

Applications of Semantic Technologies

AST2010

5th International Workshop

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Semantic Web is a major international research effort with the goal to make web content available for intelligent knowledge processing. It draws on standard and novel techniques from various disciplines within Computer Science, including Knowledge Management, Artificial Intelligence, Databases, Internet Technology, Software Agents, eCommerce, etc. The methods and tools developed and integrated for this purpose – often called Semantic Technologies – are generic and have a very large application potential outside the domain of the Semantic Web. Such applications are currently being investigated in various disciplines within Computer Science, including Ambient Intelligence, Software Engineering, Cognitive Systems, Corporate Intranets, Knowledge Management, Bioinformatics, etc. We believe that Semantic Technologies provide methods and tools that will persist in these and other application areas for the foreseeable future.

This workshop brings together researchers and practitioners who work on applications of Semantic Technologies. It furthers the cross-fertilization between application areas and aids the technology transfer from foundational research into practice. The AST workshop series covers diverse application areas of Semantic Technologies, including:

- Ambient Intelligence
- Cognitive Systems
- Data Integration
- Software Engineering
- Multimedia Data Management
- Service-Oriented Computing
- Machine Learning
- eScience
- Information Extraction
- Grid Computing
- Peer-to-Peer Systems
- eCommerce
- eGovernment
- Bioinformatics

For AST2010, we selected eight submitted papers for presentation. Four of them address topics in the area of the INFORMATIK 2010 guiding theme “Service Science” , namely Web service composition, Web service discovery, matching of business and electronic services as well as business-oriented CAx integration. The other four papers cover various aspects of Semantic Web applications and technologies, namely using semantic Wiki and semantic metadata for IT Service Management and e-Learning, respectively, as well as ontology engineering and ontology versioning as important base technologies. The workshop program will be complemented by two speakers from industry: Christian Seitz (Siemens AG, Munich) who elaborates on semantic technologies in industry, energy and healthcare, and Jens Lemcke (SAP AG, Karlsruhe) who discusses the SAP view on Semantic Business Process Management.

This year’s program committee included *Sören Auer (University of Leipzig, Germany)*, *Franz Baader (TU Dresden, Germany)*, *Bernhard Bauer (University of Augsburg, Germany)*, *Christoph Beierle (University of Hagen, Germany)*, *François Bry (University of Munich, Germany)*, *Johannes Busse (ontoprise GmbH, Germany)*, *Andreas Friesen (SAP AG, Germany)*, *Thomas Fuhr (Georg Simon Ohm University of Applied Sciences Nuremberg, Germany)*, *Jens Hartmann (EnBW AG, Germany)*, *Mark Hefke (CAS Software AG, Germany)*, *Wolfgang Hesse (University of Marburg, Germany)*, *Gabriele Kern-Isberner (University of Dortmund, Germany)*, *Harald Kosch (University of Passau, Germany)*, *Daniel Krause (L3S Hannover, Germany)*, *Thorsten Liebig (University of Ulm, Germany)*, *Meenakshi Nagarajan (Wright State University Dayton Ohio, USA)*, *Daniel Oberle (SAP AG, Germany)*, *Simon Schenk (University of Koblenz, Germany)*, *Stefan Schlobach (VU Amsterdam, The Netherlands, Germany)*, *Michael Sintek (DFKI Kaiserslautern, Germany)*, *Robert Tolksdorf (FU Berlin, Germany)*, *Valentin Zacharias (FZI Karlsruhe, Germany)*, and *Jürgen Ziegler (University of Duisburg-Essen, Germany)*. We thank all program committee members for their help in reviewing the contributions.

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