

Curriculum Vitae

Affiliation Associate Professor
Carnegie Mellon University
School of Computer Science
Institute for Software Research
5000 Forbes Avenue, Pittsburgh, PA 15213, USA

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Profile

Associate professor in the Institute of Software Research at the Carnegie Mellon University interested in *limits of modularity* and *variability* in software systems. Developing mechanisms, languages, and tools to implement variability in a disciplined way, to detect errors, to help with nonmodular changes, and to improve program comprehension in software systems, often focused on systems with a high amount of variability.

Education

- Apr. 2007 – May 2010 Doctoral degree in computer science (Doktor-Ingenieur),
University of Magdeburg, Germany,
Summa cum laude (with distinction)
Committee: Prof. Gunter Saake (University of Magdeburg), Prof. Don Batory (University of Texas at Austin), Prof. Krzysztof Czarnecki (University of Waterloo)
- Oct. 2002 – Mar. 2007 Diploma degree in business information systems
(M.Sc. equivalent; Diplom-Wirtschaftsinformatiker),
University of Magdeburg, Germany,
Grade “1.0” (with distinction)

Academic Employment

- since Jul. 2018 Associate Professor,
Carnegie Mellon University
- since Sep. 2012 Assistant Professor,
Carnegie Mellon University
- Jul. 2010 – Aug. 2012 Researcher (Post-Doc),
Host: Prof. Klaus Ostermann,
Philipps University Marburg, Germany
- Apr. 2007 – Jun. 2010 Research Assistant,
Host: Prof. Gunter Saake,
University of Magdeburg, Germany
- Oct. 2006 – Mar. 2007 Visiting scholar,
Host: Prof. Don Batory
University of Texas at Austin, USA
- Oct. 2005 – Sep. 2006 Student Research Assistant,
Host: Prof. Gunter Saake,
University of Magdeburg, Germany

Awards and Honors

- Nov. 2017 Distinguished Reviewer Award at the International Conference on Automated Software Engineering (ASE) 2017
- May. 2017 Distinguished Reviewer Award at the International Conference on Software Engineering (ICSE) 2017
- Nov. 2015 Distinguished Reviewer Award at the International Conference on Automated Software Engineering (ASE) 2015
- Oct. 2011 **GI-Dissertationspreis:** Best Dissertation Award of the German Computer Science Association, 2010 (€ 5 000)
- Oct. 2011 Distinguished-Paper Award at the International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA) 2011
- Aug. 2011 Best-Research-Paper Award at the International Software Product Line Conference 2011
- Nov. 2010 Best-Dissertation Award of the School of Computer Science, University of Magdeburg, 2010 (€ 1 000)
- Dec. 2009 Research Award of the School of Computer Science, University of Magdeburg for the Best Paper, 2009 (€ 1 000)
- Sep. 2007 Software Engineering Award of the Denert Foundation for the Best Master's Thesis, 2007 (€ 2 000)
- Oct. 2007 Best-Graduate Award of the School of Computer Science, University of Magdeburg, 2007
- Sep. 2006 Student Scholarship of the Germany Academic Exchange Service

Invited Talks

- May. 2017 How to Break an API: How Community Values Influence Practices, Speaker at jsconf.eu
- May. 2016 Quality Assurance for Highly-Configurable Systems, Keynote Talk for the VACE Workshop at ICSE'16
- Nov. 2015 Starting an Academic Career – Reflecting on Habits that Worked for Me, Keynote Talk for the ASE 2015 Doctoral Symposium
- Oct. 2015 Parsing Unpreprocessed C Code - The TypeChef Experience, Keynote Talk for the Parsing@SLE Workshop at SPLASH'15
- Sep. 2015 Understanding Feature Interactions: From Bugs to Performance Surprises, Keynote at Brazilian Symposium on Software Components, Architectures, and Reuse (SBCARS)
- Jul. 2014 Feature Interactions in Software Systems An Implementation Perspective, Dagstuhl Seminar 14281: Feature Interactions: The Next Generation
- Jun. 2014 Analyzing Highly-Configurable Software Systems, University of Toronto – Workshop on the State of the Art in Automated Software Engineering Research
- Apr. 2014 Quality Assurance for Highly-Configurable Systems, University of Magdeburg, Germany
- Apr. 2014 Analysis of Software Product Lines, Dagstuhl Seminar 14172: Unifying Product and Software Configuration
- Dec. 2013 Variability Mining, University of Waterloo – Product Line Engineering Workshop

- Dec. 2013 Parsing and Type Checking all 2^{10000} Configurations of the Linux Kernel,
University of Nebraska at Lincoln, Lincoln, NE
- Aug. 2013 Analyzing Highly Configurable Systems: From Linux to Eclipse,
Technical University Darmstadt, Germany
- Aug. 2013 Accepting Change - Awareness instead of Stability Guarantees,
University of Passau, Germany
- Feb. 2013 Analyzing the #ifdef Hell with TypeChef – Or the Quest for Realistic Subjects in Product-Line Analysis,
Dagstuhl Seminar 13091: Analysis, Test and Verification in The Presence of Variability
- Dec. 2012 A Variability-Aware Module System,
Dagstuhl Seminar 12511: Divide and Conquer: the Quest for Compositional Design and Analysis
- Apr. 2012 Parsing and Type Checking all 2^{10000} Configurations of the Linux Kernel,
University of Passau, Germany
- Apr. 2012 Parsing and Type Checking all 2^{10000} Configurations of the Linux Kernel,
Carnegie Mellon University, Pittsburgh, PA
- Apr. 2012 Parsing and Type Checking all 2^{10000} Configurations of the Linux Kernel,
University of Edinburgh, UK
- Mar. 2012 Parsing and Type Checking all 2^{10000} Configurations of the Linux Kernel,
Purdue University, West Lafayette, IN
- Dec. 2011 Parsing and Type Checking all 2^{10000} Configurations of the Linux Kernel,
Technical University Ilmenau, Germany
- Oct. 2011 Virtual Separation of Concerns,
Oregon State University, Corvallis, OR
- Oct. 2011 Modularity in Feature-Oriented Software Development,
University of Texas at Austin, TX
- Jun. 2011 Virtual Separation of Concerns: Toward Preprocessors 2.0,
Kolloquium zum GI Dissertationspreis 2010 at Dagstuhl 11222
- Jan. 2011 Variability-Aware Analysis: Type Checking entire Product Lines,
Dagstuhl Seminar 11021: Feature-Oriented Software Development
- Dec. 2010 Modularity – Current State and Challenges,
University of Waterloo, ON
- Dec. 2010 Variability Analysis of C Code in the Presence of Lexical Macros and Conditional Compilation,
IFIP WG 2.11 Meeting, Waterloo, ON
- Jul. 2010 From Aspectual Decomposition to Virtual Separation of Concerns,
Colloquium Honorary Doctorate Ernst Denert, University of Kaiserslautern
- May. 2010 Virtual Separation of Concerns: Toward Preprocessors 2.0,
Philipps University Marburg, Germany
- Apr. 2010 Virtual Separation of Concerns: Toward Preprocessors 2.0,
University of Namur (FUNDP), Belgium
- Mar. 2010 Virtual Separation of Concerns: Toward Preprocessors 2.0,
IFIP WG 2.11 Meeting, St. Andrews, UK

Jul. 2008 Decomposing Berkeley DB: Granularity and Interactions,
Dagstuhl Seminar 08281: Software Engineering for Tailor-made Data Management

Teaching

Courses

- 2018 17-654 Analysis of Software Artifacts
- 2018 17-313 Foundations of Software Engineering
- 2013, 2014, 2015, 2017 15-214 Principles of Software Construction: Objects, Design, and Concurrency
- 2013, 2014, 2015, 2016, 2017 15-313 Foundations of Software Engineering
 - 2015 17-708 Software Product Lines: Concepts and Implementation
 - 2012 Empirical Methods for Computer Scientists (in German)
 - 2011 Software Product Lines: Concepts and Implementation (in German)
 - 2010 Software Engineering (in German)
- 2008, 2009, 2010 Student Conference on Software Engineering and Database Systems
- 2008, 2009 Product-Line Implementation for Tailor-Made Data Management (in German)

Exercise Classes, Seminars, and Others

- Paper Reading Group (in English)
- 2012 Empirical Methods for Computer Scientists (in German)
- 2011 Software Product Lines: Concepts and Implementation (in German)
- 2010 Software Product Lines (in German)
- 2007, 2008, 2009, 2010 Concepts of Database Implementation (in German)
- 2007, 2008, 2009 Product-Line Implementation for Tailor-Made Data Management (in German)
- 2009 Specification Technologies (in German)
- 2007 Advanced Database Models (in English)
- 2004, 2005 Cost Accounting (in German)
- 2004 Algorithms and Data Structures (in German)

Memberships

IFIP Working Group 2.11 (Program Generation)
Association for Computing Machinery (ACM)
Deutscher Hochschulverband

Professional Service

Organization Committees

- ASE 2017 32nd IEEE/ACM International Conference on Automated Software Engineering – Doctoral Symposium Co-Chair
- GPCE 2015 14th ACM International Conference on Generative Programming and Component Engineering – General Chair
- FOSD 2014 6th International Workshop on Feature-Oriented Software Development – Organization-Committee Member
- GPCE 2014 13rd ACM International Conference on Generative Programming and Component Engineering – Steering-Committee Member
- GPCE 2013 12nd ACM International Conference on Generative Programming and Component Engineering – Program-Committee Chair
- FOSD 2013 5th International Workshop on Feature-Oriented Software Development – Organization-Committee Member
- FOSD 2012 4th International Workshop on Feature-Oriented Software Development – Organization-Committee Member
- ESCOT 2012 3rd International Workshop on Empirical Evaluation of Software Composition Techniques – Organization-Committee Member
- FOSD 2011 3rd International Workshop on Feature-Oriented Software Development – Organization-Committee Member
- FOSD 2010 2nd International Workshop on Feature-Oriented Software Development – Organization-Committee Member
- FOSD 2009 1st International Workshop on Feature-Oriented Software Development – Organization-Committee Member
- FOSD-Me. 2009-18 Annual Meeting on Feature-Oriented Software Development (2009 Passau, 2010 Magdeburg, 2011 Dresden, 2012 Braunschweig, 2013 and 2014 Dagstuhl, 2015 Traunkirchen, 2016 Copenhagen, 2017 Darmstadt, 2018 Gothenburg)

Program Committees (Conferences)

- ESEC/FSE 2019 European Software Engineering Conference and ACM SIGSOFT Symposium on the Foundations of Software Engineering
- OOPSLA 2019 34th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications – External-Review-Committee Member
- ICSE-NIER 2019 ICSE New Ideas and Emerging Results (NIER)
- ICSE 2018 40th International Conference on Software Engineering
- SE 2018 Software Engineering Conference of the Gesellschaft für Informatik (GI)
- ECOOP 2017 31st European Conference on Object-Oriented Programming
- ASE 2017 32nd IEEE/ACM International Conference on Automated Software Engineering – Program-Committee Member, Doctoral Symposium Co-Chair
- ICSE 2017 39th International Conference on Software Engineering
- ESEC/FSE 2017 European Software Engineering Conference and ACM SIGSOFT Symposium on the Foundations of Software Engineering
- ASE 2016 31st IEEE/ACM International Conference on Automated Software Engineering – External-Review-Committee Member
- ECOOP 2016 30th European Conference on Object-Oriented Programming – External-Review-Committee Member

- SPLC 2016 20th International Software Product Line Conference
- MV 2016 MODULARITY 2016 - Modularity Visions Track
- ASE 2015 30th IEEE/ACM International Conference on Automated Software Engineering
- SBCARS 2015 Brazilian Symposium on Software Components, Architectures and Reuse
- SPLC 2015 19th International Software Product Line Conference
- SPLC 2014 18th International Software Product Line Conference
- ASE 2014 29th IEEE/ACM International Conference on Automated Software Engineering
- ECOOP 2014 28th European Conference on Object-Oriented Programming – External-Review-Committee Member
- MV 2014 MODULARITY 2014 - Modularity Visions Track
- OOPSLA 2013 28th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications
- SE 2013 SE 13 – GI Konferenz Software Engineering
- GPCE 2012 11st ACM International Conference on Generative Programming and Component Engineering
- SC 2011 10th International Conference on Software Composition
- GPCE 2011 10th ACM International Conference on Generative Programming and Component Engineering

Program Committees (Workshops and Other)

- VaMoS 2019 13rd Int'l Workshop on Variability Modelling of Software-Intensive Systems
- SPLTea 2018 Third International Workshop on Software Product Line Teaching
- VaMoS 2018 12nd Int'l Workshop on Variability Modelling of Software-Intensive Systems
- WAPI 2017 ICSE Workshop on API Usage and Evolution
- VaMoS 2017 11st Int'l Workshop on Variability Modelling of Software-Intensive Systems
- RELENG 2016 4th International Workshop on Release Engineering
- VaMoS 2016 10th Int'l Workshop on Variability Modelling of Software-Intensive Systems
- VaMoS 2015 9th Int'l Workshop on Variability Modelling of Software-Intensive Systems
- SPLTea 2015 Second International Workshop on Software Product Line Teaching
- ICSE-D 2015 International Conference on Software Engineering – Demonstrations Committee
- MultiPLE 2014 SPLC Workshop on Multi Product Line Engineering
- SPLat 2014 Software Product Line Analysis Tools 2014
- SPLTea 2014 First International Workshop on Software Product Line Teaching
- REVE 2014 2nd Workshop on Reverse Variability Engineering
- ICSE-TB 2014 ICSE 2014 - Tutorial and Technical Briefings Track
- VaMoS 2014 8th Int'l Workshop on Variability Modelling of Software-Intensive Systems

- SCORE 2013 Student Contest on Software Engineering at ICSE
- MPLE 2013 SPLC Workshop on Multi Product Line Engineering
- VaMoS 2013 7th Int'l Workshop on Variability Modelling of Software-Intensive Systems
- REVE 2013 1st Workshop on Reverse Variability Engineering
- SLE-DS 2012 International Conference on Software Language Engineering - Doctoral Symposium
- SPLC-TD 2012 16th International Software Product Line Conference - Tools and Demonstrations Track
- NFPinDSML 2012 4th Workshop on Non-functional System Properties and Domain Specific Modeling Languages
- RAM-SE 2012 10th Workshop on Reflection, AOP and Meta-Data for Software Evolution
- MISS 2012 2nd Workshop on Modularity in Systems Software
- PEPM 2012 21st ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation
- VaMoS 2012 6th Int'l Workshop on Variability Modelling of Software-Intensive Systems
- FREECO 2011 ECOOP Workshop on Free Composition
- ASE-TD 2010 25th International Conference on Automated Software Engineering – Tool Demonstration Committee
- PLEERPS 2010 Workshop on Product-Line Engineering for Enterprise Resource Planning Systems

Reviewing

- TOSEM 2018 ACM Transactions on Software Engineering and Methodology
- ASE 2018 Automated Software Engineering – An International Journal
- ESEM 2017 11st International Symposium on Empirical Software Engineering and Measurement
- TSE 2017 IEEE Transactions on Software Engineering
- TSE 2016 IEEE Transactions on Software Engineering
- SOSYM 2016 International Journal on Software and Systems Modeling
- COMLAN 2016 Journal of Computer Languages, Systems & Structures
- TSE 2015 IEEE Transactions on Software Engineering
- SPE 2015 Software: Practice and Experience
- SCP 2014 Science of Computer Programming
- JOSER 2014 Journal of Software Engineering in Robotics
- TSE 2014 IEEE Transactions on Software Engineering
- TOPLAS 2012 ACM Transactions on Programming Languages and Systems
- ESEM 2012 6th International Symposium on Empirical Software Engineering and Measurement
- JSEP 2012 Journal of Software: Evolution and Process
- HOSC 2012 Higher-Order and Symbolic Computation
- AI 2012 Acta Informatica

SPE 2012 Software: Practice and Experience
 SCP 2012 Science of Computer Programming
 TOSEM 2011 ACM Transactions on Software Engineering and Methodology
 JSS 2012 Journal of Systems and Software
 IST 2011 Information and Software Technology
 STTT 2011 Software Tools for Technology Transfer
 SCP 2011 Science of Computer Programming
 IST 2010 Information and Software Technology
 TSE 2010 IEEE Transactions on Software Engineering
 SCP 2010 Science of Computer Programming
 IS 2009 IEEE Software

Publications

total: 175; h-index: 44

Key publications are highlighted with ★. PDF versions available online:
<http://www.cs.cmu.edu/~ckaestne/>.

Books

- ★ 1. Sven Apel, Don Batory, Christian Kästner, and Gunter Saake. Feature-Oriented Software Product Lines: Concepts and Implementation. Berlin/Heidelberg: Springer-Verlag, 2013. 308 pages, ISBN 978-3-642-37520-0.

Refereed Journal Articles

- 2. Hung Viet Nguyen, Hung Dang Phan, Christian Kästner, and Tien N. Nguyen. Exploring Output-Based Coverage for Testing PHP Web Applications. *Automated Software Engineering – An International Journal (ASE)*, 2018.
- ★ 3. Alexander von Rhein, Jörg Liebig, Andreas Janker, Christian Kästner, and Sven Apel. Variability-Aware Static Analysis at Scale: An Empirical Study. *ACM Transactions on Software Engineering and Methodology (TOSEM)*, 2018.
- 4. Norman Peitek, Janet Siegmund, Sven Apel, Christian Kästner, Chris Parnin, Anja Bethmann, Thomas Leich, Gunter Saake, and André Brechmann. A Look into Programmers' Heads. *IEEE Transactions on Software Engineering (TSE)*, 2013.
- 5. Sergiy S. Kolesnikov, Norbert Siegmund, Christian Kästner, Alexander Grebhahn, and Sven Apel. Tradeoffs in Modeling Performance of Highly-Configurable Software Systems. *International Journal on Software and Systems Modeling (SOSYM)*, 2018.
- 6. Olaf Leßenich, Janet Siegmund, Sven Apel, Christian Kästner, and Claus Hunsen. Indicators for Merge Conflicts in the Wild: Survey and Empirical Study. *Automated Software Engineering – An International Journal (ASE)*, 2017.
- ★ 7. Max Lillack, Christian Kästner, and Eric Bodden. Tracking Load-time Configuration Options. *IEEE Transactions on Software Engineering (TSE)*, 2017.
- 8. Raman Goyal, Gabriel Ferreira, Christian Kästner, and James Herbsleb. Identifying Unusual Commits on GitHub. *Journal of Software: Evolution and Process (JSEP)*, 30(1):, January 2018.

- ★ 9. Flávio Medeiros, Márcio 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)*, 44(5):453–469, May 2018.
- 10. James Herbsleb, Christian Kästner, and Christopher Bogart. Intelligently Transparent Software Ecosystems. *IEEE Software (IEEE-Sw)*, 33(1):89–96, 2015.
- ★ 11. Sarah Nadi, Thorsten Berger, Christian Kästner, and Krzysztof Czarnecki. Where do Configuration Constraints Stem From? An Extraction Approach and an Empirical Study. *IEEE Transactions on Software Engineering (TSE)*, 41(8):820–841, 2015.
- 12. Claus Hunsen, Janet Siegmund, Olaf Leßenich, Sven Apel, Bo Zhang, Christian Kästner, and Martin Becker. Preprocessor-Based Variability in Open-Source and Industrial Software Systems: An Empirical Study. *Empirical Software Engineering (EMSE), Special Issue on Empirical Evidence on Software Product Line Engineering*, 1–34, 2015.
- ★ 13. 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 (CSUR)*, 47(1):Article 6, June 2014.
- 14. 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.
- ★ 15. Christian Kästner, Alexander Dreiling, and Klaus Ostermann. Variability Mining: Consistent Semiautomatic Detection of Product-Line Features. *IEEE Transactions on Software Engineering (TSE)*, 40(1):67–82, 2014.
- 16. Sven Apel, Alexander von Rhein, Thomas Thüm, and Christian Kästner. Feature-Interaction Detection based on Feature-Based Specifications. *Computer Networks (COMNET), Special Issue on Feature Interaction*, 57(12):2399–2409, August 2013.
- 17. Norbert Siegmund, Marko Rosenmüller, Christian Kästner, Paolo G. Garrusso, Sven Apel, and Sergiy S. Kolesnikov. Scalable Prediction of Non-functional Properties in Software Product Lines: Footprint and Memory Consumption. *Information and Software Technology (IST), Special Issue on Software Reuse and Product Lines*, 55(3):491–507, March 2013.
- 18. Thomas Thüm, Christian Kästner, Fabian Benduhn, Jens Meinicke, Gunter Saake, and Thomas Leich. FeatureIDE: An Extensible Framework for Feature-Oriented Software Development. *Science of Computer Programming (SCP), Special Issue on Experimental Software and Toolkits*, 79:70–85, 2014.
- ★ 19. 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, 2012.
- 20. Janet Feigenspan, Michael Schulze, Maria Papendieck, Christian Kästner, Raimund Dachsel, Veit Köppen, Mathias Frisch, and Gunter Saake. Supporting Program Comprehension in Large Preprocessor-Based Software Product Lines. *IET Software*, 6(6):488–501, December 2012.
- ★ 21. 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, 2013.
- 22. Mario Pukall, Christian Kästner, Walter Cazzola, Sebastian Götz, Alexander Grebhahn, Reimar Schröter, and Gunter Saake. JavAdaptor: Flexible

Runtime Updates of Java Applications. *Software: Practice and Experience (SPE)*, 43(2):153–185, February 2013.

23. Norbert Siegmund, Marko Rosenmüller, Martin Kuhlemann, Christian Kästner, Sven Apel, and Gunter Saake. SPL Conqueror: Toward Optimization of Non-functional Properties in Software Product Lines. *Software Quality Journal (SQJ), Special Issue on Quality Engineering for Software Product Lines*, 20(3):487–517, 2011.
- ★ 24. 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):Article 14, 2012.
25. Sven Apel, Sergiy S. Kolesnikov, Jörg Liebig, Christian Kästner, Martin Kuhlemann, and Thomas Leich. Access Control in Feature-Oriented Programming. *Science of Computer Programming (SCP), Special Issue on Feature-Oriented Software Development*, 77(3):174–187, March 2012.
26. Sven Apel, Christian Lengauer, Bernhard Möller, and Christian Kästner. An Algebraic Foundation for Automatic Feature-Based Program Synthesis. *Science of Computer Programming (SCP)*, 75(11):1022–1047, November 2010.
- ★ 27. Sven Apel, Christian Kästner, Armin Größlinger, and Christian Lengauer. Type Safety for Feature-Oriented Product Lines. *Automated Software Engineering – An International Journal (ASE)*, 17(3):251–300, 2010.
28. 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):Article 1; 43 pages, June 2010.
29. Sven Apel, Christian Kästner, Martin Kuhlemann, and Thomas Leich. Pointcuts, Advice, Refinements, and Collaborations: Similarities, Differences, and Synergies. *Innovations in Systems and Software Engineering – A NASA Journal (ISSE)*, 3(3-4):281–289, December 2007.
30. Sven Apel, Christian Kästner, Thomas Leich, and Gunter Saake. Aspect Refinement - Unifying AOP and Stepwise Refinement. *Journal of Object Technology (JOT), Special Issue on TOOLS EUROPE 2007*, 6(9):13–33, October 2007.
31. Sven Apel, Christian Kästner, Martin Kuhlemann, and Thomas Leich. Modularität von Softwarebausteinen: Aspekte versus Merkmale. *iX Magazin für Professionelle Informationstechnik (iX)*, (10):116–122, October 2006.

Refereed Conference Papers

- ★ 32. Chu-Pan Wong, Jens Meinicke, Lukas Lazarek, and Christian Kästner. Faster Variational Execution with Transparent Bytecode Transformation. In *Proceedings of the 33rd Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)*, New York, NY: ACM Press, November 2018.
33. Chu-Pan Wong, Jens Meinicke, and Christian Kästner. Beyond Testing Configurable Systems: Applying Variational Execution to Automatic Program Repair and Higher Order Mutation Testing. In *Proceedings of the 26th International Symposium on Foundations of Software Engineering – New Ideas Track (FSE-NIER)*, November 2018. Acceptance rate: 20 % (12/59).
34. Pooyan Jamshidi, Miguel Velez, Christian Kästner, and Norbert Siegmund. Learning to Sample: Exploiting Similarities Across Environments to Learn Performance Models for Configurable Systems. In *Proceedings of the European Software Engineering Conference and ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE)*, New York, NY: ACM Press, November 2018.

35. Allan Mori, Gustavo Vale, Markos Vigiato, Johnatan Oliveira, Eduardo Figueiredo, Elder Cirilo, Pooyan Jamshidi, and Christian Kästner. Evaluating Domain-Specific Metric Thresholds: An Empirical Study. In *Proceedings of the International Conference on Technical Debt (TechDebt)*, New York, NY: ACM Press, May 2018.
36. David Widder, Michael Hilton, Christian Kästner, and Bogdan Vasilescu. I'm Leaving You, Travis: A Continuous Integration Breakup Story. In *Proceedings of the 16th International Conference on Mining Software Repositories (MSR)*, New York, NY: ACM Press, May 2018. Acceptance rate: 33 % (48/145).
37. Asher Trockman, Keenen Cates, Mark Mozina, Tuan Nguyen, Christian Kästner, and Bogdan Vasilescu. "Automatically Assessing Code Understandability" Reanalyzed: Combined Metrics Matter. In *Proceedings of the 16th International Conference on Mining Software Repositories (MSR)*, New York, NY: ACM Press, May 2018. Acceptance rate: 33 % (48/145).
- ★ 38. Asher Trockman, Shurui Zhou, Christian Kästner, and Bogdan Vasilescu. Adding Sparkle to Social Coding: An Empirical Study of Repository Badges in the npm Ecosystem. In *Proceedings of the 40th International Conference on Software Engineering (ICSE)*, New York, NY: ACM Press, May 2018. Acceptance rate: 21 % (105/502).
- ★ 39. Shurui Zhou, Ștefan Stănculescu, Olaf Leßenich, Yingfei Xiong, Andrzej Wařowski, and Christian Kästner. Identifying Features in Forks. In *Proceedings of the 40th International Conference on Software Engineering (ICSE)*, New York, NY: ACM Press, May 2018. Acceptance rate: 21 % (105/502).
40. Jafar Al-Kofahi, Suresh Kothari, and Christian Kästner. Four Languages and Lots of Macros: Analyzing Autotools Build Systems. In *Proceedings of the 16th ACM International Conference on Generative Programming and Component Engineering (GPCE)*, pages 176–186, New York, NY: ACM Press, October 2017. Acceptance rate: 32 % (18/56).
- ★ 41. Pooyan Jamshidi, Norbert Siegmund, Miguel Velez, Christian Kästner, Akshay Patel, and Yuvraj Agarwal. Transfer Learning for Performance Modeling of Configurable Systems: An Exploratory Analysis. In *Proceedings of the 32nd IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 497–508, Los Alamitos, CA: IEEE Computer Society, November 2017.
42. Olaf Leßenich, 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 32nd IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 543–553, Los Alamitos, CA: IEEE Computer Society, November 2017.
43. 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 ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 140–150, New York, NY: ACM Press, September 2017.
44. Pooyan Jamshidi, Miguel Velez, Christian Kästner, Norbert Siegmund, and Prasad Kawthekar. Transfer Learning for Improving Model Predictions in Highly Configurable Software. In *Proceedings of the 12th International Symposium on Software Engineering for Adaptive and Self-Managing Systems (SEAMS)*, pages 31–41, Los Alamitos, CA: IEEE Computer Society, May 2017. Acceptance rate: 23 % (14/61).
- ★ 45. Jens Meinicke, Chu-Pan Wong, Christian Kästner, Thomas Thüm, and Gunter Saake. On Essential Configuration Complexity: Measuring Interactions In Highly-Configurable Systems. In *Proceedings of the 31st*

IEEE/ACM International Conference on Automated Software Engineering (ASE), pages 483–494, New York, NY: ACM Press, September 2016. Acceptance rate: 19 % (57/298).

- ★ 46. Christopher Bogart, Christian Kästner, James Herbsleb, and Ferdian Thung. How to Break an API: Cost Negotiation and Community Values in Three Software Ecosystems. In *Proceedings of the ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE)*, pages 109–120, New York, NY: ACM Press, November 2016. Acceptance rate: 27 % (74/273).
- 47. Gabriel Ferreira, Momin Malik, Christian Kästner, Juergen Pfeffer, and Sven Apel. Do #ifdefs Influence the Occurrence of Vulnerabilities? An Empirical Study of the Linux Kernel. In *Proceedings of the 20th International Software Product Line Conference (SPLC)*, pages 65–744, New York, NY: ACM Press, September 2016. Acceptance rate: 39 % (17/44).
- 48. Waqar Ahmad, Christian Kästner, Joshua Sunshine, and Jonathan Aldrich. Inter-app Communication in Android: Developer Challenges. In *Proceedings of the 14th International Conference on Mining Software Repositories (MSR)*, pages 177–188, New York, NY: ACM Press, May 2016. Acceptance rate: 27 % (36/133).
- ★ 49. Flávio Medeiros, Christian Kästner, Márcio Ribeiro, Rohit Gheyi, and Sven Apel. A Comparison of 10 Sampling Algorithms for Configurable Systems. In *Proceedings of the 38th International Conference on Software Engineering (ICSE)*, pages 643–654, New York, NY: ACM Press, May 2016. Acceptance rate: 19 % (101/530).
- 50. Hung Viet Nguyen, My Huu Nguyen, Son Cuu Dang, Christian Kästner, and Tien N. Nguyen. Detecting Semantic Merge Conflicts With Variability-Aware Execution. In *Proceedings of the International Symposium on Foundations of Software Engineering – New Ideas Track (ESEC/FSE-NIER)*, pages 926–929, New York, NY: ACM Press, August 2015.
- ★ 51. Norbert Siegmund, Alexander Grebhahn, Christian Kästner, and Sven Apel. Performance-Influence Models for Highly Configurable Systems. In *Proceedings of the European Software Engineering Conference and ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 284–294, New York, NY: ACM Press, August 2015. Acceptance rate: 25 % (74/291).
- ★ 52. Hung Viet Nguyen, Christian Kästner, and Tien N. Nguyen. Cross-language Program Slicing for Dynamic Web Applications. In *Proceedings of the European Software Engineering Conference and ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 369–380, New York, NY: ACM Press, August 2015. Acceptance rate: 25 % (74/291).
- ★ 53. Flávio Medeiros, Christian Kästner, Márcio Ribeiro, Sarah Nadi, and Rohit Gheyi. The Love/Hate Relationship with The C Preprocessor: An Interview Study. In *Proceedings of the 29th European Conference on Object-Oriented Programming (ECOOP)*, volume 37 of *Leibniz International Proceedings in Informatics*, pages 495–518, Dagstuhl, Germany: Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2015.
- 54. Hung Viet Nguyen, Christian Kästner, and Tien N. Nguyen. Varis: IDE Support for Embedded Client Code in PHP Web Applications. In *Proceedings of the 37th International Conference on Software Engineering (Volume 2) (ICSE)*, pages 693–696, May 2015. Formal Demonstration paper, **Best Demonstration Award**.
- 55. Max Lillack, Christian Kästner, and Eric Bodden. Tracking Load-time Configuration Options. In *Proceedings of the 29th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 445–456, Los Alamitos, CA: IEEE Computer Society, September 2014. Acceptance rate: 20 % (55/276).

- ★ 56. Hung Viet Nguyen, Christian Kästner, and Tien N. Nguyen. Building Call Graphs for Embedded Client-Side Code in Dynamic Web Applications. In *Proceedings of the ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE)*, pages 518–529, New York, NY: ACM Press, November 2014. Acceptance rate: 22 % (61/273).
- ★ 57. Eric Walkingshaw, Christian Kästner, Martin Erwig, Sven Apel, and Eric Bodden. Variational Data Structures: Exploring Tradeoffs in Computing with Variability. In *Proceedings of the 13rd SIGPLAN Symposium on New Ideas in Programming and Reflections on Software at SPLASH (Onward!)*, pages 213–226, New York, NY: ACM Press, 2014.
- ★ 58. Janet Siegmund, Christian Kästner, Sven Apel, Chris Parnin, Anja Bethmann, Thomas Leich, Gunter Saake, and André Brechmann. Understanding Understanding Source Code with Functional Magnetic Resonance Imaging. In *Proceedings of the 36th International Conference on Software Engineering (ICSE)*, pages 378–389, June 2014. Acceptance rate: 20 % (99/495).
- ★ 59. Hung Viet Nguyen, Christian Kästner, and Tien N. Nguyen. Exploring Variability-Aware Execution for Testing Plugin-Based Web Applications. In *Proceedings of the 36th International Conference on Software Engineering (ICSE)*, pages 907–918, June 2014. Acceptance rate: 20 % (99/495).
- ★ 60. Sarah Nadi, Thorsten Berger, Christian Kästner, and Krzysztof Czarnecki. Mining Configuration Constraints: Static Analyses and Empirical Results. In *Proceedings of the 36th International Conference on Software Engineering (ICSE)*, pages 140–151, June 2014. Acceptance rate: 20 % (99/495).
- ★ 61. Márcio Ribeiro, Paulo Borba, and Christian Kästner. Feature Maintenance with Emergent Interfaces. In *Proceedings of the 36th International Conference on Software Engineering (ICSE)*, pages 989–1000, June 2014. Acceptance rate: 20 % (99/495).
- 62. 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 ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 81–91, New York, NY: ACM Press, August 2013. Acceptance rate: 20 % (51/251).
- 63. Janet Siegmund, Christian Kästner, Sven Apel, André Brechmann, and Gunter Saake. Experience from Measuring Program Comprehension – Toward a General Framework. In *Proceedings of the Software Engineering 2013 – Fachtagung des GI-Fachbereichs Softwaretechnik (SE)*, volume P-213 of *Lecture Notes in Informatics*, pages 239–257, Bonn, Germany: Gesellschaft für Informatik (GI), February 2013.
- 64. Paolo G. Giarrusso, Klaus Ostermann, Michael Eichberg, Ralf Mitschke, Tillmann Rendel, and Christian Kästner. Reify Your Collection Queries for Modularity and Speed! In *Proceedings of the 12th ACM International Conference on Aspect-Oriented Software Development (AOSD)*, pages 1–12, New York, NY: ACM Press, March 2013. Acceptance rate: 24 % (17/72).
- 65. Janet Siegmund, André Brechmann, Sven Apel, Christian Kästner, Jörg Liebig, Thomas Leich, and Gunter Saake. Toward Measuring Program Comprehension with Functional Magnetic Resonance Imaging. In *Proceedings of the 20th International Symposium on Foundations of Software Engineering – New Ideas Track (FSE-NIER)*, pages 24:1–24:4, November 2012. Acceptance rate: 20 % (12/59).
- 66. Sebastian Erdweg, Tillmann Rendel, Christian Kästner, and Klaus Ostermann. Layout-Sensitive Generalized Parsing. In *Proceedings of the International Conference on Software Language Engineering (SLE)*, pages 244–263, Berlin/Heidelberg: Springer-Verlag, September 2012. Acceptance rate: 32 % (20/62).

- ★ 67. Christian Kästner, Klaus Ostermann, and Sebastian Erdweg. A Variability-Aware Module System. In *Proceedings of the 27th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)*, pages 773–792, New York, NY: ACM Press, October 2012. Acceptance rate: 25 % (57/228).
- ★ 68. Norbert Siegmund, Sergiy S. Kolesnikov, Christian Kästner, Sven Apel, Don Batory, Marko Rosenmüller, and Gunter Saake. Predicting Performance via Automated Feature-Interaction Detection. In *Proceedings of the 34th International Conference on Software Engineering (ICSE)*, pages 167–177, Los Alamitos, CA: IEEE Computer Society, 2012. Acceptance rate: 21 % (87/408).
- 69. Sebastian Erdweg, Lennart C.L. Kats, Tillmann Rendel, Christian Kästner, Klaus Ostermann, and Eelco Visser. Growing a Language Environment with Editor Libraries. In *Proceedings of the 10th ACM International Conference on Generative Programming and Component Engineering (GPCE)*, pages 167–176, New York, NY: ACM Press, October 2011. Acceptance rate: 31 % (18/58).
- ★ 70. Christian Kästner, Paolo G. Giarrusso, Tillmann Rendel, Sebastian Erdweg, Klaus Ostermann, and Thorsten Berger. Variability-Aware Parsing in the Presence of Lexical Macros and Conditional Compilation. In *Proceedings of the 26th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)*, pages 805–824, New York, NY: ACM Press, October 2011. Acceptance rate: 37 % (61/166).
- 71. Sebastian Erdweg, Tillmann Rendel, Christian Kästner, and Klaus Ostermann. SugarJ: Library-based Syntactic Language Extensibility. In *Proceedings of the 26th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)*, pages 391–406, New York, NY: ACM Press, October 2011. Acceptance rate: 37 % (61/166). **Distinguished Paper Award.**
- 72. 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 ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE)*, pages 190–200, New York, NY: ACM Press, September 2011. Acceptance rate: 17 % (34/203).
- 73. Janet Feigenspan, Sven Apel, Jörg Liebig, and Christian Kästner. Exploring Software Measures to Assess Program Comprehension. In *Proceedings of the 5th International Symposium on Empirical Software Engineering and Measurement (ESEM)*, pages 1–10, paper 3, Los Alamitos, CA: IEEE Computer Society, September 2011. Acceptance rate: 31 % (33/105).
- 74. Thomas Thüm, Christian Kästner, Sebastian Erdweg, and Norbert Siegmund. Abstract Features in Feature Modeling. In *Proceedings of the 15th International Software Product Line Conference (SPLC)*, pages 191–200, Los Alamitos, CA: IEEE Computer Society, August 2011. Acceptance rate: 29 % (20/69).
- 75. Norbert Siegmund, Marko Rosenmüller, Christian Kästner, Paolo G. Giarrusso, Sven Apel, and Sergiy S. Kolesnikov. Scalable Prediction of Non-functional Properties in Software Product Lines. In *Proceedings of the 15th International Software Product Line Conference (SPLC)*, pages 160–169, Los Alamitos, CA: IEEE Computer Society, August 2011. Acceptance rate: 29 % (20/69). **Best Paper Award.**
- 76. Sven Apel, Florian Heidenreich, Christian Kästner, and Marko Rosenmüller. Third International Workshop on Feature-Oriented Software Development (FOSD 2011). In *Proceedings of the 15th International Software Product Line Conference (SPLC)*, pages 337–338, Los Alamitos, CA: IEEE Computer Society, August 2011.

- ★ 77. Klaus Ostermann, Paolo G. Giarrusso, Christian Kästner, and Tillmann Rendel. Revisiting Information Hiding: Reflections on Classical and Non-classical Modularity. In *Proceedings of the 25th European Conference on Object-Oriented Programming (ECOOP)*, volume 6813 of *Lecture Notes in Computer Science*, pages 155–178, Berlin/Heidelberg: Springer-Verlag, 2011. Acceptance rate: 26 % (26/100).
- 78. Janet Feigenspan, Michael Schulze, Maria Papendieck, Christian Kästner, Raimund Dachsel, Veit Köppen, and Mathias Frisch. Using Background Colors to Support Program Comprehension in Software Product Lines. In *Proceedings of the 15th International Conference on Evaluation and Assessment in Software Engineering (EASE)*, pages 66–75, Institution of Engineering and Technology, 2011. Acceptance rate: 40 % (20/50).
- 79. Michael Stengel, Janet Feigenspan, Mathias Frisch, Christian Kästner, Sven Apel, and Raimund Dachsel. View Infinity: A Zoomable Interface for Feature-Oriented Software Development. In *Proceedings of the 33rd International Conference on Software Engineering (Demonstration Track) (ICSE)*, pages 1031–1033, New York, NY: ACM Press, 2011. Acceptance rate: 37 % (22/60).
- 80. Mario Pukall, Alexander Grebhahn, Reimar Schröter, Christian Kästner, Walter Cazzola, and Sebastian Götz. JavaAdaptor: Unrestricted Dynamic Software Updates for Java. In *Proceedings of the 33rd International Conference on Software Engineering (Demonstration Track) (ICSE)*, pages 989–991, New York, NY: ACM Press, 2011. Acceptance rate: 37 % (22/60).
- ★ 81. Jörg Liebig, Christian Kästner, and Sven Apel. Analyzing the Discipline of Preprocessor Annotations in 30 Million Lines of C Code. In *Proceedings of the 10th ACM International Conference on Aspect-Oriented Software Development (AOSD)*, pages 191–202, New York, NY: ACM Press, March 2011. Acceptance rate: 23 % (21/92).
- 82. Sven Apel, Wolfgang Scholz, Christian Lengauer, and Christian Kästner. Dependences and Interactions in Feature-Oriented Design. In *Proceedings of the 21st IEEE International Symposium on Software Reliability Engineering (ISSRE)*, pages 161–170, Los Alamitos, CA: IEEE Computer Society, October 2010. Acceptance rate: 31 % (40/130).
- 83. Sandro Schulze, Sven Apel, and Christian Kästner. Code Clones in Feature-Oriented Software Product Lines. In *Proceedings of the 9th ACM International Conference on Generative Programming and Component Engineering (GPCE)*, pages 103–112, New York, NY: ACM Press, October 2010. Acceptance rate: 31 % (18/59).
- ★ 84. 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 32nd International Conference on Software Engineering (ICSE)*, pages 105–114, New York, NY: ACM Press, May 2010. Acceptance rate: 14 % (52/380).
- 85. Christian Kästner, Sven Apel, and Gunter Saake. Virtuelle Trennung von Belangen (Präprozessor 2.0). In *Proceedings of the Software Engineering 2010 – Fachtagung des GI-Fachbereichs Softwaretechnik (SE)*, volume P-159 of *Lecture Notes in Informatics*, pages 165–176, Bonn, Germany: Gesellschaft für Informatik (GI), February 2010. Acceptance rate: 36 % (17/47).
- ★ 86. Christian Kästner, Sven Apel, and Martin Kuhlemann. A Model of Refactoring Physically and Virtually Separated Features. In *Proceedings of the 8th ACM International Conference on Generative Programming and Component Engineering (GPCE)*, pages 157–166, New York, NY: ACM Press, October 2009. Acceptance rate: 31 % (19/62).
- 87. Martin Kuhlemann, Don Batory, and Christian Kästner. Safe Composition of Non-Monotonic Features. In *Proceedings of the 8th ACM International Conference on Generative Programming and Component Engineering*

- (GPCE), pages 177–185, New York, NY: ACM Press, October 2009. Acceptance rate: 31 % (19/62).
88. Christian Kästner, Sven Apel, Syed Saif ur Rahman, Marko Rosenmüller, Don Batory, and Gunter Saake. On the Impact of the Optional Feature Problem: Analysis and Case Studies. In *Proceedings of the 13rd International Software Product Line Conference (SPLC)*, pages 181–190, Pittsburgh, PA: SEI, August 2009. Acceptance rate: 36 % (30/83).
 89. Sven Apel, Florian Janda, Salvador Trujillo, and Christian Kästner. Model Superimposition in Software Product Lines. In *Proceedings of the 2nd International Conference on Model Transformation (ICMT)*, volume 5563 of *Lecture Notes in Computer Science*, pages 4–19, Berlin/Heidelberg: Springer-Verlag, June 2009. Acceptance rate: 21 % (14/67).
 90. Sven Apel, Christian Kästner, Armin Größlinger, and Christian Lengauer. Feature (De)composition in Functional Programming. In *Proceedings of the 8th International Conference on Software Composition (SC) (SC)*, volume 5634 of *Lecture Notes in Computer Science*, pages 9–26, Berlin/Heidelberg: Springer-Verlag, July 2009. Acceptance rate: 33 % (10/30).
 91. Stefan Boxleitner, Sven Apel, and Christian Kästner. Language-Independent Quantification and Weaving for Feature Composition. In *Proceedings of the 8th International Conference on Software Composition (SC) (SC)*, volume 5634 of *Lecture Notes in Computer Science*, pages 45–54, Berlin/Heidelberg: Springer-Verlag, July 2009. Acceptance rate: 33 % (10/30). Short Paper.
 92. Christian Kästner, Sven Apel, Salvador Trujillo, Martin Kuhlemann, and Don Batory. Guaranteeing Syntactic Correctness for all Product Line Variants: A Language-Independent Approach. In *Proceedings of the 47th International Conference Objects, Models, Components, Patterns (TOOLS EUROPE)*, volume 33 of *Lecture Notes in Business Information Processing*, pages 175–194, Berlin/Heidelberg: Springer-Verlag, June 2009. Acceptance rate: 28 % (19/67).
 93. Christian Kästner, Thomas Thüm, Gunter Saake, Janet Feigenspan, Thomas Leich, Fabian Wielgorz, and Sven Apel. FeatureIDE: Tool Framework for Feature-Oriented Software Development. In *Proceedings of the 31st International Conference on Software Engineering (ICSE)*, pages 611–614, Los Alamitos, CA: IEEE Computer Society, May 2009. Acceptance rate: 33 % (24/72). Formal Demonstration paper.
 94. Marko Rosenmüller, Christian Kästner, Norbert Siegmund, Sagar Sunkle, Sven Apel, Thomas Leich, and Gunter Saake. SQL à la Carte – Toward Tailor-made Data Management. In *Proceedings of the 13. GI-Fachtagung Datenbanksysteme für Business, Technologie und Web (BTW)*, volume P-144 of *Lecture Notes in Informatics*, pages 117–136, Bonn, Germany: Gesellschaft für Informatik (GI), March 2009.
 95. Norbert Siegmund, Christian Kästner, Marko Rosenmüller, Florian Heidenreich, Sven Apel, and Gunter Saake. Bridging the Gap between Variability in Client Application and Database Schema. In *Proceedings of the 13. GI-Fachtagung Datenbanksysteme für Business, Technologie und Web (BTW)*, volume P-144 of *Lecture Notes in Informatics*, pages 297–306, Bonn, Germany: Gesellschaft für Informatik (GI), March 2009.
 96. Sven Apel, Christian Kästner, and Christian Lengauer. Vergleich und Integration von Komposition und Annotation zur Implementierung von Produktlinien. In *Proceedings of the Software Engineering 2009 – Fachtagung des GI-Fachbereichs Softwaretechnik (SE)*, volume P-143 of *Lecture Notes in Informatics*, pages 101–112, Bonn, Germany: Gesellschaft für Informatik (GI), March 2009.
 - ★ 97. Thomas Thüm, Don Batory, and Christian Kästner. Reasoning about Ed-

- its to Feature Models. In *Proceedings of the 31st International Conference on Software Engineering (ICSE)*, pages 254–264, Los Alamitos, CA: IEEE Computer Society, May 2009. Acceptance rate: 12 % (50/405).
- ★ 98. Sven Apel, Christian Kästner, and Christian Lengauer. FeatureHouse: Language-Independent, Automated Software Composition. In *Proceedings of the 31st International Conference on Software Engineering (ICSE)*, pages 221–231, Los Alamitos, CA: IEEE Computer Society, May 2009. Acceptance rate: 12 % (50/405).
 - 99. Norbert Siegmund, Marko Rosenmüller, Martin Kuhlemann, Christian Kästner, and Gunter Saake. Measuring Non-functional Properties in Software Product Lines for Product Derivation. In *Proceedings of the 15th Asia-Pacific Software Engineering Conference (APSEC)*, pages 187–194, Los Alamitos, CA: IEEE Computer Society, December 2008. Acceptance rate: 30 % (66/221).
 - 100. Mario Pukall, Christian Kästner, and Gunter Saake. Towards Unanticipated Runtime Adaptation of Java Applications. In *Proceedings of the 15th Asia-Pacific Software Engineering Conference (APSEC)*, pages 85–92, Los Alamitos, CA: IEEE Computer Society, December 2008. Acceptance rate: 30 % (66/221).
 - 101. Sven Apel, Christian Kästner, and Christian Lengauer. Feature Featherweight Java: A Calculus for Feature-Oriented Programming and Stepwise Refinement. In *Proceedings of the 7th ACM International Conference on Generative Programming and Component Engineering (GPCE)*, pages 101–112, New York, NY: ACM Press, August 2008. Acceptance rate: 29 % (16/55).
 - 102. Sven Apel, Christian Kästner, and Don Batory. Program Refactoring using Functional Aspects. In *Proceedings of the 7th ACM International Conference on Generative Programming and Component Engineering (GPCE)*, pages 161–170, New York, NY: ACM Press, August 2008. Acceptance rate: 29 % (16/55).
 - 103. Chang Hwan Peter Kim, Christian Kästner, and Don Batory. On the Modularity of Feature Interactions. In *Proceedings of the 7th ACM International Conference on Generative Programming and Component Engineering (GPCE)*, pages 23–34, New York, NY: ACM Press, August 2008. Acceptance rate: 29 % (16/55).
 - ★104. Christian Kästner, and Sven Apel. Type-checking Software Product Lines – A Formal Approach. In *Proceedings of the 23rd IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 258–267, Los Alamitos, CA: IEEE Computer Society, September 2008. Acceptance rate: 11 % (30/280).
 - 105. Sven Apel, Christian Lengauer, Bernhard Möller, and Christian Kästner. An Algebra for Features and Feature Composition. In *Proceedings of the 12th International Conference on Algebraic Methodology and Software Technology (AMAST)*, volume 5140 of *Lecture Notes in Computer Science*, pages 36–50, Berlin/Heidelberg: Springer-Verlag, July 2008. Acceptance rate: 47 % (27/58).
 - ★106. Christian Kästner, Sven Apel, and Martin Kuhlemann. Granularity in Software Product Lines. In *Proceedings of the 30th International Conference on Software Engineering (ICSE)*, pages 311–320, New York, NY: ACM Press, May 2008. Acceptance rate: 15 % (56/371).
 - 107. Christian Kästner. CIDE: Decomposing Legacy Applications into Features. In *Proceedings of the 11st International Software Product Line Conference, second volume (Demonstration) (SPLC)*, pages 149–150, 2007.
 - ★108. Christian Kästner, Sven Apel, and Don Batory. A Case Study Implementing Features Using AspectJ. In *Proceedings of the 11st International Software Product Line Conference (SPLC)*, pages 223–232, Los Alamitos, CA: IEEE Computer Society, September 2007. Acceptance rate: 35 % (28/80).

Invited Papers

109. Christian Kästner. Virtual Separation of Concerns: Toward Preprocessors 2.0. *Information Technology (it)*, 54(1):42–46, 2012.
110. Christian Kästner. Virtuelle Trennung von Belangen. In *Ausgezeichnete Informatikdissertationen 2010*, volume D-11 of *Lecture Notes in Informatics*, pages 121–130, Bonn, Germany: Gesellschaft für Informatik (GI), 2011. Invited paper.
- ★111. Christian Kästner, and Sven Apel. Virtual Separation of Concerns – A Second Chance for Preprocessors. *Journal of Object Technology (JOT)*, 8(6):59–78, September 2009. Refereed Column.
- ★112. Sven Apel, and Christian Kästner. An Overview of Feature-Oriented Software Development. *Journal of Object Technology (JOT)*, 8(5):49–84, July/August 2009. Refereed Column.

Refereed Workshop Papers, Posters, and Tool Demos

113. Luyao Ren, Shurui Zhou, and Christian Kästner. Poster: Forks Insight: Providing an Overview of GitHub Forks. In *Proceedings of the Companion of the International Conference on Software Engineering (ICSE)*, New York, NY: ACM Press, 2018. Poster.
114. Larissa Rocha Soares, Jens Meinicke, Sarah Nadi, Christian Kästner, and Eduardo Santana de Almeida. VarXplorer: Lightweight Process for Dynamic Inspection of Feature Interactions. In *Proceedings of the 12nd Int'l Workshop on Variability Modelling of Software-Intensive Systems (VaMoS)*, pages 59–66, 2018.
115. Meng Meng, Jens Meinicke, Chu-Pan Wong, Eric Walkingshaw, and Christian Kästner. A Choice of Variational Stacks: Exploring Variational Data Structures. In *Proceedings of the 11st Int'l Workshop on Variability Modelling of Software-Intensive Systems (VaMoS)*, pages 28–35, 2017.
116. Jafar Al-Kofahi, Tien N. Nguyen, and Christian Kästner. Escaping AutoHell: A Vision For Automated Analysis and Migration of Autotools Build Systems. In *Proceedings of the 4rd International Workshop on Release Engineering (Releng)*, pages 12–15, New York, NY: ACM Press, November 2016.
117. Prasad Kawthekar, and Christian Kästner. Sensitivity Analysis For Building Evolving & Adaptive Robotic Software. In *Proceedings of the IJCAI Workshop on Autonomous Mobile Service Robots (WSR)*, , July 2016.
118. Christopher Bogart, Christian Kästner, and James Herbsleb. When it Breaks, it Breaks: How Ecosystem Developers Reason About the Stability of Dependencies. In *Proceedings of the ASE Workshop on Software Support for Collaborative and Global Software Engineering (SCGSE)*, pages 86–89, November 2015.
119. Waqar Ahmad, Joshua Sunshine, Christian Kästner, and Adam Wynne. Enforcing Fine-Grained Security and Privacy Policies in an Ecosystem within an Ecosystem. In *Proceedings of the 3rd International Workshop on Mobile Development Lifecycle (MobileDeLi)*, pages 28–34, October 2015.
120. Shurui Zhou, Jafar Al-Kofahi, Tien N. Nguyen, Christian Kästner, and Sarah Nadi. Extracting Configuration Knowledge from Build Files with Symbolic Analysis. In *Proceedings of the 3rd International Workshop on Release Engineering (Releng)*, pages 20–23, New York, NY: ACM Press, May 2015.
121. Sven Apel, Sergiy S. Kolesnikov, Norbert Siegmund, Christian Kästner, and Brady Garvin. Exploring Feature Interactions in the Wild: The New Feature-Interaction Challenge. In *Proceedings of the 5th International Workshop on Feature-Oriented Software Development (FOSD)*, pages 1–8, New York, NY: ACM Press, October 2013. Acceptance rate: 75 % (6/8).

122. Leonardo Passos, Krzysztof Czarnecki, Sven Apel, Andrzej Wąsowski, Christian Kästner, and Jianmei Guo. Feature Oriented Software Evolution. In *Proceedings of the 7th Int'l Workshop on Variability Modelling of Software-Intensive Systems (VaMoS)*, pages 17:1–17:8, New York, NY: ACM Press, January 2013. Acceptance rate: 42 % (19/45).
123. Sergiy S. Kolesnikov, Sven Apel, Norbert Siegmund, Stefan Sobernig, Christian Kästner, and Semah Senkaya. Predicting Quality Attributes of Software Product Lines Using Software and Network Measures and Feature Sampling. In *Proceedings of the 7th Int'l Workshop on Variability Modelling of Software-Intensive Systems (VaMoS)*, pages 6:1–6:5, New York, NY: ACM Press, January 2013. Acceptance rate: 42 % (19/45).
124. Alexander von Rhein, Sven Apel, Christian Kästner, Thomas Thüm, and Ina Schaefer. The PLA Model: On the Combination of Product-Line Analyses. In *Proceedings of the 7th Int'l Workshop on Variability Modelling of Software-Intensive Systems (VaMoS)*, pages 14:1–14:8, New York, NY: ACM Press, January 2013. Acceptance rate: 42 % (19/45).
125. Christian Kästner, Alexander von Rhein, Sebastian Erdweg, Jonas Pusch, Sven Apel, Tillmann Rendel, and Klaus Ostermann. Toward Variability-Aware Testing. In *Proceedings of the 4th International Workshop on Feature-Oriented Software Development (FOSD)*, pages 1–8, New York, NY: ACM Press, September 2012. Acceptance rate: 57 % (8/14).
126. Janet Siegmund, Christian Kästner, Jörg Liebig, and Sven Apel. Comparing Program Comprehension of Physically and Virtually Separated Concerns. In *Proceedings of the 4th International Workshop on Feature-Oriented Software Development (FOSD)*, pages 17–24, New York, NY: ACM Press, September 2012. Acceptance rate: 57 % (8/14).
127. Paolo G. Giarrusso, Klaus Ostermann, Michael Eichberg, Tillmann Rendel, and Christian Kästner. Reifying and Optimizing Collection Queries for Modularity. In *Proceedings of the Companion of the 26th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)*, pages 77–78, New York, NY: ACM Press, 2012. Poster.
128. Janet Feigenspan, Christian Kästner, Jörg Liebig, Sven Apel, and Stefan Hanenberg. Measuring Programming Experience. In *Proceedings of the 20th International Conference on Program Comprehension (ICPC)*, pages 73–82, Los Alamitos, CA: IEEE Computer Society, 2012. Acceptance rate: 41 % (21/51).
- ★129. Christian Kästner, Sven Apel, and Klaus Ostermann. The Road to Feature Modularity? In *Proceedings of the 3rd International Workshop on Feature-Oriented Software Development (FOSD)*, pages 5:1–5:8, New York, NY: ACM Press, September 2011.
130. Janet Feigenspan, Maria Papendieck, Christian Kästner, Mathias Frisch, and Raimund Dachsel. FeatureCommander: Colorful #ifdef World. In *Proceedings of the 15th International Software Product Line Conference (SPLC), second volume (Demonstration) (SPLC)*, pages 48:1–48:2, New York, NY: ACM Press, September 2011.
131. Sebastian Erdweg, Lennart C.L. Kats, Tillmann Rendel, Christian Kästner, Klaus Ostermann, and Eelco Visser. SugarJ: Library-Based Language Extensibility. In *Proceedings of the Companion of the 26th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA)*, pages 187–188, New York, NY: ACM Press, 2011. Poster.
132. Sebastian Erdweg, Lennart C.L. Kats, Tillmann Rendel, Christian Kästner, Klaus Ostermann, Lennart C.L. Kats, and Eelco Visser. Library-Based Model-Driven Software Development with SugarJ. In *Proceedings*

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