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Metadata and Semantic Research


12th International Conference, MTSR 2018
Limassol, Cyprus, October 23–26, 2018
Revised Selected Papers

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Preface

Since 2005, the International 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, 2018, marked the 12th MTSR, drawing scholars, researchers, and practitioners who are investigating and advancing our knowledge on a wide range of metadata and semantic-driven topics. The 12th International Conference on Metadata and Semantics Research (MTSR 2018) was held at the Cyprus University of Technology in Cyprus, during October 23–26, 2018.

Metadata and semantics are integral to any information system and important to the sphere of Web data. Research and development addressing metadata and semantics is crucial to advancing how we 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 literature also targets conceptual and theoretical designs providing foundational frameworks for metadata and semantic applications. There is no doubt that metadata weaves its way through nearly every aspect of our information ecosystem, and there is great motivation for advancing the current state of understanding in the fields of metadata and semantics. To this end, it is vital that scholars and practitioners convene and share their work.

MTSR conferences have grown in number of participants and paper submission rates over the past decade, marking it as a leading, international research conference. Continuing in the successful legacy of previous MTSR conferences (MTSR 2005, MTSR 2007, MTSR 2009, MTSR 2010, MTSR 2011, MTSR 2012, MTSR 2013, MTSR 2014, MTSR 2015, MTSR 2016, and MTSR 2017), MTSR 2018 brought together scholars and practitioners who share a common interest in the interdisciplinary field of metadata, linked data, and ontologies.

The MTSR 2018 program and the proceedings show a rich diversity of research and practice 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 12 papers covering a broad spectrum of topics, proving the interdisciplinary view of metadata. Metadata as a research topic is maturing, and the conference supported the following seven tracks: Digital Libraries, Information Retrieval, Big, Linked, Social and Open Data; Metadata and Semantics for Cultural Collections and Applications; Metadata and Semantics for Open Repositories, Research Information Systems, and Data Infrastructures; Track on Digital Humanities and Digital Curation; Metadata and Semantics for Agriculture, Food, and Environment; Knowledge IT Artifacts in Professional Communities and Aggregations; and European and National Projects. Each of these tracks had a rich selection of short and full research papers, in total 23, 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 for this year was highly competitive and only papers containing significant research results, innovative methods, or novel and best practices were accepted for publication. From the general session, only eight submissions were accepted as full research papers, representing 26.6% of the total number of submissions, and four as short papers. An additional 11 contributions from tracks covering noteworthy and important results were accepted as full research papers, representing 23.4% of the total number of submissions, and 12 as short papers, bringing the total of this year's MTSR 2018 accepted contributions to 35. The acceptance rate of full research papers for both the general session and tracks was 24.6% of the total number of submissions, while the cumulative acceptance rate for all papers was 45.5%.

Cyprus University of Technology aspires to become a modern and innovative university with international recognition, which promotes excellence in education and research in cutting-edge fields, aiming at the scientific, technological, economic, social, and cultural upgrading of the country. Its mission is to provide high-quality education and high-level training and to promote lifelong learning with modern pedagogical methods, to produce and disseminate scientific knowledge through research and teaching, and through contribution toward addressing challenges in the fields of science and technology, to become a catalyst for the state and society. In particular, the mission focuses on creating added value through actions on the following three axes: Education, Research, Innovation, Transfer of Know-How, and Social Contribution. The library's mission is to serve and support the members of the academic society, enhancing the scientific research and the educational procedure. The library actively participates in the university's mission of providing high-level education and research in important sectors. This fact is achieved with access to information and to registered knowledge, with the carrying out of seminars as well as with ensuring and organizing noteworthy source of information for the development of research and other skills from its user-members.

This year the MTSR conference was pleased to host a remarkable keynote presentation by Dr. Christos Papatheodorou, Professor in the Department of Archives, Library Science and Museology at the Ionian University in Greece. In his presentation "Library Data Models Under the Lens of interoperability and Quality," Professor Papatheodorou shared his extensive experience and insights about metadata quality approaches and their adaptation to the various models of bibliographic data and their interoperability.

We conclude this preface by thanking the many people who contributed their time and efforts to MTSR 2018 and made this year's conference possible. We also thank all the organizations that supported this conference. We extend a sincere gratitude to members of the Program Committees both main and special tracks, the Steering Committee and the Organizing Committees (both general and local), and the conference reviewers who invested their time generously to ensure the timely review of the submitted manuscripts. A special thanks to the program chairs, Ernesto William De Luca from Georg Eckert Institute – Leibniz Institute for International Textbook Research, Germany, and Athena Salaba from Kent State University, USA; to the workshop, tutorial, and demonstration chair, Dr. Getaneh Alemu from Southampton Solent University, UK; to Anxhela Dani and Marina Antoniou for supporting us

throughout this event and to Iro Sotiriadou and Anxhela Dani who assisted us with the preparation of the proceedings; and to Nikoleta, Vasiliki, and Stavroula for their endless support and patience. Our thanks go to Springer Nature, Elsevier, EBSCO, ACS, IEEE, Cyprus Tourism Organisation, and Reasonable Graph. Final, our thanks go to all participants of MTSR 2018 for making the event a great success.

November 2018

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