

# Sven Apel

## Curriculum Vitae

2018-04-11



### Coordinates

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Position: Full Professor

Affiliation: University of Passau  
Department of Informatics and Mathematics  
Innstr. 33, 94032 Passau, Germany

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Office: +49 851 509 3225  
Home: +49 851 756 6642

Citizenship: German  
Town of birth: Osterburg, Germany

Year of birth: 1977  
Marital status: Married, three children

WWW: <http://www.infosun.fim.uni-passau.de/se/apel/>

### Research Interests

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A key vision driving my research is to empower software engineering practice to enter an **era of intensive automation**. I develop and evaluate methods, tools, and theories for the construction of manageable, reliable, efficient, configurable, and evolvable software systems. In particular, I am interested in:

- Software product lines and configurable systems
- Domain-specific generation and optimization
- Software analytics and intelligence
- Empirical methods and the human factor in software engineering

I apply my research results routinely to real-world software systems and projects from different domains, in particular, data-intensive, operating, and high-performance computing systems, both from the open-source realm or in collaborations with partners from industry, such as Siemens AG, Bosch Austria, Airbus Helicopters, and Fraunhofer IESE.

### Education

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Mar. 2003 – Mar. 2007      Doctoral degree in Computer Science (Doktor-Ingenieur),  
University of Magdeburg, Germany,  
Grade “**summa cum laude**” (with distinction)

Oct. 1996 – Jul. 2002      Diploma degree in Computer Science (Diplom-Informatiker),  
University of Magdeburg, Germany, Grade “**A**” (excellent)

### Academic Employment

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since Apr. 2016      Full Professor (tenured since Oct. 2017),  
Chair of Software Engineering I, University of Passau, Germany

Oct. 2013 – Mar. 2016      Full Professor (untenured),  
Chair of Software Product Lines, University of Passau, Germany

Nov. 2010 – Sep. 2013      Leader of the Emmy-Noether Research Group  
“Safe and Efficient Software Product Lines”,  
University of Passau, Germany

Jul. 2012 – Sep. 2012	Visiting Scholar, Hosts: Prof. Joanne Atlee and Prof. Krzysztof Czarnecki, University of Waterloo, Canada
Apr. 2007 – Oct. 2010	Akademischer Rat (Post-Doc), Host: Prof. Christian Lengauer, University of Passau, Germany
Jan. 2006 – Jul. 2006	Visiting Scholar, Host: Prof. Don Batory, University of Texas at Austin, USA
Mar. 2003 – Mar. 2007	Research Assistant, Supervisor: Prof. Gunter Saake, University of Magdeburg, Germany

## Awards and Honors

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Dec. 2016	<b>Hugo Junkers Award</b> for Research and Innovation, awarded by the State of Saxony-Anhalt (Category ‘Innovative Research Alliance’)
Jun. 2015	Appointment to the <b>Young Academy of Europe</b>
May 2015	<b>ACM SIGSOFT Distinguished Paper Award</b> , 37th International Conference on Software Engineering (ICSE)
Mar. 2015	Best Paper Award, 14th International Conference on Modularity
Jan. 2013	<b>Heisenberg Professorship</b> of the German Research Foundation
Aug. 2011	Best Research Paper Award, 15th International Software Product Line Conference (SPLC)
Sep. 2010	<b>Emmy-Noether Fellowship</b> of the German Research Foundation
Feb. 2008	Nominated for the Dissertation Award of the German Computer Science Society
Nov. 2007	<b>Dissertation Award</b> of the University of Magdeburg, endowed by the <b>Karin-Witte Foundation</b>
Sep. 2007	<b>Software-Engineering Award</b> of the <b>Ernst-Denert Foundation</b> for the Best Doctoral Dissertation
Dec. 2006	Award of the School of Computer Science, University of Magdeburg for Outstanding Scientific Achievements

## Research Grants

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- Performance Evolution of Highly Configurable Software Systems (Pervolution), funded by **DFG** (AP 206/11-1): 2017–2020, **290 000 €** of **580 000 €**, with Norbert Siegmund
- Advanced Stencil-Code Engineering (ExaStencils), funded within **DFG Priority Program 1648** (AP 206/7-1&2): 2013–2018, **510 000 €** of **2 500 000 €**, with Christian Lengauer, Ulrich Rde, Jrgen Teich, and Matthias Bolten
- Generation of Correct and Efficient Software based on Product-Line Technology (SafeSPL++), funded within **DFG Heisenberg Program** (AP 206/6-1&2): 2013– 2018, **660 000 €**
- Techniques and Prediction Models for Sustainable Product-Line Engineering (Pythia), funded within **DFG Priority Program 1593** (AP 206/5-1&2): 2012–2017, **700 000 €**
- Taming and Optimizing Feature Interaction in Software-intensive Automotive Systems (FeatureOpt), funded by **FFG**: 2015–2018, **100 000 €** of **500 000 €**, with Hermann Kaindl and Bosch Austria
- Software Intelligence, funded by **Siemens AG**: 2013–2016, **50 820 €**
- Safe and Efficient Software Product Lines (SafeSPL), funded within **DFG Emmy-Noether Program** (AP 206/4-1&2): 2010–2015, **1 300 000 €**
- Typing of MapReduce (MapReduceFoundation), funded by **DFG** (LE 912/13-1): 2011–2013, **160 000 €** (no share), with Christian Lengauer
- Algebra-Based Feature-Oriented Program Synthesis (FeatureFoundation), funded by **DFG** (AP 206/2-1&2): 2009–2013, **320 000 €** of **640 000 €**, with Christian Lengauer and Bernhard Mller

## Software (selected)

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- **FeatureHouse**  
Language-Independent Feature Composition  
<http://fosd.net/fh/>
- **JDime**  
Structured Merge of Software Versions  
<http://fosd.net/JDime/>
- **cppstats**  
Analyzing C Preprocessor Directives  
<http://fosd.net/cppstats/>
- **SPL Conqueror**  
Performance Prediction of Software Variants  
<http://fosd.net/SPLConqueror/>
- **TypeChef**  
Variability-Aware Static Analysis  
<http://fosd.net/TypeChef/>
- **Codeface**  
Project Analysis and Dashboard Framework  
<http://siemens.github.io/codeface/>

## Professional Service

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### Departmental Service

- Vice Chair of the Board of Examiners for Doctoral Awards, since 2016
- Member of the Board of Examiners for Computer Science, since 2013
- Head of the Master Program of Computer Science, 2013–2015
- Member of the Accreditation Committee for Computer Science, 2014
- Hiring Committees: 7 (chaired: 2)

### Award Committees

- Jury of the Dissertation Award of the German Computer Science Society, since 2017

### Steering Committees (selected)

- ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), since 2017
- IEEE/ACM Int'l Conference on Automated Software Engineering (ASE), since 2016

### Organization Committees (selected)

- 27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE'19), **Program Committee Chair**
- 31th IEEE/ACM Int'l Conference on Automated Software Engineering (ASE'16), **Program Committee Chair**
- Dagstuhl Seminar on Feature Interactions: The Next Generation, 2014
- 10th Int'l Conference on Software Composition (SC'11), **Program Committee Chair**
- Dagstuhl Seminar on Feature-Oriented Software Development, 2011
- Dagstuhl Seminar on Software Engineering for Tailor-made Data Management, 2008

### Editorships

- IEEE Transactions on Software Engineering, Member of Editorial Board, since 2017
- Empirical Software Engineering, Member of Editorial Board, since 2015
- IEEE Software, Member of Editorial Board, since 2015
- Science of Computer Programming, Guest Editor, Special Issue on FOSD, 2009

### Program Committees (selected)

- ACM/IEEE Int'l Conference on Software Engineering (ICSE), 2014–2017, 2019
- ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), 2013, 2018, 2019
- IEEE/ACM Int'l Conference on Automated Software Engineering (ASE), 2009–2011, 2013–2018
- European Conference on Object-Oriented Programming (ECOOP), 2011, 2014, 2016

## Invited Talks and Lectures (selected)

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- Publishing your Research: Strategies, Prospects, and Pitfalls  
**Invited Lecture** at the New Faculty Symposium of 40th International Conference on Software Engineering, Gothenburg, Sweden, 2018
- Understanding Organizational Evolution of Software Projects  
**Keynote** at the Annual German Software Engineering Conference, Ulm, Germany, 2018
- The New Feature Interaction Challenge,  
**Keynote** at the International Workshop on Variability Modelling of Software-intensive Systems, Eindhoven, The Netherlands, 2017
- From Crosscutting Concerns to Feature Interactions: A Tale of Misunderstandings and Enlightenments, **Keynote** at the International Conference on Modularity, Malaga, Spain, 2016
- Conquering the Combinatorial Explosion: Analyzing Variable Software,  
**Keynote** at the Brazilian Symposium on Software Components, Architectures and Reuse, Maceió, Brazil, 2014
- Language-Independent and Automated Software Composition: The FeatureHouse Experience,  
**Keynote** at the International Conference on Software Composition, Budapest, 2013

## Supervision of Students

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### *Ph.D. students (current)*

- Florian Sattler, since 2017
- Christian Kaltenecker, since 2016
- Thomas Bock, since 2016
- Georg Seibt, since 2016
- Gustavo Do Vale, since 2016
- Andreas Stahlbauer, since 2015
- Alexander Grebhahn, since 2013
- Claus Hunsen, since 2012
- Olaf LeBenich, since 2012
- Sergiy Kolesnikov, since 2011

### *Ph.D. students (graduated)*

- Dr. Mitchell Joblin, 2017
- Dr. Alexander von Rhein, 2016, **Dissertation Award of the University of Passau**
- Dr. Jörg Liebig, 2015, **Software-Engineering Award of the Ernst-Denert Foundation**

*Master theses:* 26

*Bachelor theses:* 25

*Diploma theses:* 11

## Teaching

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### Lectures

- Software Product Line Engineering, since 2011
- Types and Programming Languages, since 2008
- Software Engineering, 2010–2012
- Modern Programming Paradigms, 2007–2010
- Computer Science for Non-Computer Scientists, 2008–2009

### Lab Exercises

- Software Engineering Praktikum, 2016–2017

### Seminars

- Configurable Software Systems, since 2015
- Software Evolution, 2014
- Modern Analysis Techniques of Product Lines, 2012
- Software Engineering for Exascale Computing, 2012–2013
- Software Product Line Engineering, 2009–2011

- Modern Programming Paradigms, 2008
- Database Implementation Techniques, 2004

## Working Groups

- Feature-Oriented Software Development, since 2009
- Paper Reading Group, since 2013

## Miscellaneous

- Students' Computer Science Summer Camp, University of Passau, 2007

## Publications (selected) total: 195 h-index: 52 i10-index: 133<sup>1</sup>

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Electronic versions of all publications are available on the Web:

<http://www.infosun.fim.uni-passau.de/se/apel/>.

## Dissertation

1. Sven Apel. *The Role of Features and Aspects in Software Development*. PhD thesis, School of Computer Science, University of Magdeburg, March 2007. **Software-Engineering Award of the Ernst-Denert Foundation.**

## Books

1. Sven Apel, Don Batory, Christian Kästner, and Gunter Saake. *Feature-Oriented Software Product Lines: Concepts and Implementation*. Springer-Verlag, October 2013. 315 pages, ISBN 978-3-642-37520-0.

## Refereed Journal Articles (selected)

17. Claire Le Goues, Yuriy Brun, Sven Apel, Emery Berger, Sarfrad Khurshid, and Yannis Smaragdakis. Effectiveness of Anonymization in Double-Blind Review. *Communications of the ACM*, 2018. To appear.
16. Jianmei Guo, Dingyu Yang, Norbert Siegmund, Sven Apel, Atrisha Sarkar, Pavel Valov, Krzysztof Czarnecki, Andrzej Wasowski, and Huiqun Yu. Data-Efficient Performance Learning for Configurable Systems. *Empirical Software Engineering (EMSE)*, 2018. To appear.
15. Flavio Medeiros, Marcio Ribeiro, Rohit Gheyi, Sven Apel, Christian Kästner, Bruno Ferreira, Luiz Carvalho, and Balduino Fonseca. Discipline Matters: Refactoring of Preprocessor Directives in the #ifdef Hell. *IEEE Transactions on Software Engineering (TSE)*, 2018. To appear.
14. Stefan Ganser, Armin Gröblinger, Norbert Siegmund, Sven Apel, and Christian Lengauer. Iterative Schedule Optimization for Parallelization in the Polyhedron Model. *ACM Transactions on Architecture and Code Optimization (TACO)*, 14(3):23:1–23:26, September 2017.
13. Mitchell Joblin, Sven Apel, and Wolfgang Mauerer. Evolutionary Trends of Developer Coordination: A Network Approach. *Empirical Software Engineering (EMSE)*, 22(4):2050–2094, August 2017.
12. Jörg Liebig, Sven Apel, Andreas Janker, Florian Garbe, and Sebastian Oster. Handling Static Configurability in Refactoring Engines. *IEEE Computer*, 50(7):44–53, July 2017.
11. Leonardo Passos, Leopoldo Teixeira, Nicolas Dintzner, Sven Apel, Andrzej Wasowski, Krzysztof Czarnecki, Paulo Borba, and Jianmei Guo. Coevolution of Variability Models and Related Software Artifacts: A Fresh Look at Evolution Patterns in the Linux Kernel. *Empirical Software Engineering (EMSE)*, 21(4):1744–1793, August 2016.
10. Stefan Sobernig, Sven Apel, Sergiy Kolesnikov, and Norbert Siegmund. Quantifying Structural Attributes of System Decompositions in 28 Feature-oriented Software Product Lines: An Exploratory Study. *Empirical Software Engineering (EMSE)*, 21(4):1670–1705, August 2016.
9. Claus Hunsen, Bo Zhang, Janet Siegmund, Christian Kästner, Olaf Lessenich, Martin Becker, and Sven Apel. Preprocessor-Based Variability in Open-Source and Industrial Software Systems: An Empirical Study. *Empirical Software Engineering (EMSE)*, 21(2):449–482, April 2016.

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<sup>1</sup>The h-index and the i10-index have been computed by Google Scholar.

8. Janet Feigenspan, Christian Kästner, Jörg Liebig, Sven Apel, and Stefan Hanenberg. Measuring and Modeling Programming Experience. *Empirical Software Engineering (EMSE)*, 19(5):1299–1334, October 2014.
7. Thomas Thüm, Sven Apel, Christian Kästner, Ina Schaefer, and Gunter Saake. A Classification and Survey of Analysis Strategies for Software Product Lines. *ACM Computing Surveys*, 47(1):6:1–6:45, June 2014.
6. Janet Feigenspan, Christian Kästner, Sven Apel, Jörg Liebig, Michael Schulze, Raimund Dachsel, Maria Papendieck, Thomas Leich, and Gunter Saake. Do Background Colors Improve Program Comprehension in the #ifdef Hell? *Empirical Software Engineering (EMSE)*, 18(4):699–745, July 2013.
5. Sven Apel, Christian Kästner, and Christian Lengauer. Language-Independent and Automated Software Composition: The FeatureHouse Experience. *IEEE Transactions on Software Engineering (TSE)*, 39(1):63–79, January 2013.
4. Christian Kästner, Sven Apel, Thomas Thüm, and Gunter Saake. Type Checking Annotation-Based Product Lines. *ACM Transactions on Software Engineering and Methodology (TOSEM)*, 21(3):14:1–14:39, June 2012.
3. Friedrich Steimann, Thomas Pawlitzki, Sven Apel, and Christian Kästner. Types and Modularity for Implicit Invocation with Implicit Announcement. *ACM Transactions on Software Engineering and Methodology (TOSEM)*, 20(1):1:1–1:43, June 2010.
2. Sven Apel and DeLesley Hutchins. A Calculus for Uniform Feature Composition. *ACM Transactions on Programming Languages and Systems (TOPLAS)*, 32(5):19:1–19:33, May 2010.
1. Sven Apel, Thomas Leich, and Gunter Saake. Aspectual Feature Modules. *IEEE Transactions on Software Engineering (TSE)*, 34(2):162–180, April 2008.

#### Refereed Conference Papers (selected)

29. Olaf LeBenich, Sven Apel, Christian Kästner, Georg Seibt, and Janet Siegmund. Renaming and Shifted Code in Structured Merging: Looking Ahead for Precision and Performance. In *Proceedings of the IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 543–553. IEEE Computer Society, November 2017. Acceptance rate (full papers): 21% (67 / 322).
28. Norbert Siegmund, Stefan Sobernig, and Sven Apel. Attributed Variability Models: Outside the Comfort Zone. In *Proceedings of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 268–278. ACM Press, September 2017. Acceptance rate: 24% (72 / 295).
27. Vivek Nair, Tim Menzies, Norbert Siegmund, and Sven Apel. Using Bad Learners to find Good Configurations. In *Proceedings of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 257–267. ACM Press, September 2017. Acceptance rate: 24% (72 / 295).
26. Janet Siegmund, Norman Peitek, Chris Parnin, Sven Apel, Johannes Hofmeister, Christian Kästner, Andrew Begel, Anja Bethmann, and André Brechmann. Measuring Neural Efficiency of Program Comprehension. In *Proceedings of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 140–150. ACM Press, September 2017. Acceptance rate: 24% (72 / 295).
25. Mitchell Joblin, Sven Apel, Claus Hunsen, and Wolfgang Mauerer. Classifying Developers into Core and Peripheral: An Empirical Study on Count and Network Metrics. In *Proceedings of the IEEE/ACM International Conference on Software Engineering (ICSE)*, pages 164–174. IEEE Computer Society, May 2017. Acceptance rate: 16% (68 / 415).
24. Sven Apel, Dirk Beyer, Vitaly Mordan, Vadim Mutilin, and Andreas Stahlbauer. On-The-Fly Decomposition of Specifications in Software Model Checking. In *Proceedings of the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE)*, pages 349–361. ACM Press, November 2016. Acceptance rate: 27% (74 / 273).
23. Flávio Medeiros, Christian Kästner, Márcio Ribeiro, Rohit Gheyi, and Sven Apel. A Comparison of 10 Sampling Algorithms for Configurable Systems. In *Proceedings of the ACM/IEEE International Conference on Software Engineering (ICSE)*, pages 643–654. ACM Press, May 2016. Acceptance rate: 19% (101 / 530).

22. Andreas Wölfel, Norbert Siegmund, Sven Apel, Harald Kosch, Johann Krautlager, and Guillermo Weber-Urbina. Generating Qualifiable Avionics Software: An Experience Report. In *Proceedings of the IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 726–736. IEEE Computer Society, November 2015. Acceptance rate (full papers): 21% (60 / 289).
21. Atri Sarkar, Jianmei Guo, Norbert Siegmund, Sven Apel, and Krzysztof Czarnecki. Cost-Efficient Sampling for Performance Prediction of Configurable Systems. In *Proceedings of the IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 342–352. IEEE Computer Society, November 2015. Acceptance rate (full papers): 21% (60 / 289).
20. Norbert Siegmund, Alexander Grebhahn, Sven Apel, and Christian Kästner. Performance-Influence Models for Highly Configurable Systems. In *Proceedings of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 284–294. ACM Press, August 2015. Acceptance rate: 25% (74 / 291).
19. Janet Siegmund, Norbert Siegmund, and Sven Apel. Views on Internal and External Validity in Empirical Software Engineering. In *Proceedings of the IEEE/ACM International Conference on Software Engineering (ICSE)*, pages 9–19. IEEE Computer Society, May 2015. Acceptance rate: 19% (84 / 452); **ACM SIGSOFT Distinguished Paper Award**.
18. Alexander von Rhein, Alexander Grebhahn, Sven Apel, Norbert Siegmund, Dirk Beyer, and Thorsten Berger. Presence-Condition Simplification in Highly Configurable Systems. In *Proceedings of the IEEE/ACM International Conference on Software Engineering (ICSE)*, pages 178–188. IEEE Computer Society, May 2015. Acceptance rate: 19% (84 / 452).
17. Jörg Liebig, Andreas Janker, Florian Garbe, Sven Apel, and Christian Lengauer. Morpheus: Variability-Aware Refactoring in the Wild. In *Proceedings of the IEEE/ACM International Conference on Software Engineering (ICSE)*, pages 380–391. IEEE Computer Society, May 2015. Acceptance rate: 19% (84 / 452).
16. Mitchell Joblin, Wolfgang Mauerer, Sven Apel, Janet Siegmund, and Dirk Riehle. From Developer Networks to Verified Communities: A Fine-Grained Approach. In *Proceedings of the IEEE/ACM International Conference on Software Engineering (ICSE)*, pages 563–573. IEEE Computer Society, May 2015. Acceptance rate: 19% (84 / 452).
15. Jianmei Guo, Edward Zulkoski, Rafael Olaechea, Derek Rayside, Krzysztof Czarnecki, Sven Apel, and Joanne Atlee. Scaling Exact Multi-Objective Combinatorial Optimization by Parallelization. In *Proceedings of the ACM/IEEE International Conference on Automated Software Engineering (ASE)*, pages 409–420. ACM Press, September 2014. Acceptance rate: 20% (55 / 276).
14. Janet Siegmund, Christian Kästner, Sven Apel, Chris Parnin, Anja Bethmann, Thomas Leich, Gunter Saale, and André Brechmann. Understanding Understanding Source Code with Functional Magnetic Resonance Imaging. In *Proceedings of the ACM/IEEE International Conference on Software Engineering (ICSE)*, pages 378–389. ACM Press, May 2014. Acceptance rate: 20% (99 / 495).
13. Andreas Simbürger, Sven Apel, Armin Größlinger, and Christian Lengauer. The Potential of Polyhedral Optimization: An Empirical Study. In *Proceedings of the IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 508–518. IEEE Computer Society, November 2013. Acceptance rate (full papers): 16% (51 / 317).
12. Jianmei Guo, Krzysztof Czarnecki, Sven Apel, Norbert Siegmund, and Andrzej Wasowski. Variability-Aware Performance Prediction: A Statistical Learning Approach. In *Proceedings of the IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 301–311. IEEE Computer Society, November 2013. Acceptance rate (full papers): 16% (51 / 317).
11. Jörg Liebig, Alexander von Rhein, Christian Kästner, Sven Apel, Jens Dörre, and Christian Lengauer. Scalable Analysis of Variable Software. In *Proceedings of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 81–91. ACM Press, August 2013. Acceptance rate: 20% (51 / 251).
10. Sven Apel, Alexander von Rhein, Philipp Wendler, Armin Größlinger, and Dirk Beyer. Strategies for Product-Line Verification: Case Studies and Experiments. In *Proceedings of the IEEE/ACM International Conference on Software Engineering (ICSE)*, pages 482–491. IEEE Computer Society, May 2013. Acceptance rate: 19% (85 / 461).

9. Sven Apel, Olaf Leßenich, and Christian Lengauer. Structured Merge with Auto-Tuning: Balancing Precision and Performance. In *Proceedings of the IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 120–129. ACM Press, September 2012. Acceptance rate: 13% (21 / 167).
8. Norbert Siegmund, Sergiy Kolesnikov, Christian Kästner, Sven Apel, Don Batory, Marko Rosenmüller, and Gunter Saake. Predicting Performance via Automated Feature-Interaction Detection. In *Proceedings of the IEEE/ACM International Conference on Software Engineering (ICSE)*, pages 167–177. IEEE Computer Society, June 2012. Acceptance rate: 21% (87 / 408).
7. Sven Apel, Jörg Liebig, Benjamin Brandl, Christian Lengauer, and Christian Kästner. Semistructured Merge: Rethinking Merge in Revision Control Systems. In *Proceedings of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 190–200. ACM Press, September 2011. Acceptance rate: 17% (34 / 203).
6. Sven Apel and Dirk Beyer. Feature Cohesion in Software Product Lines: An Exploratory Study. In *Proceedings of the ACM/IEEE International Conference on Software Engineering (ICSE)*, pages 421–430. ACM Press, May 2011. Acceptance rate: 14% (62 / 441).
5. Jörg Liebig, Sven Apel, Christian Lengauer, Christian Kästner, and Michael Schulze. An Analysis of the Variability in Forty Preprocessor-Based Software Product Lines. In *Proceedings of the ACM/IEEE International Conference on Software Engineering (ICSE)*, pages 105–114. ACM Press, May 2010. Acceptance rate: 14% (52 / 380).
4. Sven Apel, Christian Kästner, and Christian Lengauer. FeatureHouse: Language-Independent, Automated Software Composition. In *Proceedings of the IEEE/ACM International Conference on Software Engineering (ICSE)*, pages 221–231. IEEE Computer Society, May 2009. Acceptance rate: 12% (50 / 405).
3. Christian Kästner and Sven Apel. Type-checking Software Product Lines – A Formal Approach. In *Proceedings of the IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 258–267. IEEE Computer Society, September 2008. Acceptance rate: 12% (30 / 280).
2. Christian Kästner, Sven Apel, and Martin Kuhlemann. Granularity in Software Product Lines. In *Proceedings of the ACM/IEEE International Conference on Software Engineering (ICSE)*, pages 311–320. ACM Press, May 2008. Acceptance rate: 15% (56 / 371).
1. Sven Apel, Thomas Leich, and Gunter Saake. Aspectual Mixin Layers: Aspects and Features in Concert. In *Proceedings of the ACM/IEEE International Conference on Software Engineering (ICSE)*, pages 122–131. ACM Press, May 2006. Acceptance rate: 9% (36 / 395).