



Philipp Leitner

Curriculum Vitæ (December 8, 2018)

<i>Address</i>	Hörselgängen 11, 417 56 Göteborg, Sweden
<i>Phone</i>	+41 44 63 545 81
<i>Mail</i>	philipp.leitner@chalmers.se
<i>WWW</i>	http://philippleitner.net

SUMMARY

I am currently Assistant Professor of Software Engineering at Chalmers and University of Gothenburg, Sweden, where I lead the Internet Computing and Emerging Technologies (ICET) lab. I hold a PhD degree from Vienna University of Technology (in business informatics, focussing on cost-aware service composition). My current research interests are software performance engineering, especially in a cloud computing context. My research is funded by Chalmers through the ICT Area of Advance, the Wallenberg Autonomous Systems Program (WASP), the Swiss National Science Foundation, and the European Union's 7th Framework Programme. I have published around 100 peer-reviewed publications, leading to an h-index of 27 as tracked by Google Scholar.

EDUCATION

PhD Business Informatics Oct. 2007 - Oct. 2011

Vienna University of Technology

On Preventing Violations of Service Level Agreements in Composed Services using Self-Adaptation
Thesis advisor: Prof. Schahram Dustdar

MSc Business Informatics Nov. 2005 - Sep. 2007

Vienna University of Technology

BSc Business Informatics Oct. 2002 - Oct. 2005

Vienna University of Technology

APPOINTMENTS AND WORK HISTORY

Assistant Professor Since Aug. 17

Chalmers | University of Gothenburg

- Tenure-Track Assistant Professor
- Leader of the ICET-lab
- Part of the ICT Area of Advance

Senior Research Associate

Jan. 2014 - Jul. 2017

University of Zurich

- Research team leader “cloud-based software engineering”
- PI for SNF project MINCA and Co-PI for Hasler Dev-Cloud and FP7 CloudWave
- Lecturer of various undergrad and graduate courses

Postdoctoral Researcher

Nov. 2011 - Dec. 2013

Vienna University of Technology

- Conducted research on cloud computing and middleware
- Taught courses *Advanced Internet Computing* and *Distributed Systems Technologies* on graduate level
- Supervised a large number of master students in their thesis work

Research and Teaching Assistant

Oct. 2007 - Oct. 2011

Vienna University of Technology

- Conducted research on service-based systems engineering
- Taught various courses as TA

Research Software Engineer

Jul. 2005 - Sep. 2007

Siemens PSE, Vienna

- Worked on industrial research project in the area of telecommunications and network management

Independent Software Engineer

2003 - 2006

*Various smaller Web projects***Teaching Assistant**

2003 - 2007

Vienna University of Technology

RESEARCH PROJECT EXPERIENCE

ACOSTT (2017 - Ongoing)	<i>Funding:</i> WASP (Sweden)	<i>Role:</i> Doctoral Advisor
MINCA (2016 - Ongoing)	<i>Funding:</i> SNF (Swiss)	<i>Role:</i> Applicant
DevCloud (2016)	<i>Funding:</i> Hasler Foundation (Swiss)	<i>Role:</i> Co-Applicant
CloudWave (2013 - 2016)	<i>Funding:</i> FP7 (Europe)	<i>Role:</i> Co-PI for UZH
ACROSS (2013 - 2017)	<i>Funding:</i> COST Action (Europe)	<i>Role:</i> WG Leader
Audit4SOAs (2011 - 2014)	<i>Funding:</i> FWF (Austria)	<i>Role:</i> Researcher
Indenica (2010 - 2013)	<i>Funding:</i> FP7 (Europe)	<i>Role:</i> Researcher
S-Cube (2008 - 2012)	<i>Funding:</i> FP7 (Europe)	<i>Role:</i> Deputy WP Leader
Celtic Madeira (2006 - 2007)	<i>Funding:</i> EUREKA (Europe)	<i>Role:</i> Research Engineer

RESEARCH VISITS

Institute of of High-Performance Computing, Singapore	Feb./Mar. 2013
University of Stuttgart, Germany	Apr. 2010

INVITED TALKS AND SEMINARS

- *Predictability of Performance in Public Clouds - Some Empirical Data and Lessons Learned for Software Performance Testing*, Seminar at IBM Research, Ireland, November 2017
- *Predictability of Performance in Public Clouds - Some Empirical Data and Lessons Learned for Software Performance Testing*, Invited Talk at the Sixth International Workshop on Load Testing and Benchmarking of Software Systems (LTB 2017), co-located with ICPE'17, April 2017
- *Your User is the Canary - Practices of and Obstacles to Conducting Experiments in Production*, CHOOSE Forum, University of Zurich, September 2016
- *How Predictable is the Performance of IaaS Instances? Some Insights from Benchmarking EC2, GCE, Azure, and Softlayer*, Open Cloud Day, ZHAW Winterthur, June 2016
- *Software Development for the Cloud – Challenges and Opportunities*, Faculty of Informatics, University of Lugano, February 2016
- *Software Development for the Cloud – Challenges and Opportunities*, VU University Amsterdam, November 2015
- *Trends, Opportunities and Challenges of Software Development for the Cloud*, Indian Institute of Technology Ropar, November 2015

- *Trends, Opportunities and Challenges of Software Development for the Cloud*, Indian Institute of Technology New Delhi, November 2015
- *Software Development for the Cloud – Challenges and Opportunities*, Chalmers, Gothenburg, June 2015
- *Engineering Java Applications for the Infrastructure-as-a-Service Cloud*, software evolution & architecture lab, University of Zurich, Zurich, October 2013
- *Building Applications for the Infrastructure-as-a-Service Cloud with CloudScale*, IMDEA Software Institute, Madrid, April 2013
- *Building Elastic Java Applications based on CloudScale and the Infrastructure-as-a-Service Paradigm*, National University of Singapore, School of Computing, March 2013
- *Building Elastic Java Applications based on CloudScale and the Infrastructure-as-a-Service Paradigm*, University of Illinois Advanced Digital Sciences Center, Singapore, February 2013

DEPARTMENT SERVICE

- Postdoc Representative at the Department of Informatics, University of Zurich (2015 - 2016)
- Member of the Habilitation Committee of Ivona Brandic (TU Vienna, 2013)
- Member of the Habilitation Committee of Karl Michael Göschka (TU Vienna, 2012)

PROFESSIONAL SERVICE

Organized Events

- Co-Organizer of the 1st *Vienna Software Seminar (VSS)* on the Relation of Software Architecture and DevOps/Continuous Delivery. Organizers: Uwe Zdun, Philipp Leitner, and Florian Rosenberg.
- Member of the Steering Committee of the International Workshop on Quality-Aware DevOps (QUDOS). From 2018.
- Dagstuhl GI Seminar on *Software Performance Engineering in the DevOps World* (September 26th – September 30th 2016, Schloss Dagstuhl, Germany). Co-organized with Andre van Hoorn, Pooyan Jamshidi, and Ingo Weber.
- Half-day *CloudWave Training Event* (September 5th 2016, TU Vienna, Austria). Half-day session at ESOC'16. Co-organized with Andreas Metzger and Eliot Salant.

Editorial Memberships

- Publicity Chair of Elsevier's Journal on Systems and Software (JSS). Responsible for coordinating and implementing the publicity efforts of the journal.
- Special Issue on Converging Fog and Cloud Computing, in IEEE Cloud Computing. Co-edited with Erik Elmroth, Stefan Schulte, and Srikumar Venugopal.

- Academic Editor of PeerJ Computer Science
- Special Issue on Software Tools and Technologies for Monitoring and Prediction of Cloud Services, in Software: Practice and Experience (published by Wiley-Blackwell). Co-edited with Rajiv Ranjan, Rajkumar Buyya, Armin Haller, and Stefan Tai

Chairmanships

- Publication Chair of 10th ACM/SPEC International Conference on Performance Engineering (ICPE)
- PC Co-Chair of the 3rd International Workshop on Quality-Aware DevOps (QUDOS), co-located with the 8th ACM/SPEC International Conference on Performance Engineering (ICPE 2017)
- Co-Chair of a Special Session on Services Computing and Internet Technologies (SerCo 2016) at the International Conference on High Performance Computing & Simulation (HPCS 2016)
- Tutorial Chair of the 16th International Conference on Web Engineering (ICWE2016)
- Workshop Chair of the European Conference on Service-Oriented and Cloud Computing (ESOCC) 2015.
- General Chair of the 1st International Workshop on Monitoring and Prediction of Cloud Services (MoPoC'12), co-located with ICSOC'12.

Reviews for Funding Agencies

- Deutscher Akademischer Austauschdienst (DAAD)
- Luxembourg National Research Fund (FNR)

Program Committee Memberships

- IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2019)
- IEEE International Conference on Software Maintenance and Evolution (ICSME 2018)
- International Conference on Mining Software Repositories (MSR 2018)
- ACM International Conference on Distributed Event-Based Systems (DEBS 2018)
- ACM/SPEC International Conference on Performance Engineering (ICPE 2018)
- IEEE International Conference on Cloud Computing (CLOUD, 2015 – 2018)
- International Conference on the Quality of Information and Communications Technology (QUATIC, 2018)
- International Conference on Edge Computing (EDGE 2017)
- International Symposium on Fog and Edge Computing (ISFEC 2017)
- Euromicro Conference on Software Engineering and Advanced Applications (SEAA, 2018)
- International Conference on Service-Oriented Computing (ICSOC, 2015 – 2017)

- European Conference on Service-Oriented and Cloud Computing (ESOCC, 2015, 2017)
- International Conference on Web Engineering (ICWE, 2015, 2019)
- IEEE/ACM International Utility and Cloud Computing Conference (UCC, 2014 – 2017)
- International Conference on Service Oriented Computing and Applications (SOCA, 2014 – ongoing)
- Cloud Challenge, held in conjunction with UCC (2014)
- International Workshop on RESTful Designs (WS-REST, co-located with WWW, 2018)
- International Workshop on Software Engineering Aspects of Continuous Development and New Paradigms of Software Production and Deployment (DEVOPS, 2018)
- International Workshop on Autonomous Control for Performance and Reliability Trade-offs in Internet of Services (ACPROSS, 2017)
- International Workshop on Inter-Organizational Processes (IOPs, 2016)
- International Workshop on Big Data Software Engineering (BIGDSE, 2015 – ongoing)
- EAI International Conference on Cloud, Networking for IoT Systems (CN4IoT, 2015)
- International Conference on Internet and Web Applications and Services (ICIW, 2014 – 2015)
- International Conference on the Future Internet of Things and Cloud (FiCloud, 2014)
- International Conference on Service Oriented Computing (ICSOC) Demonstration Track (2014 – ongoing)
- International Workshop on Federative and Interoperable Cloud Infrastructures (FedICI, 2014)
- International Workshop on Engineering Cloud Applications & Services (EnCASE, 2014)
- Central-European Workshop on Services and their Composition (ZEUS, 2012 – ongoing)
- International Workshop on Evolutionary Business Processes EVL-BP), co-located with EDOC (2011 – 2013)
- International Workshop on Principles of Engineering Service-Oriented Systems (PESOS), co-located with ICSE (2013)
- Track on Provisioning and Management of Service Oriented Architecture and Cloud Computing (PROMASC), a Track of the WETICE (2011 – 2012)
- International Workshop on Performance Assessment and Auditing in Service Computing (PAASC), co-located with ICSOC (2011 – 2012)
- Workshop on Emerging Web Services Technology (WEWST), co-located with ECOWS (2009 – 2011)
- International Workshop on Dynamic and Declarative Business Processes (DDBP), co-located with EDOC (2010)

Reviews for Journals

(partial list)

- IEEE Transactions on Software Engineering (TSE)

- Springer Empirical Software Engineering (ESEM)
- ACM Transactions on Internet Technology (TOIT)
- IEEE Transactions on Cloud Computing (TCC)
- Wiley Concurrency and Computation: Practice and Experience
- Oxford Press: The Computer Journal
- International Journal of Communication Networks and Distributed Systems (IJCNDs)
- Elsevier Information Processing Letters (IPL)
- IEEE Internet Computing (IC)
- IEEE Software
- Elsevier Journal of Parallel and Distributed Computing (JPDC)
- ACM Transactions on the Web (TWEB)
- Elsevier Journal of Systems and Software (JSS)
- Springer Computing (Archives for Scientific Computing)
- Journal of Computer Science and Technology (JCST)
- International Journal of Cooperative Information Systems (IJCIS)
- IEEE Transactions on Services Computing (TSC)
- Transactions on Pattern Languages of Programming (TPLoP)

TEACHING ACTIVITIES

Current PhD Students

- **Linda Erlenhov** (Chalmers, testing of non-functional properties)
- **Joel Scheuner** (Chalmers, cloud benchmarking)
- **Christoph Laaber** (UZH, cost-aware cloud engineering, co-supervised with Harald C. Gall)
- **Gerald Schermann** (UZH, continuous delivery, co-supervised with Harald C. Gall)

Graduated PhD Students

- **Jürgen Cito** (UZH, cloud performance engineering, co-supervised with Harald C. Gall, now Postdoc at MIT)

Teaching at Chalmers | GU

- Data Management (DIT032) (spring 2018, \approx 80 students)

Previous Teaching at University of Zurich

- Informatik 1 (fall 2014 – 2016, \approx 250 students)
- Advanced Software Engineering (spring 2014 – 2017, 10 – 20 students)
- Seminar Advanced Software Engineering (fall 2015 – 2016, 10 – 20 students)
- Master Basismodul (ongoing)
- Informatik-Vertiefung (ongoing)

Previous Teaching at TU Vienna

- VO 2.0 Verteilte Systeme (fall 2013, \approx 400 students)
- VU 2.0 Advanced Internet Computing (fall 2008 - 2013, 140 students)
- VU 4.0 Distributed Systems Technologies (spring 2009 - 2013, 140 students)
- PR 4.0 Internet Computing Lab Work (spring 2009 - 2013)
- UE 2.0 Verteilte Systeme (fall 2009 - fall 2010, \approx 400 students)
- VU 2.0 Grid Computing (spring 2008 - spring 2009, 10 students)

Thesis Supervision at Chalmers | University of Gothenburg

- Viktor Holmqvist and Jonathan Nilsfors: Cachematic - Automatic Invalidation in Application-Level Caching Systems (master's thesis, 2018)

Thesis Supervision at University of Zurich

All co-supervised with Prof. Harald C. Gall.

- Michael Susplugas: Continuous Integration and Deployment – Case Study in an Energy Trading Company (master's thesis, 2016)
- Christian Davatz: Application-aware Benchmarking of IaaS Cloud Services (master's thesis, 2016)
- Björn Hasselmann: Mining Performance-Relevant Code Changes from Source Code Repositories (bachelor thesis, 2016)
- Emanuel Stöckli: Predicting the Costs of Code Changes in Microservice Architectures based on Runtime Feedback (master's thesis, 2015)
- Ilia Rhyzhov: Performance Analysis of Virtual Machines from Two Major IaaS Providers – Amazon Web Services (EC2) and Google Compute Engine (GCE) (master's thesis, 2015)
- Christian Bosshard: Feedback Driven Development – Bringing Runtime Metrics to the Developer (master's thesis, 2015)
- Joel Scheuner: Cloud WorkBench - A Web-Based Framework for Benchmarking Public Cloud Services (bachelor thesis, 2014)

Master's Thesis Supervision at TU Vienna

All co-supervised with Prof. Schahram Dustdar.

- Fritz Schrogl: Transparently Migrating Java Objects at Runtime in an Infrastructure-as-a-Service Cloud (2014)
- Jürgen Cito: Statistical Methods in Web Performance (2014)
- Constantin-Claudiu Gavrillete: Exploiting User Behavior and Markup Structures to Improve Search Result Rankings (2013)
- Rene Nowak: Towards Providing Unified Access To Cloud Data Storage Services (2013)
- Denitsa Djamiykova: Monitoring the Correspondence of Physical and Virtual Network Resources in OpenFlow Based Software Defined Networks (2013)
- Johannes Ferner: Using Time Series Analysis to Predict Service Level Agreement Violations in Service Compositions (2012)
- Petra Bierleutgeb: VRoxy – Enriching SOAs With Proxy-Based Dynamic Binding and Reporting Based on VRESCo (joint work with mercatis information systems GmbH, 2012)
- Matthias Irlacher: Using Domain-specific Languages for Event-based QoS monitoring in Service-oriented Environments. (co-supervised with Ernst Oberortner, 2011)
- Mathias Hess: Reducing SLA Violations of Composite Services Deployed to the Cloud (2011)
- Stefan Prennschütz-Schützenau: SOA Security Policy Validation and Authoring (work carried out at IBM T.J. Watson Research Center, New York, 2011)
- Anton Korosec: Deploying a Web Service Runtime Environment into the Cloud (2010)
- Klaus Zettler: Planung, Konzeption und Implementierung eines Virtual Campus im Rahmen von S-Cube (2010)
- Waldemar Hummer: Towards a Domain-Specific Language for Defining Intra-Service Protocols of Stateful Web Services (2009)

- G. Schermann, J. Cito, **P. Leitner**, U. Zdun, and H. Gall: *We're Doing It Live: A Multi-Method Empirical Study on Continuous Experimentation*, Information and Software Technology, 2018. To appear.
- G. Schermann, J. Cito, and **P. Leitner**: *Continuous Experimentation - Challenges, Implementation Techniques, and Current Research*, IEEE Software, 2018. To appear.
- O. Skarlat, M. Nardelli, S. Schulte, M. Borkowski, and **P. Leitner**: *Resource Provisioning for IoT Services in the Fog*, Service-Oriented Computing and Applications, Springer, 2017. To appear.
- **P. Leitner** and J. Cito: *Patterns in the Chaos – a Study of Performance Variation and Predictability in Public IaaS Clouds*, ACM Transactions on Internet Technology (TOIT), vol. 16, iss. 3, 2016.
- R. Zabolotnyi, **P. Leitner**, W. Hummer, and S. Dustdar: *JCloudScale: Closing the Gap Between IaaS and PaaS*, ACM Transactions on Internet Technology (TOIT), vol. 15, iss. 3, p. 10:1–10:20, 2015.
- J. Cito, D. Gotowka, **P. Leitner**, R. Pelette, D. Suljoti, and S. Dustdar: *Identifying Web Performance Degradations through Synthetic and Real-User Monitoring*, Journal of Web Engineering, 2015.
- A. Metzger, **P. Leitner**, D. Ivanovic, E. Schmieders, R. Franklin, M. Carro, S. Dustdar, and K. Pohl: *Comparing and Combining Predictive Business Process Monitoring Techniques*, IEEE Transactions on Systems, Man, and Cybernetics: Systems, vol. 45, no. 2, pp. 276 - 290. 2014.
- C. Inzinger, W. Hummer, B. Satzger, **P. Leitner**, and S. Dustdar: *Generic Event-Based Monitoring and Adaptation Methodology for Heterogeneous Distributed Systems*, Software: Practice and Experience, 2014.
- **P. Leitner**, W. Hummer and S. Dustdar: *Data-Driven and Automated Prediction of Service Level Agreement Violations in Service Compositions*, Distributed and Parallel Databases (Springer), vol. 31, no. 3, pp. 447 - 470. 2013
- W. Hummer, O. Raz, O. Shehory, **P. Leitner**, and S. Dustdar: *Testing of Data-Centric and Event-Based Dynamic Service Compositions*, Software Testing, Verification and Reliability, vol. 23, iss. 6, pp. 465-497, 2013.
- **P. Leitner**, W. Hummer and S. Dustdar: *Cost-Based Optimization of Service Compositions*, IEEE Transactions on Services Computing (TSC). 2011, doi:10.1109/TSC.2011.53
- W. Hummer, **P. Leitner** and S. Dustdar: *SEPL - A Domain-Specific Language and Execution Environment for Protocols of Stateful Web Services*, Distributed and Parallel Databases (DPD), vol. 29, nr. 4, pp. 277-307. 2011, doi:10.1007/s10619-011-7079-6
- B. Wetzstein, **P. Leitner**, F. Rosenberg, S. Dustdar and F. Leymann: *Identifying Influential Factors of Business Process Performance Using Dependency Analysis*, Enterprise

Information Systems (EIS), vol. 5, nr. 1. 2011, doi:10.1080/17517575.2010.493956

- A. Michlmayr, F. Rosenberg, **P. Leitner** and S. Dustdar: *End-to-End Support for QoS-Aware Service Selection, Binding and Mediation in VRESCo*, IEEE Transactions on Services Computing (TSC), vol. 3, nr. 3, pp. 193-205. 2010, doi:10.1109/TSC.2010.20
- A. Michlmayr, F. Rosenberg, **P. Leitner** and S. Dustdar: *Selective Service Provenance in the VRESCo Runtime*, International Journal on Web Services Research (JWSR), vol. 7, no. 2, pp. 65-86, 2010, doi: 10.4018/jwsr.2010040104
- **P. Leitner**, F. Rosenberg, S. Dustdar, Daio: *Efficient Dynamic Web Service Invocation*, IEEE Internet Computing, vol. 13, no. 3, pp. 72-80, May/June 2009, doi:10.1109/MIC.2009.57

ACADEMIC CONFERENCE PAPERS [\[scholar\]](#)

- V. Holmqvist, J. Nilsfors, and **P. Leitner**: *Cachematic – Automatic Invalidation in Application-Level Caching Systems*, in Proceedings of the 2019 ACM/SPEC International Conference on Performance Engineering (ICPE) – Industry Track. 2019.
- G. Schermann and **P. Leitner**: *Search-Based Scheduling of Experiments in Continuous Deployment*, in Proceedings of the 34rd IEEE International Conference on Software Maintenance and Evolution (ICSME). 2018.
- C. Laaber and **P. Leitner**: *An Evaluation of Open-Source Software Microbenchmark Suites for Continuous Performance Assessment*, in Proceedings of the 15th International Conference on Mining Software Repositories (MSR), 2018.
- C. Vassallo, G. Schermann, F. Zampetti, D. Romano, **P. Leitner**, A. Zaidman, M. Di Penta, and S. Panichella: *A Tale of CI Build Failures: an Open Source and a Financial Organization Perspective*, in Proceedings of the 33rd IEEE International Conference on Software Maintenance and Evolution (ICSME). 2017
- G. Mazlamo, J. Cito, and **P. Leitner**: *Extraction of Microservices from Monolithic Software Architectures*, in Proceedings of the 24th IEEE International Conference on Web Services (ICWS) - Applications Track. 2017
- J. Cito, G. Schermann, E. Wittern, **P. Leitner**, S. Zumberi, and H. C. Gall: *An Empirical Analysis of the Docker Container Ecosystem on GitHub*, in Proceedings of the 14th International Conference on Mining Software Repositories (MSR), 2017.
- T. Rausch, W. Hummer, **P. Leitner**, and S. Schulte: *An Empirical Analysis of Build Failures in the Continuous Integration Workflows of Java-Based Open-Source Software*, in Proceedings of the 14th International Conference on Mining Software Repositories (MSR), 2017.
- C. Davatz, C. Inzinger, J. Scheuner, and **P. Leitner** : *An Approach and Case Study of Cloud Instance Type Selection for Multi-Tier Web Applications*, in Proceedings of the 17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid), 2017.

- J. Cito, F. Oliveira, **P. Leitner**, P. Nagpurkar, and H. C. Gall: *Context-Based Analytics – Establishing Explicit Links between Runtime Traces and Source Code*, In Proceedings of the 38th International Conference on Software Engineering (ICSE’17) – Software Engineering in Practice (SEIP) Track, 2017.
 - **P. Leitner** and CP. Bezemer: *An Exploratory Study of the State of Practice of Performance Testing in Java-Based Open Source Projects*, in Proceedings of the 7th ACM/SPEC International Conference on Performance Engineering (ICPE), 2017.
- G. Schermann, D. Schöni, **P. Leitner**, and H. C. Gall: *Bifrost – Supporting Continuous Deployment with Automated Enactment of Multi-Phase Live Testing Strategies*, in Proceedings of the 2016 ACM/IFIP/USENIX Middleware Conference. **Best Student Paper Award**.
- **P. Leitner**, J. Cito, and E. Stöckli: *Modelling and Managing Deployment Costs of Microservice-Based Cloud Applications*, in Proceedings of the 9th IEEE/ACM International Conference on Utility and Cloud Computing (UCC), 2016.
 - O. Skarlat, S. Schulte, M. Borkowski, and **P. Leitner**: *Resource Provisioning for IoT Services in the Fog*, in Proceedings of the 9th IEEE International Conference on Service Oriented Computing & Applications (SOCA), 2016.
 - **P. Leitner** and J. Scheuner: *Bursting With Possibilities – an Empirical Study of Credit-Based Bursting Cloud Instance Types*, in Proceedings of the 8th IEEE/ACM International Conference on Utility and Cloud Computing (UCC), 2015.
 - E. Salant, **P. Leitner**, K. Wallbom and J. Athes : *A Framework for a Cost-Efficient Cloud Ecosystem*, in eChallenges e-2015 Conference, 2015.
 - M. Brandtner, **P. Leitner**, H. C. Gall: *Intent, Tests, and Release Dependencies: Pragmatic Recipes for Source Code Integration*, in Proceedings of the 15th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM), Bremen, Germany, 2015
 - D. Bruneo, A. Dadashi, **P. Leitner**, B. Moltchanov, F. J. N. De-Santos, A. Miron, E. Salant, A. M. Sharifloo, K. Wallbom, and C. Woods: *CloudWave – Leveraging DevOps for Cloud Management and Application Development*, in Proceedings of the Fourth European Conference on Service-Oriented and Cloud Computing (ESOCC’15) – EU Projects Track, 2015.
- J. Cito, **P. Leitner**, T. Fritz, and H. C. Gall: *The Making of Cloud Applications – An Empirical Study on Software Development for the Cloud*, in Proceedings of the 10th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT International Symposium on Foundations of Software Engineering (ESEC/FSE), New York, NY, USA, 2015.
- J. Cito, **P. Leitner**, H. C. Gall, A. Dadashi, A. Keller, and A. Roth: *Runtime Metric Meets Developer – Building Better Cloud Applications Using Feedback*, in Proceedings of the 2015 ACM International Symposium on New Ideas, New Paradigms, and Reflections on Programming & Software (Onward! 2015), New York, NY, USA, 2015.

- R. Zabolotnyi, **P. Leitner**, S. Schulte, and S. Dustdar: *SPEEDL – A Declarative Event-Based Language for Cloud Scaling Definition*, in Proceedings of the Future of Software Engineering For and In Cloud, Visionary Track of IEEE Services, 2015.
- G. Schermann, M. Brandtner, S. Panichella, **P. Leitner**, and H. Gall: *Discovering Loners and Phantoms in Commit and Issue Data*, in Proceedings of the 23rd IEEE International Conference on Program Comprehension (ICPC 2015), 2015.
- M. Brandtner, S. C. Müller, **P. Leitner**, and H. Gall: *SQA-Profiles: Rule-Based Activity Profiles for Continuous Integration Environments*, in Proceedings of the 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER15), 2015.
- J. Scheuner, **P. Leitner**, J. Cito, and H. Gall: *Cloud WorkBench - Infrastructure-as-Code Based Cloud Benchmarking*, in Proceedings of the 6th IEEE International Conference on Cloud Computing Technology and Science (CloudCom14), 2014.
- J. Cito, D. Suljoti, **P. Leitner**, and S. Dustdar: *Identifying Root Causes of Web Performance Degradation using Changepoint Analysis*, in Proceedings of the 14th International Conference on Web Engineering (ICWE 2014), 2014.
- R. Zabolotnyi, **P. Leitner**, and S. Dustdar: *Profiling-Based Task Scheduling for Factory-Worker Applications in Infrastructure-as-a-Service Clouds*, in Proceedings of the 40th Euromicro Conference on Software Engineering and Advanced Applications (SEAA), 2014.
- A. H. Borhani, **P. Leitner**, B. Lee, X. Li, and T. Hung: *WPress: Benchmarking Infrastructure-as-a-Service Cloud Computing Systems for On-line Transaction Processing Applications*, in Proceedings of the 18th IEEE International Enterprise Distributed Object Computing Conference (EDOC), 2014.
- C. Inzinger, W. Hummer, I. Lytra, **P. Leitner**, H. Tran, U. Zdun and S. Dustdar: *Decisions, Models, and Monitoring - A Lifecycle Model for the Evolution of Service-Based Systems*, to appear at the 17th IEEE International Enterprise Computing Conference (EDOC'13), 2013
- C. Inzinger, B. Satzger, **P. Leitner**, W. Hummer, and S. Dustdar: *Position Paper: Model-based Adaptation of Cloud Computing Applications*, in: Proceedings of the International Conference on Model-Driven Engineering and Software Development (MODELSWARD), Special Track on Model-driven Software Adaptation (MODA), 2013
- C. Inzinger, W. Hummer, B. Satzger, **P. Leitner**, and S. Dustdar: *Identifying Incompatible Service Implementations using Pooled Decision Trees*, in: Proceedings of the 28th Symposium on Applied Computing (SAC), Track on Dependable and Adaptive Distributed Systems, 2013
- **P. Leitner**, C. Inzinger, W. Hummer, B. Satzger, and S. Dustdar: *Application-Level Performance Monitoring of Cloud Services Based on the Complex Event Processing Paradigm*, in: Proceedings of the 2012 IEEE International Conference on Service-Oriented Computing and Applications (SOCA'12), 2012
- W. Hummer, B. Satzger, **P. Leitner**, C. Inzinger and S. Dustdar: *Deriving a Unified Fault Taxonomy for Distributed Event-Based Systems*, in: Proceedings of the 6th ACM International Conference on Distributed Event-Based Systems (DEBS), 2012

- **P. Leitner**, W. Hummer, B. Satzger, C. Inzinger and S. Dustdar: *Cost-Efficient and Application SLA-Aware Client Side Request Scheduling in an Infrastructure-as-a-Service Cloud*, in: Proceedings of the IEEE International Conference on Cloud Computing (CLOUD'12), 2012
 - **P. Leitner**, B. Satzger, C. Inzinger, W. Hummer and S. Dustdar: *CloudScale – a Novel Middleware for Building Transparently Scaling Cloud Applications*, in: Proceedings of the 27th Symposium On Applied Computing (SAC), Track on Cloud Computing, 2012
 - C. Inzinger, B. Satzger, W. Hummer, **P. Leitner** and S. Dustdar: *Non-Intrusive Policy Optimization for Dependable and Adaptive Service-Oriented Systems*, in: Proceedings of the 27th Symposium On Applied Computing (SAC), Track on Dependable and Adaptive Distributed Systems, 2012
 - **P. Leitner**, W. Hummer, B. Satzger and S. Dustdar: *Stepwise and Asynchronous Runtime Optimization of Web Service Compositions*, in: Proceedings of the 12th International Conference on Web Information System Engineering (WISE'11), Short Paper Track, 2011
 - W. Hummer, B. Satzger, **P. Leitner** and S. Dustdar: *Distributed Continuous Queries Over Web Service Event Streams*, in: Proceedings of the 7th International Conference on Next Generation Web Services Practices (NWeSP'11), 2011
 - W. Hummer, **P. Leitner**, B. Satzger and S. Dustdar: *Dynamic Migration of Processing Elements for Optimized Query Execution in Event-based Systems*, in: Proceedings of the International Symposium on Distributed Objects, Middleware, and Applications (DOA 2011), 2011
 - B. Satzger, W. Hummer, **P. Leitner** and S. Dustdar: *Esc: Towards an Elastic Stream Computing Platform for the Cloud*, in: Proceedings of the 4th IEEE International Conference on Cloud Computing (CLOUD'11), Industry and Applications Track, 2011
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