10th Symposium on Software Performance 2019

5. – 6. November 2019

Würzburg, Germany

Hosts

Sponsors

Program

Tuesday, November 5th: Symposium Day 1

8:30	**Registration + Desk Opening**
9:00	**Get-together**
10:00	**Opening and Welcome Note**
10:20 - 10:45	**[Industry Talk] Quo Vadis Network Monitoring** **David Hock and Stefan Köhler,** **infosim Gmbh**

10:45 - 13:00	Session 1: Monitoring 1 Session Chair: Holger Eichelberger

10:45 - 11:00	**[Paper] Identifying Bottlenecks in a Visualization Platform for Tracing Adaptation Decisions** **Martin Pfannemüller and Christian Becker,** **University of Mannheim**
11:10 - 11.35	**[Paper] Using OPEN.xtrace and Architecture-Level Models to Predict Workload Performance on In-Memory Database Systems** **Maximilian Barnert, Adrian Streitz, Johannes Rank, Harald Kienegger and Helmut Krcmar,** **Trier University**
11:35 - 12:00	**[Paper] Graph-Based Analysis and Visualization of Software Traces** **Richard Müller and Matteo Fischer,** **Leipzig University**

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12:00 - 13:00	Lunch Break

13:00 - 15:20	Session 2: System Analysis Session Chair: Wilhelm Hasselbring

13:00 - 13:25	**[Paper] Memory Leak Visualization using Evolving Software Cities** **Markus Weninger, Lukas Makor and Hanspeter Mössenböck,** **Johannes Kepler University Linz**
13:25 - 13:50	**[Paper] On the Difficulties of Supervised Event Prediction based on Unbalanced Real-World Data in Multi-System Monitoring** **Andreas Schörgenhumer, Mario Kahlhofer, Peter Chalupar, Hanspeter Mössenböck and Paul Grünbacher,** **Johannes Kepler University Linz**
13:50 - 14:15	**[Industry Talk] Timeseries gone wild: small- & big-data analysis with Software-EKG** **Stefan Krause and Harald Störrle,** **QAware**
14:15 - 14:40	**[Industry Talk] Do we need a resource efficiency label for software?** **Andreas Brunnert and Richard Vobl,** **ReTiT**

14:50 - 15:20	Coffee Break

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15:20 - 17:00	Session 3: Modeling 1
	Session Chair: Dominik Werle

15:20 - 15:45	**[Paper]** On Learning Parametric Dependencies from Monitoring Data **Johannes Grohmann, Simon Eismann and Samuel Kounev,** **University of Würzburg**
15:45 - 16:10	**[Paper]** Towards domain-specific extensibility of quality-aware software architecture meta-models **Sebastian Dieter Krach,** **Karlsruhe Institute of Technology**
16:10 - 16:30	**[Talk]** The Applicability of Palladio for Assessing the Quality of Cloud-based Microservice Architectures **Floriment Klinaku, Dominik Bilgery and Steffen Becker,** **University of Stuttgart**
16:30 - 16:55	**[Paper]** Towards Reverse Engineering for Component-Based Systems with Domain Knowledge of the Technologies Used **Yves Richard Schneider and Anne Koziolek,** **Karlsruhe Institute of Technology**

19:00 - 22:30	Dinner/SSP Anniversary Party

Wednesday, November 6th: Symposium Day 2

8:30	Registration + Desk Opening
9:00 - 10:30	Session 4: Monitoring 2 Session Chair: Holger Knoche

9:00 - 9:25	**[Industry Talk] inspectIT is dead – long live inspectIT Ocelot!** **Henning Schulz, Marius Oehler, Alexander Wert and Jonas Kunz,** **Novatec**
9:25 - 9.50	**[Industry Talk] Field Report: KPI-based management of commercial software development** **Stefan Luckhaus,** **PASS Consulting**

10:00 - 10:30	Coffee Break

10:30 - 12:30	Session 5: Experimentation Session Chair: Dusan Okanovic

10:30 - 10:55	**[Paper] Towards Testing the Performance Influence of Hypervisor Hypercall Interface Behavior** **Lukas Beierlieb, Lukas Iffländer, Aleksandar Milenkoski and Samuel Kounev,** **University of Würzburg**
10:55 - 11:20	**[Paper] Towards Understanding the Performance of Distributed Database Management Systems in Volatile Environments** **Jörg Domaschka and Daniel Seybold,** **Ulm University**

Universität Stuttgart

11:20 - 11:40	**[Talk]** "PerformoBot, please help me!" – Chatbot-supported Performance Evaluation **Samuel Beck, Lasse Merz, Christoph Zorn, Fabian Beck, Leonel Merino, Dušan Okanović and André van Hoorn,** **University of Stuttgart**
11:40 - 12:00	**[Talk]** Chaos Experimentation based on Established Risk Analysis Methods: Experiences from an Industrial Case Study **Dominik Kesim,** **University of Stuttgart**

12:00 - 12:30	Coffee Break

13:00 - 14:40	Session 6: Performance Session Chair: Johannes Kroß

13:00 - 13:20	**[Talk]** Assessing and Improving Dependability and Security of CI/CD Infrastructures **Thomas F. Düllmann,** **University of Stuttgart**
13:20 - 13:45	**[Paper]** On the Validity of Performance Antipattern at Code Level **David Georg Reichelt, Stefan Kühne and Wilhelm Hasselbring,** **Leipzig University**

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13:45 - 14:10	**[Paper]** Improving Batch Performance when Migrating to Microservices with Chunking and Coroutines **Holger Knoche,** **Uni Kiel**

14:10 - 14:40	Coffee Break

14:40 - 16:00	Session 7: Modeling 2 Session Chair: Sebastian Krach

14:40 - 15:05	**[Paper]** Data Stream Operations as First-Class Entities in Palladio **Dominik Werle, Stephan Seifermann and Anne Koziolek,** **Karlsruhe Institute of Technology**
15:05 - 15:30	**[Paper]** Modelling and Predicting Memory Behavior in Parallel Systems with Network Links - Palladio-based Experiment Report **Philipp Gruber and Markus Frank,** **University of Stuttgart**
15:30 - 15:55	**[Paper]** Mapping Data Flow Models to the Palladio Component Model **Stephan Seifermann, Dominik Werle and Mazen Ebada,** **Karlsruhe Institute of Technology**

16:00	Farewell

Venue

The symposium (November 5-6, 2019) will be held on the top floor of the brand new Infosim HQ, Landsteinerstraße 4 (picture below). It can be reached via the bus stop "Philosophisches Institut" (lines 14, 114, 214, 29), from the bus stop follow the route shown below. The main entrance of the building is facing towards Magdalene-Schoch-Straße 3 and an accessible entrance is located on Landsteinerstraße. A large number of free parking spaces can be found along Landsteinerstraße.

Social Event

The social event on Tuesday evening consists of a short tour of the wine cellars of the residence palace followed by a banquet with a winetasting. The social event starts at 19:00 at the fountain in front of the residence (see image below, NOT in the residence garden). There is no mobile reception in the wine cellar, so please make sure to be on time. The residence is a one-minute walk from the bus stop "Mainfranken Theater" (lines 12, 14, 20, 28).

More information available online:
https://www.performance-symposium.org/2019/program/