Michael Pradel

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Research Interests

My research focuses on tools and techniques for building reliable, efficient, and secure software. To this end, I work on testing and analysis of complex software systems. As part of my research, I have contributed to techniques that detected thousands of bugs and security problems in widely used software.

Positions and Experience

Oct 2014 – now **TU Darmstadt**, *Germany.*
Assistant Professor (since April 2017), before: Independent research group leader

Sep 2013 – Aug 2014 **University of California, Berkeley**, *USA.*
Postdoctoral researcher

Jan 2013 – Jun 2013 **ETH Zurich**, *Switzerland.*
Postdoctoral researcher and lecturer in the Laboratory for Software Technology lead by Thomas Gross

2008 – 2012 **ETH Zurich**, *Switzerland.*
Research assistant in the Laboratory for Software Technology lead by Thomas Gross

Aug 2006 – Sep 2006 **Fraunhofer Institute for Secure Information Technology SIT**, *Darmstadt, Germany.*
Internship. Survey of static source code analysis tools. Study on Ajax-related security issues

Jul 2005 – Aug 2005 **Computer science research center FZI**, *Karlsruhe, Germany.*
Internship. Developed a Java application to visualize large object-oriented software

2001 – 2002 **Community service**, *Jena, Germany.*
Day-care center for disabled children

Education

2008 – 2012 **ETH Zurich**, *Switzerland.*
Ph.D. (Dr. sc.) in computer science. Laboratory for Software Technology lead by Thomas Gross.
Dissertation: *Program Analyses for Automatic and Precise Error Detection.*
Software Engineering Award of the Ernst-Denert-Foundation (best dissertation)
Examinors: Thomas Gross, Jonathan Aldrich, Andreas Zeller

Jan 2008 – Jul 2008 **Ecole Polytechnique Fédérale de Lausanne (EPFL)**, *Switzerland.*
Diploma thesis in the Programming Methods Laboratory lead by Martin Odersky.
Best student paper award at ICSOFT'08

2006 – 2008 **TU Dresden**, *Germany.*
Diplom (≈ M.S.) in computer science, with distinction. Specialization: software engineering.
Awarded as one of the best engineering graduates of the year

2004 – 2006 **Ecole Centrale Paris**, *France.*
Diplôme d'Ingénieur (≈ M.S.) in engineering

2002 – 2004 **TU Dresden**, *Germany.*
Vordiplom (≈ B.S.) in computer science

Peer-reviewed Conference Publications

ICSE'18 **ConflictJS: Finding and Understanding Conflicts Between JavaScript Libraries**.
Jibesh Patra, Pooja N. Dixit, Michael Pradel. *International Conference on Software Engineering*

NDSS'18 **Synode: Understanding and Automatically Preventing Injection Attacks on Node.js**.
Cristian-Alexandru Staicu, Michael Pradel, Ben Livshits. *Network and Distributed System Security Symposium*

CGO'18 **Synthesizing Programs that Expose Performance Bottlenecks**.
Luca Della Toffola, Michael Pradel, Thomas R. Gross. *International Symposium on Code Generation and Optimization*, pages 314–326

ASE'17 **Automatically Reducing Tree-Structured Test Inputs**.
Satia Herfert, Jibesh Patra, Michael Pradel. *International Conference on Automated Software Engineering*, pages 861–871

ASE'17 **Saying "hi!" Is Not Enough: Mining Inputs for Effective Test Generation**.
Luca Della Toffola, Cristian-Alexandru Staicu, Michael Pradel. *International Conference on Automated Software Engineering*, pages 44–49

OOPSLA'17 **Detecting Argument Selection Defects**.
Andrew Rice, Edward Aftandilian, Ciera Jaspan, Emily Johnston, Michael Pradel, Yulissa Arroyo-Paredes. *Conference on Object-Oriented Programming, Systems, Languages, and Applications*, pages 104:1–104:22

PLDI'17 **Systematic Black-Box Analysis of Collaborative Web Applications**.
Marina Billes, Anders Møller, Michael Pradel. *Conference on Programming Language Design and Implementation*, pages 171–184

ISSTA'17 **An Actionable Performance Profiler for Optimizing the Order of Evaluations**.
Marija Selakovic, Thomas Glaser, Michael Pradel. *International Symposium on Software Testing and Analysis*, pages 170–180

ICSE'17 **Making Malory Behave Maliciously: Targeted Fuzzing of Android Execution Environments**.
Siegfried Rasthofer, Steven Arzt, Stefan Triller, Michael Pradel. *International Conference on Software Engineering*, pages 300-311

ICSE'17 **Efficient Detection of Thread Safety Violations via Coverage-Guided Generation of Concurrent Tests**.
Ankit Choudhary, Shan Lu, Michael Pradel. *International Conference on Software Engineering*, pages 266-277

ICSE'16 **Performance Issues and Optimizations in JavaScript: An Empirical Study**.
Marija Selakovic, Michael Pradel. *International Conference on Software Engineering*, pages 61–72

ICSE'16 **Nomen Est Omen: Exploring and Exploiting Similarities between Argument and Parameter Names**.
Hui Liu, Qiurong Liu, Cristian-Alexandru Staicu, Michael Pradel, Yue Luo. *International Conference on Software Engineering*, pages 1063–1073

ISSTA'16 **Monkey See, Monkey Do: Effective Generation of GUI Tests with Inferred Macro Events**.
Markus Ermuth, Michael Pradel. *International Symposium on Software Testing and Analysis*, pages 82–93

ISSTA'16 **SyncProf: Detecting, Localizing, and Optimizing Synchronization Bottlenecks**.
Tingting Yu, Michael Pradel. *International Symposium on Software Testing and Analysis*, pages 389–400

OOPSLA'15 **Performance Problems You Can Fix: A Dynamic Analysis of Memoization Opportunities**.
Luca Della Toffola, Michael Pradel, Thomas R. Gross. *Conference on Object-Oriented Programming, Systems, Languages, and Applications*, pages 607–622

FSE'15 **JITProf: Pinpointing JIT-Unfriendly JavaScript Code**.
Liang Gong, Michael Pradel, Koushik Sen. *European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, pages 357–368

ISSTA'15 **DLint: Dynamically Checking Bad Coding Practices in JavaScript**.
Liang Gong, Michael Pradel, Manu Sridharan, Koushik Sen. *International Symposium on Software Testing and Analysis*, pages 94–105

ECOOP'15 **The Good, the Bad, and the Ugly: An Empirical Study of Implicit Type Conversions in JavaScript**.
Michael Pradel, Koushik Sen. *European Conference on Object-Oriented Programming*, pages 519–541

ICSE'15 **TypeDevil: Dynamic Type Inconsistency Analysis for JavaScript**.
Michael Pradel, Parker Schuh, Koushik Sen. *International Conference on Software Engineering*, pages 314–324

OOPSLA'14	**EventBreak: Analyzing the Responsiveness of User Interfaces through Performance-Guided Test Generation**. Michael Pradel, Parker Schuh, George Necula, Koushik Sen. *Conference on Object-Oriented Programming, Systems, Languages, and Applications*, pages 33-47
ISSTA'14	**Performance Regression Testing of Concurrent Classes**. Michael Pradel, Markus Huggler, Thomas R. Gross. *International Symposium on Software Testing and Analysis*, pages 13–25
ASE'13	**Bita: Coverage-guided, Automatic Testing of Actor Programs**. Samira Tasharofi, Michael Pradel, Yu Lin, Ralph Johnson. *International Conference on Automated Software Engineering*, pages 114-224
ICSE'13	**Automatic Testing of Sequential and Concurrent Substitutability**. Michael Pradel, Thomas R. Gross. *International Conference on Software Engineering*, pages 282–291
PLDI'12	**Fully Automatic and Precise Detection of Thread Safety Violations**. Michael Pradel, Thomas R. Gross. *Conference on Programming Language Design and Implementation*, pages 521–530
ISSTA'12	**Static Detection of Brittle Parameter Typing**. Michael Pradel, Severin Heiniger, Thomas R. Gross. *International Symposium on Software Testing and Analysis*, pages 265–275
ICSE'12	**Leveraging Test Generation and Specification Mining for Automated Bug Detection without False Positives**. Michael Pradel, Thomas R. Gross. *International Conference on Software Engineering*, pages 288–298
ICSE'12	**Statically Checking API Protocol Conformance with Mined Multi-Object Specifications**. Michael Pradel, Ciera Jaspan, Jonathan Aldrich, Thomas R. Gross. *International Conference on Software Engineering*, pages 925–935
ICSE'12	**Ballerina: Automatic Generation and Clustering of Efficient Random Unit Tests for Multithreaded Code**. Adrian Nistor, Qingzhou Luo, Michael Pradel, Thomas R. Gross, Darko Marinov. *International Conference on Software Engineering*, pages 727–737
ISSTA'11	**Detecting Anomalies in the Order of Equally-typed Method Arguments**. Michael Pradel, Thomas R. Gross. *International Symposium on Software Testing and Analysis*, pages 232–242
ICSM'10	**A Framework for the Evaluation of Specification Miners Based on Finite State Machines**. Michael Pradel, Philipp Bichsel, Thomas R. Gross. *International Conference on Software Maintenance*, pages 1–10
ASE'09	**Automatic Generation of Object Usage Specifications from Large Method Traces**. Michael Pradel, Thomas R. Gross. *International Conference on Automated Software Engineering*, pages 371–382
ICSOFT'08	**Scala Roles - A Lightweight Approach towards Reusable Collaborations**. Michael Pradel, Martin Odersky. *International Conference on Software and Data Technologies*, pages 13–20. **Best student paper award**
RR'08	**Ontology Design and Reuse with Conceptual Roles**. Jakob Henriksson, Michael Pradel, Steffen Zschaler, Jeff Z. Pan. *International Conference on Web Reasoning and Rule Systems*, pages 104–118

Peer-reviewed Journal Publications and Book Chapters

2017	**A Survey of Dynamic Analysis and Test Generation for JavaScript**. Esben Andreasen, Liang Gong, Anders Møller, Michael Pradel, Marija Selakovic, Koushik Sen, Cristian-Alexandru Staicu. *ACM Computing Surveys (CSUR)*, 50(5), pages 66:1–66:36
2017	**Pinpointing and Repairing Performance Bottlenecks in Concurrent Programs**. Tingting Yu, Michael Pradel. *Empirical Software Engineering (EMSE)*, to appear
2013	**Name-based Analysis of Equally Typed Method Arguments**. Michael Pradel, Thomas R. Gross. *IEEE Transactions on Software Engineering (TSE)*, 39(8), pages 1127–1143
2011	**Mining API Usage Protocols from Large Method Traces**. Michael Pradel, Thomas R. Gross. *Mining Software Specifications: Methodologies and Applications*, pages 85–112. Edited by David Lo, Khoo Siau Cheng, Jiawei Han, and Chao Liu. CRC Press

2010 **A Good Role Model for Ontologies: Collaborations**.
Michael Pradel, Jakob Henriksson, Uwe Aßmann. *International Journal of Enterprise Information Systems*, 6(1), pages 1–11

Technical Reports, Workshops, and Other Writings

2017 **Deep Learning to Find Bugs**.
Michael Pradel, Koushik Sen. Technical Report No. TUD-CS-2017-0295. TU Darmstadt.

Context2Name: A Deep Learning-Based Approach to Infer Natural Variable Names from Usage Contexts.
Rohan Bavishi, Michael Pradel, Koushik Sen. Technical Report No. TUD-CS-2017-0296. TU Darmstadt.

Automated Program Repair (Dagstuhl Seminar 17022).
Sunghun Kim, Claire Le Goues, Michael Pradel, Abhik Roychoudhury

Front Matter - ECOOP 2017, Artifact Evaluation.
Philipp Haller, Michael Pradel, Tijs van der Storm

2016 **Understanding and Automatically Preventing Injection Attacks on Node.js**.
Cristian-Alexandru Staicu, Michael Pradel, Ben Livshits. Technical Report No. TUD-CS-2016-14663. TU Darmstadt.

Learning to Fuzz: Application-Independent Fuzz Testing with Probabilistic, Generative Models of Input Data.
Jibesh Patra, Michael Pradel. Technical Report No. TUD-CS-2016-14664. TU Darmstadt.

Language-Independent Fuzz Testing with Probabilistic, Generative Models.
Jibesh Patra, Michael Pradel. *European Conference on Object-Oriented Programming (ECOOP)* **Distinguished Poster Award**

2015 **Performance Issues and Optimizations in JavaScript: An Empirical Study**.
Marija Selakovic, Michael Pradel. Technical Report No. TUD-CS-2015-1249. TU Darmstadt. Superseded by ICSE'16 paper.

Automatically Fixing Real-World JavaScript Performance Bugs.
Marija Selakovic, Michael Pradel. *International Conference on Software Engineering (ICSE)*, poster track.

DLint: Dynamically Checking Bad Coding Practices in JavaScript.
Liang Gong, Michael Pradel, Manu Sridharan, Koushik Sen. Technical Report No. UCB/EECS-2015-5. University of California, Berkeley. Superseded by ISSTA'15 paper.

2014 **TypeDevil: Dynamic Type Inconsistency Analysis for JavaScript**.
Michael Pradel, Parker Schuh, Koushik Sen. Technical Report No. UCB/EECS-2014-171. University of California, Berkeley. Superseded by ICSE'15 paper.

JITProf: Pinpointing JIT-unfriendly JavaScript Code.
Liang Gong, Michael Pradel, Koushik Sen. Technical Report No. UCB/EECS-2014-144. University of California, Berkeley

2008 **Explicit Relations with Roles - A Library Approach**.
Michael Pradel. *Workshop on Relationships and Associations in Object-Oriented Languages (RAOOL) at OOPSLA'08*

2007 **A Good Role Model for Ontologies: Collaborations**.
Michael Pradel, Jakob Henriksson, Uwe Aßmann. *International Workshop on Semantic-Based Software Development at OOPSLA'07*

Awards and Distinctions

July 2016 Distinguished Poster Award at ECOOP'16 for *Language-Independent Fuzz Testing with Probabilistic, Generative Models*

January 2014 Software Engineering Award of the Ernst-Denert-Foundation for the best dissertation (€5,000)

November 2009 Enno Heidebroek award (best engineering graduates at TU Dresden)

October 2009 Second winner in the Student Research Competition at OOPSLA'09 for paper *Dynamically Inferring, Refining, and Checking API Usage Protocols*

July 2008 Best student paper award at the International Conference on Software and Data Technology for paper *Scala Roles - A Lightweight Approach towards Reusable Collaborations*

External Funding

October 2017	Individual research project funded by the German Research Foundation (DFG). *Perf4JS: Automatically Fixing Performance Problems in Real-World JavaScript Applications*. Principal investigator.
July 2017	Collaborative research project funded by the State of Hesse. *Software-Factory 4.0*. Principal investigator.
May 2017	Collaborative research project funded by the German Federal Ministry of Education and Research (BMBF) and by the State of Hesse. *Center for Research in Security and Privacy (CRISP)*. Principal investigator.
October 2015	Collaborative research project funded by the German Federal Ministry of Education and Research (BMBF) and by the State of Hesse. *Center for Research in Security and Privacy (CRISP)*. Principal investigator.
October 2014	Collaborative research project funded by the German Federal Ministry of Education and Research (BMBF). *European Center for Security and Privacy by Design (EC-SPRIDE)*. Principal investigator.
September 2014	Emmy Noether research group funded by DFG. *ConcSys: Reliable and Efficient Complex, Concurrent Software Systems*. Principal investigator. €1,300,000
Spring 2008	Scholarship of the German Academic Exchange Service DAAD. €4,250
2004 – 2006	Scholarship of the French-German University UFA/DFH. €6,000
	Note: In addition to the above, I have obtained various smaller grants (<€1,000) for myself and my students, e.g., travel grants from ACM SIGPLAN and ACM SIGSOFT.

Talks

Note: The following does not include regular paper presentations at conferences and workshops.

2018	Dagstuhl seminar on *Genetic Improvement of Software*
2017	Dagstuhl seminar on *Testing and Verification of Compilers*
	Imperial College London. Hosts: Ben Livshits and Alastair Donaldson
	CREST workshop on *Bimodal Program Analysis* at University College London
	University of Edinburgh. Host: Paul Jackson
	CISPA, Saarbrücken. Host: Michael Backes
	Meeting of the IFIP working group 2.4 (Software Implementation Technology)
	University of Lugano (USI). Host: Mauro Pezze
	Karlsruhe Institute of Technology. Host: Ralf Reussner
	Stanford University. Host: Alex Aiken
	Google, Mountain View. Host: Omer Tripp
	Dagstuhl seminar on *Automated Program Repair*
	University of Passau. Host: Christian Lengauer
	SE 2017
2016	Meeting of the IFIP working group 2.4 (Software Implementation Technology)
	IMDEA Software Institute, Madrid. Host: Alessandra Gorla
	Massachusetts Institute of Technology (MIT). Host: Martin Rinard
	Harvard University. Host: Stephen Chong
	Workshop at the ECOOP program committee meeting.
	University of Stuttgart. Host: Daniel Weiskopf
	TU Dresden. Host: Ivo F. Sbalzarini
2015	ETH Zurich. Host: Thomas R. Gross
	Purdue University. Host: Mathias Payer
	Aarhus University. Host: Anders Møller
	Workshop on Programming Language Evolution. Invited speaker

	Advisory Council of University Professors for the German Informatics Society (GIBU), Invited speaker
	SE 2015. Two talks
	Max Planck Institute for Software Systems, Host: Viktor Vafeiadis
2014	Workshop on Software Engineering for Parallel Systems. Invited speaker
	Mozilla Research, San Francisco. Host: Michael Bebenita
	University of California, Davis. Host: Zhendong Su
	Google, Mountain View. Host: Ciera Jaspan
	Samsung Research, San Jose. Host: Satish Chandra
	TU Darmstadt. Hosts: Mira Mezini and Eric Bodden
	SE 2014, Kiel. Award talk on the occasion of receiving the Software Engineering award of the Ernst-Denert-Foundation for the best dissertation
	Meeting of the IFIP working group 2.4 (Software Implementation Technology)
2013	University of Lugano (USI). Host: Matthias Hauswirth
	TU München. Host: Alexander Pretschner
	TU Kaiserslautern. Host: Arnd Poetzsch-Heffter
	TU Berlin. Host: Jean-Pierre Seifert
	TU Dresden. Host: Uwe Assmann
	Saarland University. Host: Andreas Zeller
	University of Bern. Host: Oscar Nierstrasz
	University of Zurich. Host: Harald Gall
	Karlsruhe Institute of Technology. Host: Walter Tichy
	TU Darmstadt. Hosts: Mira Mezini and Eric Bodden
2012	Coverity, San Francisco. Host: Murali Krishna Ramanathan
	University of California, Berkeley. Host: Koushik Sen
	University of Washington. Host: Michael Ernst
	Google, Zurich. Host: Andreas Leitner
2011	Google, Zurich. Hosts: Jürgen Allgayer and Andreas Leitner
	University of Waterloo. Hosts: Ondrej Lhotak and Patrick Lam
	Carnegie Mellon University. Host: Jonathan Aldrich
2010	Dagstuhl seminar on *Relationships, Objects, Roles, and Queries in Modern Programming Languages*
	Saarland University. Hosts: Sebastian Hack and Andreas Zeller
2009	Victoria University of Wellington. Host: David J. Pearce

Teaching Experience

Lecturer

Winter 2017/18	**Program Testing and Analysis**. Integrated course at TU Darmstadt. About 100 students.
Summer 2017	**Analyzing Software with Deep Learning**. Integrated course at TU Darmstadt. About 300 students. Newly designed course. In addition to a final exam, students work on a larger coding project.
Winter 2016/17	**Program Testing and Analysis**. Integrated course at TU Darmstadt. About 80 students.
Winter 2015/16	**Program Testing and Analysis**. Integrated course at TU Darmstadt. About 60 students. Newly designed course (13 lectures of 90 minutes). In addition to a final exam, students work on a larger coding project and write a term paper.
Winter 2014/15	**Program Analysis**. Seminar at TU Darmstadt. 10-20 students. Newly designed course.

Spring 2013	**Software Architecture and Engineering**.
	Core undergraduate course at ETH Zurich. About 100 students. Co-taught with Martin Vechev. Re-designed and extended existing course. Full responsibility for 13 lectures of 90 minutes, exercise sessions, a larger coding project, and for managing a group of teaching assistants.
Fall 2012	**Compiler Design**.
	Replacement lecturer for one lecture of 90 minutes, at ETH Zurich.

Teaching Assistant

Teaching assistantships involve preparing and presenting exercises, preparing and grading exams, organizing office hours, and organizing larger coding projects.

Fall 2012	**Compiler Design**.
Fall 2011	**Compiler Design**.
Fall 2009	**System Programming and Computer Architecture**.
Fall 2008	**Computer Architecture**.
Fall 2008	**System Programming**.

Mentor

Spring 2011	**Software Engineering seminar**.
Fall 2008	**Software Engineering seminar**.

Advising and Mentoring

PhD students	Daniel Lehmann. Since December 2017
	Andrew Habib. Since October 2015
	Marina Billes. Since April 2015
	Jibesh Patra. Since March 2015
	Marija Selakovic. Since October 2014
	Cristian-Alexandru Staicu. Since October 2014
Master theses	Prabhjot Singh. *Deep Assist: Contextual Code Assistance using Deep Learning*. 2018
	Saeed Ehteshamifar. *Chameleon: A Benchmark for Analyzers of Malicious PDF Documents and Anti-Evasion Techniques*. 2017
	Daniel Lehmann. *Automatic Testing of Interactive JavaScript Debuggers*. 2017
	Sebastian Ruhleder. *Automatic Generation of Performance Benchmarks for JavaScript Libraries*. 2017
	Dileep R. K. Murthy. *Change-aware Dynamic Program Analysis*. 2016
	Pooja Dixit. *Detecting Unexpected Interferences between Scripts in JavaScript Applications*. 2016. See paper at ICSE'18
	Markus Ermuth. *Effective UI-Level Test Generation for Web Applications through Inferred Macro Events*. 2015. See paper at ISSTA'16
	Ankit Choudhary. *Coverage-driven Generation of Concurrent Tests*. 2015. See paper at ICSE'17
	Michael Fäs. *Automatic and Precise Detection of Deadlocks in Libraries*. 2013
	Markus Huggler. *Performance Regression Testing for Thread-safe Classes*. 2013. See paper at ISSTA'14
	Jérémie Bresson. *Finding API Usage Bugs with Runtime Monitoring*. 2010
	Philipp Bichsel. *Inference of API Usage Documentation*. 2010. See paper at ICSM'10
	Sebastian Grössl. *Finding Implicit Programming Rules and their Violations in Java Programs*. 2009
Bachelor theses	Patrick Mell. *Detecting Parallelization Opportunities in JavaScript Programs*. 2016
	Thomas Glaser. *A Dynamic Analysis to Help Refactoring Complex Conditions for Improved Performance*. 2015. See paper at ISSTA'17
	Pascal Zimmermann. *Name-based Type Inference*. 2012
	Christine Zeller. *Software Anomaly Detection in a Real-world Setting*. Collaboration with Google, Zurich. 2012

Severin Heiniger. *API Usage Anomaly Detection Based on Points-to Analysis*. 2011. See paper at ISSTA'12

Claudio Corrodi. *Detecting Library Usage Anomalies*. 2011

Undergraduate supervision — Satia Herfert. 2016–2017. See paper at ASE'17

Abhijit Singh. 2015–2016.

Hosam Nima. 2015.

Parker Schuh. 2013–2014. See papers at OOPSLA'14 and ICSE'15

Reviewing and Service

Organizer — Chair of Artifact Evaluation at International Symposium on Software Testing and Analysis (ISSTA), 2019

Chair of Artifact Evaluation at European Conference on Object-Oriented Programming (ECOOP), 2017

Dagstuhl seminar on Automated Program Repair, 2017

Workshop on Dynamic Analysis (WODA), 2016

Workshop on Tools for JavaScript Analysis (JSTools) at ECOOP, 2016

Workshop on Tools for JavaScript Analysis (JSTools) at ECOOP, 2015

Committee member — International Conference on Software Engineering (ICSE), program board, 2019

Conference on Automated Software Engineering (ASE), 2018

European Conference on Object-Oriented Programming (ECOOP), 2018

International Symposium on Engineering Secure Software and Systems (ESSoS), 2018

Workshop on API Usage and Evolution (WAPI) at ICSE, 2018

Workshop on Programming Technology for the Future Web (ProWeb), 2018

Software Engineering (SE), 2018

IEEE Transactions on Software Engineering, Review board, 2017/2018

Conference on Programming Language Design and Implementation (PLDI), 2017

International Conference on Software Engineering (ICSE), 2017

International Symposium on Software Testing and Analysis (ISSTA), 2017

Workshops at SPLASH, Program Committee, 2017

ACM Student Research Competition at ESEC/FSE, 2017

ProWeb workshop on programming methodology for the future web, Program Committee, 2017

Conference on Programming Language Design and Implementation (PLDI), External review committee, 2016

European Conference on Object-Oriented Programming (ECOOP), 2016

International Symposium on Software Testing and Analysis (ISSTA), 2016

International Symposium on the Foundations of Software Engineering (FSE), Demonstrations Track, 2016

Student Contest on Software Engineering (SCORE) at ICSE, 2016

Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA), 2015

ACM SIGPLAN Student Research Competition at SPLASH, 2015

Conference on Automated Software Engineering (ASE), Tool Demonstration Track, 2015

Workshop on Software Engineering for Parallel Systems at OOPSLA, 2015

Software Engineering (SE), 2015

Workshop on Software Engineering for Parallel Systems at OOPSLA, 2014

ACM Student Research Competition at International Conference on Software Engineering (ICSE), 2014

International Conference on Software Engineering (ICSE), poster track, 2014

Reviewer — IEEE Transactions on Software Engineering, 2014, 2015, 2016, 2017

Journal on Empirical Software Engineering, 2016

ACM Transactions on Software Engineering and Methodology (TOSEM), 2015

IEEE Transactions on Parallel and Distributed Systems, 2014

Science of Computer Programming, 2013, 2014

Information and Software Technology, 2013

IEEE Transactions on Information Forensics and Security, 2012

Journal of Computer Science and Technology (JCST), 2011

External reviewer
Symposium on the Foundations of Software Engineering (FSE), 2016

Symposium on Principles of Programming Languages (POPL), 2016

European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE), 2015

Conference on Computer Aided Verification (CAV), 2014

Conference on Programming Language Design and Implementation (PLDI), 2014

Principles and Practice of Parallel Programming (PPoPP), 2014

European Conference on Object-Oriented Programming (ECOOP), 2013

USENIX Workshop on Hot Topics in Parallelism (HotPar), 2012

Conference on Programming Language Design and Implementation (PLDI), 2011

Workshop on Relationships and Associations in Object-Oriented Languages (RAOOL) at ECOOP 2009

References

Available on request

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