



Philipp Leitner

Curriculum Vitæ (August 8, 2016)

<i>Address</i>	Binzmühlestrasse 14, 8050 Zurich, Switzerland
<i>Phone</i>	+41 44 63 545 81
<i>Mail</i>	leitner@ifi.uzh.ch
<i>WWW</i>	http://wp.ifi.uzh.ch/leitner/

SUMMARY

I am currently a senior research associate at University of Zurich, where I lead a team working on software development in a service- and cloud-computing, and DevOps contexts. We study how software developers build and deploy cloud applications, and investigate tools that allow developers to avoid performance regressions, optimize their cloud computing costs, or enable more sophisticated release strategies.

Currently, I am most know for my work on quality prediction and optimisation for service-based systems systems, and for the QoS-aware service registry VRESCO, which I worked on for my PhD at TU Vienna. My work has enjoyed considerable academic impact, leading to an h-index of 21 as tracked by Google Scholar.

EDUCATION

PhD Business Informatics	Oct. 2007 - Oct. 2011
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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
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Vienna University of Technology

BSc Business Informatics	Oct. 2002 - Oct. 2005
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Vienna University of Technology

APPOINTMENTS AND WORK HISTORY

Senior Research Associate	Since Jan. 14
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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

MINCA (2016 - Ongoing)	<i>Funding:</i> SNF (Swiss)	<i>Role:</i> Applicant
DevCloud (2016 - Ongoing)	<i>Funding:</i> Hasler Foundation (Swiss)	<i>Role:</i> Co-Applicant
CloudWave (2013 - Ongoing)	<i>Funding:</i> FP7 (Europe)	<i>Role:</i> Co-PI for UZH
ACROSS (2013 - Ongoing)	<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
University of Stuttgart, Germany

Feb./Mar. 2013
Apr. 2010

INVITED TALKS AND SEMINARS

- *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 (since 2015)
- 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

- 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

- Academic Editor of PeerJ Computer Science
- Area Editor of the EAI Endorsed Transactions on Smart Cities
- 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

- 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.

Program Committee Memberships

- International Conference on Service-Oriented Computing (ICSOC, 2015 – ongoing)
- European Conference on Service-Oriented and Cloud Computing (ESOCC, 2015)
- IEEE International Conference on Cloud Computing (CLOUD, 2015 – ongoing)
- International Conference on Web Engineering (ICWE, 2015 – ongoing)
- IEEE/ACM International Utility and Cloud Computing Conference (UCC, 2014 – ongoing)
- Cloud Challenge, held in conjunction with UCC (2014)
- International Conference on Service Oriented Computing and Applications (SOCA, 2014 – ongoing)
- 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

- 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 Students

(all co-supervised with Prof. Harald C. Gall)

- **Christoph Laaber** (PhD student, cost-aware cloud engineering)
- **Jürgen Cito** (PhD student, cloud performance engineering)
- **Gerald Schermann** (PhD student, continuous delivery)
- **Dominik Schöni** (master student, continuous delivery)
- **Joel Scheuner** (master student, cloud benchmarking)
- **Genc Mazlami** (master student, feedback-driven development)

Current Teaching at University of Zurich

- Informatik 1 (fall 2014 – 2015, \approx 200 students)
- Advanced Software Engineering (spring 2014 – 2016, 10 – 20 students)
- Seminar Advanced Software Engineering (fall 2015, 22 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 University of Zurich

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

- 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 (undergraduate 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 Gavrilete: 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)

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

- **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, Daios: *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 [\[scholar\]](#)

- **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
 - W. Hummer, O. Raz, O. Shehory, **P. Leitner** and S. Dustdar: *Test Coverage of Data-Centric Dynamic Compositions in Service-Based Systems*, in: Proceedings of the 4th International Conference on Software Testing, Verification and Validation (ICST), 2011
 - W. Hummer, **P. Leitner** and S. Dustdar: *WS-Aggregation: Distributed Aggregation of Web Services Data*, in: Proceedings of the 26th Symposium On Applied Computing (SAC), Track on Service-Oriented Architectures and Programming , 2011
- **P. Leitner**, B. Wetzstein, D. Karastoyanova, W. Hummer, S. Dustdar and F. Leymann: *Preventing SLA Violations in Service Compositions Using Aspect-Based Fragment Substitution*, in: Proceedings of the International Conference on Service-Oriented Computing (ICSOC) , 2010
- **P. Leitner**, A. Michlmayr, F. Rosenberg and S. Dustdar: *Monitoring, Prediction and Prevention of SLA Violations in Composite Services*, in: Proceedings of the IEEE International Conference on Web Services (ICWS), Industry and Applications Track, 2010
 - F. Rosenberg, M. B. Müller, **P. Leitner**, A. Michlmayr, A. Bouguettaya and S. Dustdar: *Metaheuristic Optimization of Large-Scale QoS-Aware Service Compositions*, in: Proceedings of the IEEE International Services Computing Conference (SCC), 2010
 - **P. Leitner**, A. Michlmayr, F. Rosenberg and S. Dustdar: *Selecting Web Services Based on Past User Experiences*, in: Proceedings of the 2009 Asia-Pacific Services Computing Conference (APSCC 2009), 2009
 - B. Wetzstein, **P. Leitner**, F. Rosenberg, I. Brandic, F. Leymann and S. Dustdar: *Monitoring and Analyzing Influential Factors of Business Process Performance*, in: Proceedings of the IEEE International Enterprise Computing Conference (EDOC), 2009
 - F. Rosenberg, P. Celikovic, A. Michlmayr, **P. Leitner** and S. Dustdar: *An End-to-End Approach for QoS-Aware Service Composition*, in: Proceedings of the IEEE International Enterprise Computing Conference (EDOC), 2009

- **P. Leitner**, A. Michlmayr, F. Rosenberg, S. Dustdar: *End-to-End Versioning Support for Web Services*, in: Proceedings of the IEEE Services Computing Conference (SCC), 2008
- A. Michlmayr, F. Rosenberg, **P. Leitner** and S. Dustdar: *QoS-Aware Service Provenance in Web Service Runtimes*, in: Proceedings of the IEEE International Conference on Web Services (ICWS), 2009
- A. Michlmayr, F. Rosenberg, **P. Leitner** and S. Dustdar: *Advanced Event Processing and Notifications in Service Runtime Environments*, in: Proceedings of the IEEE International Conference on Distributed Event-Based Systems (DEBS), 2008
- R. Marin, J. Vivero, **P. Leitner**, A. Neppach and M. Zach: *Securing the Madeira Network Management System*, in: Proceedings of the IEEE International Conference on Software, Telecommunications and Computer Networks (SoftCom), 2007
- M. Leitner, **P. Leitner**, M. Zach, S. Collins and C. Fahy: *Fault Management Based on Peer-to-Peer Paradigms; A Case Study Report from the CELTIC Project Madeira*, in: Proceedings of the IFIP/IEEE International Symposium on Integrated Management (IM), 2007
- R. Marin, J. Vivero, H. Nguyen, J. Serrat, **P. Leitner**, M. Zach and C. Fahy: *A Distributed Policy Based Solution in a Fault Management Scenario*, in: Proceedings of the IEEE Global Communications Conference (GLOBECOM), Short Paper Track, 2006

WORKSHOP, POSTER, AND DEMO CONTRIBUTIONS [\[scholar\]](#)

- G. Schermann, J. Cito, **P. Leitner**, and H. C. Gall: *Towards Quality Gates in Continuous Delivery and Deployment*, in Proceedings of the 24TH IEEE International Conference on Program Comprehension (ICPC) – Short Paper Track, 2016. **Best Short Paper Award**
- J. Cito, G. Mazlami, and **P. Leitner**: *TemPerf: Temporal Correlation between Performance Metrics and Source Code*, in Proceedings of the 2nd International Workshop on Quality-Aware DevOps (QUDOS 2016), 2016.
- G. Schermann, J. Cito, and **P. Leitner**: *All the Services Large and Micro: Revisiting Industrial Practice in Services Computing*, in Proceedings of the 11th International Workshop on Engineering Service Oriented Applications (WESOA'15), co-located with ICSOC 2015, 2015.
- M. Brandtner, **P. Leitner**, and H. Gall: *Profile-based View Composition in Development Dashboards*, in Proceedings of the 17th Workshop Software-Reengineering & Evolution (WSRE), 2015.
- J. Scheuner, J. Cito, **P. Leitner**, and H. Gall: *Cloud WorkBench: Benchmarking IaaS Providers based on Infrastructure-as-Code*, in Proceedings of the 24th International World Wide Web Conference (WWW'15) - Demo Track, 2015.
- D. Bruneo, T. Fritz, S. Keidar-Barner, **P. Leitner**, F. Longo, C. Marquezan, A. Metzger, K. Pohl, A. Puliafito, D. Raz, A. Roth, E. Salant, I. Segall, M. Villari, Y. Wolfsthal, and C. Woods: *CloudWave: where Adaptive Cloud Management Meets DevOps*, in Proceedings of the Fourth International Workshop on Management of Cloud Systems (MoCS 2014), 2014.

- **P. Leitner**, S. Schulte, S. Dustdar, I. Pill, M. Schulz and F. Wotawa: *The Dark Side of SOA Testing - Towards Testing Contemporary SOAs Based on Criticality Metrics*, in: Proceedings of the 5th International Workshop on Principles of Engineering Service-Oriented Systems (PESOS), co-located with ICSE 2013, 2013
- R. Zabolotnyi, **P. Leitner** and S. Dustdar: *Dynamic Program Code Distribution in Infrastructure-as-a-Service Clouds*, in: Proceedings of the 5th International Workshop on Principles of Engineering Service-Oriented Systems (PESOS), co-located with ICSE 2013, 2013
- F. Wotawa, M. Schulz, I. Pill, S. Jehan, **P. Leitner**, W. Hummer, S. Schulte, P. Hoenisch and S. Dustdar: *Fifty Shades of Grey in SOA Testing (Position Paper)*, in: Proceedings of the 9th Workshop on Advances in Model Based Testing (A-MOST), co-located with ICST 2013, 2013
- C. Inzinger, W. Hummer, B. Satzger, **P. Leitner**, and S. Dustdar: *Towards Identifying Root Causes of Faults in Service-Based Applications*, in: Proceedings of the 31st IEEE International Symposium on Reliable Distributed Systems (SRDS 2012), Poster Track, 2012
- **P. Leitner**, W. Hummer and S. Dustdar: *A Monitoring Data Set for Evaluating QoS-Aware Service-Based Systems*, in: Proceedings of the 4th International Workshop on Principles of Engineering Service-Oriented Systems (PESOS), co-located with ICSE'12, 2012
- **P. Leitner**, F. M. Nardini, G. Tolomei, F. Silvestri and S. Dustdar: *Mining Lifecycle Event Logs for Enhancing Service-based Applications*, in: Proceedings of the 1st International Workshop on Adaptive Services for the Future Internet (WAS4FI), colocated with ServiceWave'11, 2011
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