Curriculum Vitae

Personal Information

Name: Sebastian Heil, M.Sc.

Address: Straße der Nationen 62 1/B204

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Date of birth: 17.05.1988

Education

10/2015 – 02/2020 (est.) Chemnitz University of Technology, PhD

10/2010 – 09/2012 Chemnitz University of Technology, M.Sc.

Data & Web Engineering

10/2007 – 10/2010 Chemnitz University of Technology, B.Sc.

Major: Computer Science

Minor: Physics

Research Experience

10/2014 – 09/2018 **Researcher** at the Distributed Systems Group (VSR),

Technische Universität Chemnitz

eHealth Research Laboratory, education & student

supervision

11/2013 & 11/2012 **Research Stays** in Argentina at Universidad Nacional

de La Plata, LIFIA at group of Prof. Gustavo Rossi, funded by DAAD project MockupDD (54367460)

10/2012 – 09/2014 **Researcher** at the Distributed Systems Group (VSR),

Chemnitz University of Technology

OMELETTE FP7 Project, education & student

supervision

08/2011 – 02/2012 **Student researcher** at the Distributed Systems Group

(VSR), Chemnitz University of Technology Task: Development of a BPMN-based workflow management system with RESTful interface Focus: Web services, REST, BPMN, workflow

visualization, Usability

04/2011 – 08/2011 **Research internship** at the Distributed Systems

Group (VSR), Chemnitz University of Technology: Workflow management with WebComposition/

DataGridService (Project: Flowble)

Focus: Web services, Linked Data, BPMN

04/2010 – 12/2010 **Development** of a community-centered web-based

workflow management system (Project: Goal1) Focus: crowdsourcing, collaboration, workflow

management, microcontent

Publications

09/2019	Heil, S., Bakaev, M., Gaedke, M.: Assessing Completeness in Training Data for Image-Based Analysis of Web User Interfaces. In Proceedings of the Young Scientist's Third International Workshop on Trends in Information Processing, Stavropol, Russia.
06/2019	Heil, S., Siegert, V., Gaedke, M.: Crowdsourced Reverse Engineering: Experiences in Applying Crowdsourcing to Concept Assignment. In Evaluation of Novel Approaches to Software Engineering, Revised Selected Papers, Communications in Computer and Information Science.
06/2019	Noura, M., Heil, S., Gaedke, M.: Webifying Heterogenous Internet of Things Devices. In Proceedings of 19th International Conference on Web Engineering, Daejeon, Korea.
06/2019	Bakaev, M., Heil, S., Perminov, N., Gaedke, M.: Integration Platform for Metric-Based Analysis of Web User Interfaces. In Proceedings of 19th International Conference on Web Engineering, Daejeon, Korea.
05/2019	Noura, M., Gyrard, A., Heil, S., Gaedke, M.: Automatic Knowledge Extraction to build Semantic Web of Things Applications. IEEE Internet of Things Journal.
03/2019	Bakaev, M., Heil, S., Khvorostov, V., Gaedke, M.: Auto- Extraction and Integration of Metrics for Web User Interfaces. Journal of Web Engineering 17(6&7).
10/2018	Noura, M., Gyrard, A., Heil, S., Gaedke, M.: Concept Extraction from Web of Things Knowledge Bases. In Proceedings of the 17th International Conference WWW/Interne, Budapest, Hungary. Outstanding Paper Award.
06/2018	Bakaev, M., Heil, S., Khvorostov, V., Gaedke, M.: <i>HCI Vision for Automated Analysis and Mining of Web User Interfaces</i> . In Proceedings of the 18th International Conference on Web Engineering, Cáceres, Spain.
05/2018	Noura, M., Heil, S., Gaedke, M.: <i>GrOWTH: Goal-Oriented End User Development for Web of Things Devices</i> . In Proceedings of the 18th International Conference on Web Engineering, Cáceres, Spain.
05/2018	Heil, S., Siegert, V., Gaedke, M.: <i>ReWaMP: Rapid Web Migration Prototyping leveraging WebAssembly</i> . In Proceedings of the 18th International Conference on Web Engineering, Cáceres, Spain.
05/2018	Zarei, B., Heil, S., Gaedke, M.: <i>Natural-Language-Enabled End-User Tool Endowed with Ontology-based Development</i> . In Proceedings of the 18th International Conference on Web Engineering, Cáceres, Spain.

03/2018	Bakaev, M., Laricheva, T., Heil, S., Gaedke, M.: Analysis and Prediction of University Websites Perceptions by Different User Groups. In Proceedings of IEEE 14th Actual problems of electronic instrument engineering, Novosibirsk, Russia.
03/2018	Heil, S., Gaedke, M.: <i>Exploring Crowdsourced Reverse Engineering</i> . In Proceedings of the 13th International Conference on Evaluation of Novel Approaches to Software Engineering, Santa Cruz, Porgual.
09/2017	Bakaev, M., Heil, S., Khvorostov, V., Gaedke, M.: Evaluation of User-Subjective Web Interface Similarity with Kansei Engineering-Based ANN. In Proceedings of 3rd International Workshop on Usability and Accessibility focused Requirements Engineering, Lisbon, Portugal.
06/2017	Bakaev, M., Khvorostov, V., Heil, S., Gaedke, M.: Web Intelligence Linked Open Data for Website Design Reuse. In Proceedings of 17th International Conference on Web Engineering, Rome, Italy.
04/2017	Heil, S., Gaedke, M.: Web Migration - A Survey Considering the SME Perspective. In Proceedings of the 12th International Conference on Evaluation of Novel Approaches to Software Engineering, Porto, Portugal.
12/2016	Heil, S., Wild, S., Krug, M., Gaedke, M.: <i>Towards Reputation-Aware Expert Finding with Linked Open Data</i> . In Proceedings of the 12th International Conference on Semantic Systems: Posters and Demos Track, Leipzig, Germany.
11/2016	Heil, S., Bakaev, M., Gaedke, M.: Measuring and Ensuring Similarity of User Interfaces: The Impact of Web Layout. In Proceedings of the 17th International Conference on Web Information Systems Engineering, Shanghai, China.
10/2016	Bakaev, M., Gaedke, M., Heil, S.: <i>Kansei Engineering Experimental Research with University Websites</i> . In Chemnitzer Informatik-Berichte, Chemnitz, Germany.
06/2016	Bakaev, M., Gaedke, M., Khvorostov, V., Heil, S.: Extending Kansei Engineering for Requirements Consideration in Web Interaction Design. In Proceedings of the 16th International Conference on Web Engineering, Lugano, Switzerland.
04/2016	Heil, S., Gaedke, M.: <i>AWSM: Agile Web Migration for SMEs</i> . In Proceedings of the 11th International Conference on Evaluation of Novel Approaches to Software Engineering, Rome, Italy.
04/2016	Bakaev, M., Gaedke, M., Heil, S.: <i>Kansei Engineering Experimental Research with University Websites</i> . In Chenitzer Informatik-Berichte, Technische Universität Chemnitz, Department of Computer Science, 2016.

06/2015	Heil, S., Drechsel, M, Gaedke, M.: Supporting the Development of Team-Climate-Aware Collaborative Web Applications. In Proceedings of the 15th International Conference on Web Engineering, Rotterdam, Netherlands.
03/2015	Wild, S., Wiedemann, F., Heil, S., Tschudnowsky, A., Gaedke, M.: <i>ProProtect3: An Approach for Protecting User Profile Data from Disclosure, Tampering, and Improper Use in the Context of WebID.</i> In Transactions on Large-Scale Data- and Knowledge-Centered Systems XIX.
07/2014	Heil, S., Wild, S., Gaedke, M.: <i>CRAWL•E: Distributed Skill Endorsements in Expert Finding</i> . In Proceedings of the 14th International Conference on Web Engineering, Toulouse, France.
07/2014	Rivero, J.M., Heil, S., Grigera, J., Robles Luna, E., Gaedke, M.: <i>An extensible, Model-Driven and end-user centric approach for API building</i> . In Proceedings of the 14th International Conference on Web Engineering, Toulouse, France.
12/2013	Heil, S., Wild, S., Gaedke, M.: <i>Collaborative Adaptive Case Management with Linked Data</i> . In Proceedings of the 23rd International Conference on World Wide Web Companion, Seoul, Korea.
12/2013	Wild, S., Chudnovskyy, O., Heil, S., Gaedke, M.: Protecting User Profile Data in WebID-based Social Networks Through Fine-grained Filtering. In Current Trends in Web Engineering, Proceedings of ICWE 2013 International Workshops ComposableWeb, QWE, MDWE, DMSSW, EMotions, CSE, SSN, and PhD Symposium, Aalborg, Denmark.
07/2013	Rivero, J.M., Heil, S., Grigera, J., Gaedke, M.: MockAPI: <i>An Agile Approach Supporting API-first Web Application Development</i> . In Current Trends in Web Engineering, Proceedings of the 13 th International Conference on Web Engineering (ICWE 2013), Aalborg, Denmark.
07/2013	Wild, S., Heil, S., Chudnovskyy, O., Gaedke, M.: <i>Customized Views on Profiles in WebId-Based Distributed Social Networks</i> . In Current Trends in Web Engineering, Proceedings of the 13 th International Conference on Web Engineering (ICWE 2013), Aalborg, Denmark.
09/2012	Heil, S.: Supporting Semantic Interoperability in Inter- Widget-Communication-enabled User Interface Mashups. Chemnitz University of Technology. Master's thesis, 2012.
07/2012	Heil, S., Chudnovskyy, O., Gaedke, M.: Supporting Semantic Interoperability in Inter-Widget-Communication-enabled User Interface Mashups.

Chemnitzer Informatik-Berichte (pp. 71-76). Chemnitz University of Technology, Department of Computer Science, 2012.

10/2010

Heil, S.: Realisierung eines Microbloggingsystems für ein communitybasiertes Workflowmanagementsystem.

Chemnitz University of Technology.

Bachelor's thesis, 2010.

Teaching Lecture Softwareengineering Vertiefung

(Advanced Software Engineering)

Tutorial Cloud & Web Applications

Tutorial Current Trends in Web Engineering

Tutorial Software Service Engineering

Tutorial Rechnernetze (Computer Networks)

Tutorial XML

Seminar Web Engineering

Practical Course Web Engineering

Practical Course Software Engineering

Foreign languages

English (CEFR C1) Spanish (CEFR B1)

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