmic Enumeration: Output-sensitive, Input-Sensitive, Parameterized, Approximative. Schloss Dagstuhl, Germany, October 14–19, 2018.  
Dagstuhl Seminar 16232 on Fair Division. Schloss Dagstuhl, Germany, June 5–10, 2016.  
Dagstuhl Seminar 15301 on The Constraint Satisfaction Problem: Complexity and Approximability. Schloss Dagstuhl, Germany, July 19–24, 2015.  
Dagstuhl Seminar 14451 on Optimality and tight results in parameterized complexity. Schloss Dagstuhl, Germany, November 2–7, 2014.  
Dagstuhl Seminar 13331 on Exponential Algorithms: Algorithms and Complexity Beyond Polynomial Time. Schloss Dagstuhl, Germany, August 11–16, 2013.

Dagstuhl Seminar 12241 on Data Reduction and Problem Kernels. Schloss Dagstuhl, Germany, June 10–15, 2012.

Dagstuhl Seminar 10441 on the Exact Complexity of NP-hard problems. Schloss Dagstuhl, Germany, October 31 – November 5, 2010.

Dagstuhl Seminar 08431 on Moderately Exponential Time Algorithms. Schloss Dagstuhl, Germany, October 19–24, 2008.

Dagstuhl Seminar 07211 on Exact, Approximative, Robust and Certifying Algorithms on Particular Graph Classes. Schloss Dagstuhl, Germany, May 20–25, 2007.

Other NII Shonan Meeting on Logic and Computational Complexity, Shonan Village Center, Japan, September 18–22, 2017.

Simons Workshop on Satisfiability Lower Bounds and Tight Results for Parameterized and Exponential-Time Algorithms, Berkeley, CA, USA, November 2–6, 2015.

WorKer 2015, Workshop on Kernelization, Nordfjordeid, Norway, June 1–4, 2015.

2015 ASL North American Annual Meeting (Association for Symbolic Logic), Urbana, IL, USA, March 25–28, 2015.

Graphs & Decisions 2014, Luxembourg, Luxembourg, October 27–29, 2014.

PCCR 2014, the 2nd Workshop on the Parameterized Complexity of Computational Reasoning, Vienna, Austria, July 17–18, 2014.

Frontiers and Connections between Parametrization and Approximation, Bertinoro, Italy, May 25–30, 2014.

First Symposium on Structure in Hard Combinatorial Problems, Vienna, Austria, May 16–18, 2013.

WorKer 2013, Workshop on Kernelization, Warsaw, Poland, April 10–12, 2013.

36 ACCMCC, the 36th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing, Sydney, Australia, December 10–14, 2012.

WorKer 2011, the 3rd Workshop on Kernelization, Vienna, Austria, September 2–4, 2011.

Treewidth Workshop, Bergen, Norway, May 19–20, 2011.

61. Theorietag, Trier, Germany, February 24–25, 2011.

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## Invited Talks

Invited talks I have given numerous invited talks at Dagstuhl seminars, universities, research centres, and at AAI 2018, the 32nd AAI Conference on Artificial Intelligence, What's Hot session (New Orleans, LA, USA), ADT 2017, the 5th International Conference on Algorithmic Decision Theory, Doctoral Consortium (Luxembourg, 2017), CATS 2017, workshop on Computational & Algorithmic Topology, Sydney (Sydney, Australia, 2017), Computability and Complexity Symposium 2017 (New Zealand, 2017), the Simons Institute Workshop on Satisfiability Lower Bounds and Tight Results for Parameterized and Exponential-Time Algorithms (Berkeley, CA, USA, 2015), WorKer 2015, the 2015 Workshop on Kernelization (Nordfjordeid, Norway, 2015), ASL 2015, the 2015 North American Annual Meeting of the Association for Symbolic Logic (Urbana-Champaign, IL, USA, 2015), Graphs & Decisions (Luxembourg, 2014), and the First Symposium on Structure in Hard Combinatorial Problems (Vienna, Austria, 2013).

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## Teaching

2017s2: COMP6741 **Parameterized and Exact Computation**, UNSW.  
2016s2: COMP6741 **Parameterized and Exact Computation**, UNSW.  
2016s1: COMP3121 **Algorithms and Programming Techniques and COMP3821 Extended Algorithms & Programming Techniques**, UNSW.  
I gave a repeat guest lecture (3 hours) on computational intractability  
2015s2: COMP6741 **Parameterized and Exact Computation**, UNSW.

- 2014s2: COMP6741 **Parameterized and Exact Computation, UNSW.**  
I designed this new course and offer it annually since Semester 2, 2014.
- 2014s1: COMP3121 **Algorithms and Programming Techniques and COMP3821 Extended Algorithms & Programming Techniques, UNSW.**  
I taught two lectures (totalling 3 hours) on computational intractability within this course whose lecturer in charge is Aleksandar Ignjatovic.
- 2013s2: COMP4121 **Advanced and Parallel Algorithms, UNSW.**  
I taught two 3-hour lectures on kernelization within this course whose lecturer in charge is Aleksandar Ignjatovic.
- 2012S: 184.684 **Discrete Reasoning Methods, Vienna University of Technology.**  
I co-taught this Master/PhD level course with Stefan Szeider.
- 2011W: 184.708 **Seminar in Complexity Theory, Vienna University of Technology.**  
I organized this Master/PhD level seminar series together with Stefan Szeider.
- 2010: CC61X **Design and Analysis of Adaptive Algorithms, University of Chile.**  
As a guest lecturer in this course held by J r my Barbay, I introduced parameterized complexity to Master students (4 hours).
- 2008: trial lecture **Trial lecture, University of Bergen.**  
As a requirement for the PhD program, I gave a 1-hour trial lecture on **Data Streaming**. The examiners were Dag Haugland, Daniel Meister, and Igor Semaev.
- 2007: INF339 **Selected topics in Algorithms and Complexity, University of Bergen.**  
I taught one lecture (2 hours) in this Master/PhD level course on permutation graphs and circle graphs.
- 2006: INF339 **Selected topics in Algorithms and Complexity, University of Bergen.**  
I taught one lecture (2 hours) in this Master/PhD level course on Satisfiability algorithms.

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## Supervision

- Postdocs Stefan R mmele, Nov 2015 – Nov 2017  
Shenwei Huang, Sep 2016 – Aug 2017  
Paul Hunter, Oct 2016 – Dec 2016
- PhD students Zhaohong Sun, main supervisor, 2016s2 –  
Edward J. Lee, main supervisor, 2016s1 –  
Hao Chen, co-supervisor, 2015s2 –  
Kamran Najeebullah, main supervisor, 2015s1 –  
Martin Aleksandrov, joint supervisor, 2014s1 –  
Valentin Mayer-Eichberger, co-supervisor, 2013s1 –  
Simon Mackenzie, main supervisor, 2013s2 – 2016s2 (graduated 06/2017)
- Master Benjamin Edser, 2015s2
- Honours Edward J. Lee, 2015  
Alexis Shaw, 2015
- Interns Nidia Obscura Acosta, Nov 2016 – Feb 2017  
Kevin Tran, Taste of Research Summer Scholarship, Nov 2016 – Feb 2017  
Antonin Lambilliotte, Jun – Aug 2016  
Edward J. Lee, Jan – Feb 2016  
Jack (Jing Wu) Lian, Taste of Research Summer Scholarship, Nov 2013 – Feb 2014

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## Service and Community

- PC member I serve(d) on the Program Committees of  
STACS 2019, the 36th International Symposium on Theoretical Aspects of Computer Science,  
KR 2018, the 16th International Conference on Principles of Knowledge Representation and Reasoning,  
IPEC 2018, the 13th International Symposium on Parameterized and Exact Computation,  
IWOCOA 2018, the 29th International Workshop on Combinatorial Algorithms,  
IJCAI 2018 (Senior PC member), the 27th International Joint Conference on Artificial Intelligence,  
AI<sup>3</sup>, the AAMAS-IJCAI workshop on Agents and Incentives in Artificial Intelligence,

SAT 2018, the 21st International Conference on Theory and Applications of Satisfiability Testing,  
 AAMAS 2018 (Senior PC member), the 17th International Conference on Autonomous Agents  
 and Multiagent Systems,  
 SWAT 2018, the 16th Scandinavian Symposium and Workshops on Algorithm Theory,  
 AAI 2018, the 32nd AAI Conference on Artificial Intelligence,  
 SAT 2017 (**PC co-chair**), the 20th International Conference on Theory and Applications of  
 Satisfiability Testing,  
 IJCAI 2017, the 26th International Joint Conference on Artificial Intelligence,  
 IWOCA 2017, the 28th International Workshop on Combinational Algorithms (dedicated to the  
 memory of Mirka Miller),  
 AAMAS 2017, the 16th International Conference on Autonomous Agents and Multiagent  
 Systems,  
 EXPLORE 2017, the 4th Workshop on Exploring Beyond the Worst Case in Computational Social  
 Choice,  
 AAI 2017, the 31st AAI Conference on Artificial Intelligence,  
 ISAAC 2016, the 27th International Symposium on Algorithms and Computation,  
 EXPLORE 2016, the 3rd Workshop on Exploring Beyond the Worst Case in Computational Social  
 Choice,  
 IJCAI 2016, the 25th International Joint Conference on Artificial Intelligence,  
 EXPLORE 2015, the 2nd Workshop on Exploring Beyond the Worst Case in Computational Social  
 Choice,  
 IJCAI 2015, the 24th International Joint Conference on Artificial Intelligence,  
 AAMAS 2015, the 14th International Conference on Autonomous Agents and Multiagent  
 Systems,  
 ECAI 2014, the 21st European Conference on Artificial Intelligence,  
 EXPLORE 2014, the 1st Workshop on Exploring Beyond the Worst Case in Computational Social  
 Choice,  
 IPEC 2013, the 8th International Symposium on Parameterized and Exact Computation,  
 AAI 2013, the 27th AAI Conference on Artificial Intelligence,  
 IJCAI 2013, the 23rd International Joint Conference on Artificial Intelligence, and  
 IPEC 2010, the 5th International Symposium on Parameterized and Exact Computation.

Organization I am/was an organizer of

42ACCMCC, the 42nd Australasian Conference on Combinatorial Mathematics and Combinatorial  
 Computing (2019),  
 SAT 2017 (co-chair), the 20th International Conference on Theory and Applications of Satisfia-  
 bility Testing,  
 SAW 2016, the 2016 Sydney Algorithms Workshop,  
 a special session on parameterized complexity at ASL 2015, the 2015 North American Annual  
 Meeting of the Association for Symbolic Logic (Urbana, Illinois, USA),  
 PCCR 2014, the 2nd Workshop on the Parameterized Complexity of Computational Reasoning  
 (Vienna, Austria), and  
 WorKer 2011, the 3rd Workshop on Kernelization (Vienna, Austria).

I volunteered in the organization and local arrangements of WG 2005 (Metz, France), WG 2006  
 (Bergen, Norway), and WG 2009 (Montpellier, France), the 31st, 32nd, and 35th Workshop on  
 Graph-Theoretic Concepts in Computer Science.

Steering Committees SAT Association (2017 – 2021)

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| Journals         | I have reviewed papers for ACM Transactions on Algorithms, Algorithmica, Annals of Mathematics and Artificial Intelligence, Artificial Intelligence, Artificial Intelligence Review, Discrete Applied Mathematics, Discrete Mathematics, Discrete Mathematics & Theoretical Computer Science, Discrete Optimization, Graphs and Combinatorics, Information and Computation, Information Processing Letters, Integers, International Journal of Computer Mathematics, Journal of Artificial Intelligence Research, Journal of Combinatorial Mathematics and Combinatorial Computing, Journal of Combinatorial Optimization, Journal of Computer and System Sciences, Journal of Discrete Algorithms, Journal on Satisfiability, Boolean Modeling and Computation (JSAT), Mathematical Programming, SIAM Journal on Discrete Mathematics, Theoretical Computer Science, and Theory of Computing Systems. |
| Conferences      | I have reviewed submissions for AAAI, AAMAS, ADT, CIAC, CiE, COCOON, COMSOC, CSR, ECAI, ESA, Eurocomb, EXPLORE, FOCS, ICALP, ICTCS, IJCAI, IPCO, IPEC, ISAAC, IWOCA, LATIN, MFCS, SAT, SoCS, SODA, SOFSEM, STACS, SWAT, TAMC, WADS, and WG.  |
| Grants           | I have reviewed research proposals for the Australian Research Council, the Czech Science Foundation, the Embassy of France in Australia, the French Agence Nationale de la Recherche, and the Research Grants Council of Hong Kong.   |
| Web              | Regular contributions to Theoretical Computer Science - Stack Exchange<br>Occasional contributions to the Parameterized Complexity Community Wiki<br>Occasional contributions to Wikipedia   |
| Newsletter       | I regularly proofread the FPT Newsletter before publication.   |
| Algorithms Group | I created the Algorithms Group at UNSW in November 2013.   |

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## Professional Memberships

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| EATCS  | European Association for Theoretical Computer Science           |
| SIGACT | ACM Special Interest Group on Algorithms and Computation Theory |
| CMSA   | Combinatorial Mathematics Society of Australasia                |
| AFRAN  | Australian-French Association for Research and Innovation       |

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## Languages

|               |                     |
|---------------|---------------------|
| Luxembourgish | <b>Native</b>       |
| German        | <b>Fluent</b>       |
| French        | <b>Fluent</b>       |
| English       | <b>Fluent</b>       |
| Norwegian     | <b>Intermediate</b> |
| Spanish       | <b>Intermediate</b> |

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## Publications

### Books

- [B1] Serge Gaspers. *Exponential time algorithms: structures, measures, and bounds*. VDM Verlag Dr. Mueller e.K., ISBN 978-3-639-21825-1, 216 pages, 2010. (Revised and updated version of my PhD thesis.)

### Edited Books

- [E1] Serge Gaspers and Toby Walsh. *Theory and Applications of Satisfiability Testing - SAT 2017 - 20th International Conference, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings*. Lecture Notes in Computer Science 10491, Springer 2017, ISBN 978-3-319-66262-6.

## Book Chapters

- [BC4] Serge Gaspers, Sebastian Ordyniak, and Stefan Szeider. *Backdoor Sets for CSP*. In Andrei A. Krokhin and Stanislav Zivny (editors), *The Constraint Satisfaction Problem: Complexity and Approximability*, Dagstuhl Follow-Ups 7, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, pages 137–157, 2017.
- [BC3] Serge Gaspers. *Backdoors to SAT*. In Ming-Yang Kao (editor), *Encyclopedia of Algorithms*, Springer, pages 167–170, 2016.
- [BC2] Serge Gaspers and Stefan Szeider. *Backdoors to Satisfaction*. In Hans L. Bodlaender, Rodney G. Downey, Fedor V. Fomin, Dániel Marx (editors), *The Multivariate Algorithmic Revolution and Beyond: Essays Dedicated to Michael R. Fellows on the Occasion of His 60th Birthday*, Springer LNCS 7370, pages 287–317, 2012.
- [BC1] Michael R. Fellows, Serge Gaspers, and Frances A. Rosamond. *Multivariate complexity theory*. Chapter 13 in Edward K. Blum and Alfred V. Aho (editors), *Computer Science: The Hardware, Software and Heart of It*, pages 269–293, Springer, 2011.

## Journal Publications

- [J27] Serge Gaspers and Simon Mackenzie. On the Number of Minimal Separators in Graphs. *Journal of Graph Theory* 87(4): 653–659, 2018 (ERA rank: A).
- [J26] Serge Gaspers and Gregory B. Sorkin. Separate, Measure and Conquer: Faster Algorithms for Max 2-CSP and Counting Dominating Sets. *ACM Transactions on Algorithms* 13(4): 44:1–44:36, 2017 (ERA rank: A).
- [J25] Serge Gaspers, Neeldhara Misra, Sebastian Ordyniak, Stefan Szeider, and Stanislav Zivny. Backdoors into heterogeneous classes of SAT and CSP. *Journal of Computer and System Sciences* 85: 38–56, 2017 (ERA rank: A\*).
- [J24] Serge Gaspers, Sebastian Ordyniak, M. S. Ramanujan, Saket Saurabh, and Stefan Szeider. Backdoors to q-Horn. *Algorithmica* 74(1): 540–557, 2016 (ERA rank: A\*).
- [J23] René van Bevern, Rodney G. Downey, Michael R. Fellows, Serge Gaspers, and Frances A. Rosamond. Myhill-Nerode Methods for Hypergraphs. *Algorithmica* 73(4): 696–729, 2015 (ERA rank: A\*).
- [J22] Serge Gaspers, Mikko Koivisto, Mathieu Liedloff, Sebastian Ordyniak, and Stefan Szeider. On Finding Optimal Polytrees. *Theoretical Computer Science* 592: 49–58, 2015 (ERA rank: A).
- [J21] Haris Aziz, Serge Gaspers, Simon Mackenzie, and Toby Walsh. Fair Assignment of Indivisible Objects Under Ordinal Preferences. *Artificial Intelligence*, 227: 71–92, 2015 (ERA rank: A\*).
- [J20] Fabrizio Frati, Serge Gaspers, Joachim Gudmundsson, and Luke Mathieson. *Augmenting Graphs to Minimize the Diameter*. *Algorithmica*, 72(4): 995–1010, 2015 (ERA rank: A\*).
- [J19] Serge Gaspers, Mathieu Liedloff, Maya J. Stein, and Karol Suchan. Complexity of Splits Reconstruction for Low-Degree Trees. *Discrete Applied Mathematics*, 180: 89–100, 2015 (ERA rank: A).
- [J18] Serge Gaspers and Stefan Szeider. *Guarantees and Limits of Preprocessing in Constraint Satisfaction and Reasoning*. *Artificial Intelligence*, 216: 1–19, 2014 (ERA rank: A\*).

- [J17] Martin Fürer, Serge Gaspers, and Shiva Prasad Kasiviswanathan. *An Exponential Time 2-Approximation Algorithm for Bandwidth*. Theoretical Computer Science, special issue on Exact & Parameterized Computation – Moderately Exponential & Parameterized Approximation, 511: 23–31, 2013 (ERA rank: A).
- [J16] Daniel Binkele-Raible, Henning Fernau, Serge Gaspers, and Mathieu Liedloff. *Exact and Parameterized Algorithms for Max Internal Spanning Tree*. Algorithmica 65(1): 95–128, 2013 (ERA rank: A\*).
- [J15] Fedor V. Fomin, Serge Gaspers, Saket Saurabh, and Stéphan Thomassé. *A linear vertex kernel for Maximum Internal Spanning Tree*. Journal of Computer and System Sciences 79(1): 1–6, 2013 (ERA rank: A\*).
- [J14] Serge Gaspers and Matthias Mnich. *Feedback Vertex Sets in Tournaments*. Journal of Graph Theory 72(1): 72–89, 2013 (ERA rank: A).
- [J13] Serge Gaspers and Mathieu Liedloff. *A Branch-and-Reduce Algorithm for Finding a Minimum Independent Dominating Set*. Discrete Mathematics & Theoretical Computer Science 14(1): 29–42, 2012 (ERA rank: B).
- [J12] Michael R. Fellows, Serge Gaspers, and Frances A. Rosamond. *Parameterizing by the Number of Numbers*. Theory of Computing Systems 50(4): 675–693, 2012 (ERA rank: C).
- [J11] Serge Gaspers, Dieter Kratsch, and Mathieu Liedloff. *On independent sets and bicliques in graphs*. Algorithmica 62(3): 637–658, 2012 (ERA rank: A\*).
- [J10] Serge Gaspers and Gregory B. Sorkin. *A universally fastest algorithm for Max 2-Sat, Max 2-CSP, and everything in between*. Journal of Computer and System Sciences 78(1): 305–335, 2012 (ERA rank: A\*).
- [J9] Stéphane Bessy, Fedor V. Fomin, Serge Gaspers, Christophe Paul, Anthony Perez, Saket Saurabh, and Stéphan Thomassé. *Kernels for Feedback Arc Set in tournaments*. Journal of Computer and System Sciences, 77(6): 1071–1078, 2011 (ERA rank: A\*).
- [J8] Daniel Binkele-Raible, Henning Fernau, Serge Gaspers, and Mathieu Liedloff. *Exact exponential-time algorithms for finding bicliques*. Information Processing Letters, 111(2): 64–67, 2010 (ERA rank: B).
- [J7] Fedor V. Fomin, Serge Gaspers, Petr Golovach, Dieter Kratsch, and Saket Saurabh. *Parameterized algorithm for Eternal Vertex Cover*. Information Processing Letters, 110(16): 702–706, 2010 (ERA rank: B).
- [J6] Serge Gaspers, Margaret-Ellen Messinger, Paweł Prałat, and Richard J. Nowakowski. *Parallel cleaning of a network with brushes*. Discrete Applied Mathematics, 158(5): 467–478, 2010 (ERA rank: A).
- [J5] Fedor V. Fomin, Serge Gaspers, Dieter Kratsch, Mathieu Liedloff, and Saket Saurabh. *Iterative compression and exact algorithms*. Theoretical Computer Science, 411(7–9): 1045–1053, 2010 (ERA rank: A).
- [J4] Serge Gaspers, Dieter Kratsch, Mathieu Liedloff, and Ioan Todinca. *Exponential time algorithms for the Minimum Dominating Set problem on some graph classes*. ACM Transactions on Algorithms, 6(1):9:1–21, 2009 (ERA rank: A).
- [J3] Fedor V. Fomin, Serge Gaspers, Saket Saurabh, and Alexey A. Stepanov. *On two techniques of combining branching and treewidth*. Algorithmica, 54(2): 181–207, 2009 (ERA rank: A\*).



- [J2] Serge Gaspers, Margaret-Ellen Messinger, Richard J. Nowakowski, and Paweł Prałat. *Clean the graph before you draw it!* Information Processing Letters, 109(10): 463–467, 2009 (ERA rank: B).
- [J1] Fedor V. Fomin, Serge Gaspers, Artem V. Pyatkin, and Igor Razgon. *On the Minimum Feedback Vertex Set problem: exact and enumeration algorithms.* Algorithmica, 52(2): 293–307, 2008 (ERA rank: A\*).

### Conference Proceedings

- [C63] Faisal Abu-Khzam, Judith Egan, Serge Gaspers, Alexis Shaw, and Peter Shaw. *Cluster Editing with Vertex Splitting.* Proceedings of the 5th International Symposium on Combinatorial Optimization (ISCO 2018). In press, accepted 02/2018 (CORE rank: n/a).
- [C62] Haris Aziz, Jiayin Chen, Serge Gaspers, and Zhaohong Sun. *Stability and Pareto Optimality in Refugee Allocation Matchings.* Proceedings of the 17th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2018). In press, accepted 01/2018 (CORE rank: A\*).
- [C61] Haris Aziz, Serge Gaspers, Kamran Najeebullah, and Edward J. Lee. *Defender Stackelberg Game with Inverse Geodesic Length as Utility Metric.* Proceedings of the 17th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2018). In press, accepted 01/2018 (CORE rank: A\*).
- [C60] Serge Gaspers, Shenwei Huang, and Daniel Paulusma. *Colouring Square-Free Graphs without Long Induced Paths.* Proceedings of the 35th International Symposium on Theoretical Aspects of Computer Science (STACS 2018). In press, accepted 12/2017 (CORE rank: A).
- [C59] Serge Gaspers, Joachim Gudmundsson, Michael Horton, and Stefan Rümmele. *When is Red-Blue Nonblocker FPT?* Proceedings of the 13th Latin American Theoretical Informatics Symposium (LATIN 2018). In press, accepted 12/2017 (CORE rank: B).
- [C58] Serge Gaspers, Stefan Rümmele, Abdallah Saffidine, and Kevin Tran. *Minesweeper with Limited Moves.* Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI 2018). In press, accepted 11/2017 (CORE rank: A\*).
- [C57] Serge Gaspers, Joachim Gudmundsson, Julian Mestre and Stefan Rümmele. *Barrier Coverage with Non-uniform Lengths to Minimize Aggregate Movements.* Proceedings of the 28th International Symposium on Algorithms and Computation (ISAAC 2017). Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, LIPIcs. In press, accepted 09/2017 (CORE rank: A).
- [C56] Serge Gaspers and Edward J. Lee. *Faster Graph Coloring in Polynomial Space.* Proceedings of the 23rd Annual International Computing and Combinatorics Conference (COCOON 2017). Springer LNCS 10392, pages 371–383, 2017 (CORE rank: A).
- [C55] Haris Aziz, Serge Gaspers, and Kamran Najeebullah. *Weakening Covert Networks by Minimizing Inverse Geodesic Length.* Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI 2017). IJCAI, pages 779-785 (CORE rank: A\*).
- [C54] Serge Gaspers and Shenwei Huang. *Linearly  $\chi$ -Bounding ( $P_6, C_4$ )-Free Graphs.* Proceedings of the 43rd International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2017). In press, accepted 04/2017 (CORE rank: A).
- [C53] Serge Gaspers and Edward J. Lee. *Exact Algorithms via Multivariate Subroutines.* Proceedings of the 44th International Colloquium on Automata, Languages and Programming, Track A (ICALP 2017). Schloss Dagstuhl – Leibniz-Zentrum fuer Informatik, LIPIcs 80, pages 69:1–69:13, 2017 (CORE rank: A).

- [C52] Édouard Bonnet, Serge Gaspers, Antonin Lambilliotte, Stefan Rümmele, and Abdallah Saffidine. *The Parameterized Complexity of Positional Games*. Proceedings of the 44th International Colloquium on Automata, Languages and Programming, Track A (ICALP 2017). Schloss Dagstuhl – Leibniz-Zentrum fuer Informatik, LIPIcs 80, 90:1–90:14, 2017 (CORE rank: A).
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