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# Metadata and Semantics Research

7th Research Conference, MTSR 2013  
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Proceedings



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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 for 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 into nearly every aspect of our information ecosystem, and there is great motivation for advancing the current state of metadata and semantics. 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, 2013, marked the seventh MTSR 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 and MTSR 2012), MTSR 2013 aimed to bring together scholars and practitioners who share a common interest in the interdisciplinary field of metadata, linked data, and ontologies.

The MTSR 2013 program and the contents of these proceedings show a rich diversity of research and practices, drawing on problems from metadata and semantically focused tools and technologies, linked data, cross-language semantics, ontologies, metadata models, and semantic system and metadata standards. The general session of the conference included 18 papers covering a broad spectrum of topics, proving the interdisciplinary field of metadata, and was divided into three main themes: platforms for research data sets, system architecture and data management; metadata and ontology validation, evaluation, mapping and interoperability; and content management. Metadata as a research topic is maturing, and the conference also supported the following five tracks: Metadata and Semantics for Open Repositories, Research Information Systems and Data Infrastructures; Metadata and Semantics for Cultural Collections and Applications; Metadata and Semantics for Agriculture, Food and Environment; Big Data and Digital Libraries in Health, Science and Technology; and European and National Projects, and Project Networking. Each track had a rich selection

of papers, 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 29 of 89 submissions were accepted as full papers, representing 32.5% of the total number of submissions. Additional contributions covering noteworthy and important results in special tracks or project reports were accepted, totaling 42 accepted contributions.

This year's conference included two outstanding keynote speakers. Dr. Stefan Gradmann, a professor arts department of KU Leuven (Belgium) and director of university library, addressed semantic research drawing from his work with Europeana. The title of his presentation was, "Towards a Semantic Research Library: Digital Humanities Research, Europeana and the Linked Data Paradigm". Dr. Michail Salampanis, associate professor from our conference host institution, the Department of Informatics of the Alexander TEI of Thessaloniki, presented new potential, intersecting search and linked data. The title of his talk was, "Re-thinking the Search Experience: What Could Professional Search Systems Do Better?"

This year's conference, also, hosted the "Special Workshop of Project Networking," the "European and National projects" and a number of additional workshops and tutorials. Furthermore, the MUMIA (Multilingual and Multifaceted Interactive Information Access) group hosted a full day Interdisciplinary WG meeting, "Using Metadata and Semantics for Integrating Information Retrieval and Natural Language Processing technologies," including professionals from across Europe. All of these activities energized the creation of synergies amongst conference attendants, professionals and project partners and representatives.

It is fitting that MTSR 2013 was held in Thessaloniki, the second-largest city in Greece, and a true mecca for knowledge and the emergence of new ideas from antiquity to current times. The Alexander Technological Educational Institute of Thessaloniki (ATEITH) was both honored and inspired to host MTSR. The ATEITH and 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 2013, and made possible this year's conference. We also thank all the organizations that supported the conference.

We extend a sincere thank you to the members of the Program Committees (track committees included), the Steering Committee, and the Organization Committees (both general and local) as well as the conference reviewers.

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