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Metadata and Semantics Research

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Preface

Metadata and semantics are integral to any information system and significant to the sphere of Web data. Research focusing on metadata and semantics is crucial to advancing our understanding and knowledge of metadata; and, more profoundly, for being able to effectively discover, use, archive, and repurpose information. In response to this need, researchers are actively examining methods for generating, reusing, and interchanging metadata. Integrated with these developments is research on the application of computational methods, linked data, and data analytics. A growing body of work also targets conceptual and theoretical designs providing foundational frameworks for metadata and semantic applications. There is no doubt that metadata weaves its way nearly through every aspect of our information ecosystem, and there is great motivation for advancing the current state of metadata and semantic. To this end, it is vital that scholars and practitioners convene and share their work.

Since 2005, the Metadata and Semantics Research Conference (MTSR) has served as a significant venue for dissemination and sharing of metadata and semantic-driven research and practices. This year, 2014, marked the eighth MTSR—Metadata and Semantics Research Conference, drawing scholars and researchers investigating and advancing our knowledge on a wide range of metadata and semantic-driven topics. MTSR has grown in numbers and submission rates over the last decade, marking it as a leading, international research conference. Continuing the successful mission of previous MTSR conferences (MTSR 2005, MTSR 2007, MTSR 2009, MTSR 2010, MTSR 2011, MTSR 2012, and MTSR 2013), MTSR 2014 aimed to bring together scholars and practitioners that share a common interest in the interdisciplinary field of metadata, linked data, and ontologies.

The MTSR 2014 program and the contents of the following proceeding show a rich diversity of research and practices from metadata and semantically focused tools and technologies, linked data, cross language semantics, ontologies, metadata models, semantic systems, and metadata standards. The general session of the conference included 13 papers covering a broad spectrum of topics, proving the interdisciplinary field of metadata, and was divided into three main themes: Metadata and Linked Data: Tools and Models; (Meta)Data Quality Assessment and Curation; and Semantic Interoperability, Ontology-Based Data Access, and Representation. Metadata as a research topic is maturing, and the conference also supported the following four tracks: Metadata and Semantics for Open Repositories; Research Information Systems and Data Infrastructures;

Big Data and Digital Libraries in Health, Science, and Technology; Metadata and Semantics for Cultural Collections and Applications; Metadata and Semantics for Agriculture, Food, and Environment. Each of these tracks had a rich selection of papers, in total 19, giving broader diversity to MTSR, and enabling deeper exploration of significant topics.

All the papers underwent a thorough and rigorous peer-review process. The review and selection this year was highly competitive and only papers containing significant research results, innovative methods, or novel and best practices were accepted for publication. Only 23 of 57 submissions were accepted as full papers, representing 40.35% of the total number of submissions. Additional contributions covering noteworthy and important results in project reports were accepted, totaling 32 accepted contributions.

This year's conference included two outstanding keynote speakers. Dr. Philipp Slusallek, Professor for Computer Graphics at Saarland University and Scientific Director at the German Research Center for Artificial Intelligence (DFKI), presented an outstanding keynote "Simulated Reality: Intelligent and Efficient Use of Semantics in 3D Environments" in which he addressed his main current research activities that include 3D visualization with semantic content, semantic reasoning for SW agents in these environments, and semantic middleware in the context of ARVIDA.

The second keynote speaker was Dr. H.C. Peter Wittenburg, Senior Advisor Data Systems at Max Planck Compute and Data Center and Senior Advisor "The Language Archive" at Max Planck Institute for Psycholinguistics. The title of his presentation was "Principles for Proper Data Stewardship and Re-use – An RDA View."

This year's conference also offered two tutorials for Semantic MediaWiki. Tobias Noeske, a Wiki expert, gave an introduction into Semantic MediaWiki, and Jonas Wäckerle, a Semantic MediaWiki professional, showed in detail how to set up Semantic MediaWiki for special purposes.

It is fitting that MTSR 2014 was in Karlsruhe, the second-largest city in the state of Baden-Württemberg, in southwest Germany, near the Franco-German border. Karlsruhe is a city that can be referred to as a "knowledge factory with savoir vivre." The Karlsruhe University of Applied Sciences, the largest university of technology in the state of Baden-Württemberg, was both honored and inspired to host MTSR. The conference organizers were committed to supporting an engaging conference environment enabling thoughtful discussion and advancing approaches to addressing metadata challenges.

We conclude this preface by thanking the many people who contributed their time and energy to MTSR 2014, and made possible this year's conference. We thank, also, all the organizations that supported the conference.

We extend a sincere thank you to members of the Program Committees (track committees included), the Steering Committee and the Organizing Committees (both general and local), and the conference reviewers. A special thank you to our colleagues D. Koutsomiha and P. Gaitanou, who assisted us with the proceedings.

September 2014

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