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The Semantic Web: Research and Applications

9th Extended Semantic Web Conference, ESWC 2012
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Proceedings

Volume Editors

Elena Simperl
Karlsruhe Institute of Technology, Institute AIFB
Englerstrasse 11, 76131 Karlsruhe, Germany
E-mail: elena.simperl@aifb.uni-karlsruhe.de

Philipp Cimiano
University of Bielefeld, CITEC
Morgenbreede 39, 33615 Bielefeld, Germany
E-mail: cimiano@cit-ec.uni-bielefeld.de

Axel Polleres
Siemens AG Österreich
Siemensstrasse 90, 1210 Vienna, Austria
E-mail: axel.polleres@siemens.com

Oscar Corcho
Technical University of Madrid
C/ Severo Ochoa, 13, 28660 Boadilla del Monte, Madrid, Spain
E-mail: ocorcho@fi.upm.es

Valentina Presutti
ISTC-CNR, STLab
Via Nomentana 56, 00161 Rome, Italy
E-mail: valentina.presutti@istc.cnr.it

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Preface

The Extended Semantic Web Conference (ESWC) is a major venue for discussing the latest scientific results and technology innovations around semantic technologies. Building on its past success, ESWC seeks to broaden its focus to span other relevant research areas in which Web semantics plays an important role.

The goal of the Semantic Web is to create a Web of knowledge and services in which the semantics of content is made explicit and content is linked both to other content and services, allowing novel applications to combine content from heterogeneous sites in unforeseen ways and support enhanced matching between users' needs and content. These complementarities are reflected in the outline of the technical program of ESWC 2012; in addition to the research and in-use tracks, we featured two special tracks putting particular emphasis on inter-disciplinary research topics and areas that show the potential of exciting synergies for the future, eGovernment, and digital libraries. ESWC 2012 presented the latest results in research, technologies, and applications in its field. Besides the technical program organized over multiple tracks, the conference featured several exciting, high-profile keynotes in areas directly related or adjacent to semantic technologies; a workshop and tutorial program; system descriptions and demos; a poster exhibition; a project networking session; a doctoral symposium, as well as the ESWC summer school, which was held immediately prior to the conference. As prominent co-located events we were happy to welcome the OWL Experiences and Development workshop (OWLED), as well as the AI Challenge.

The technical program of the conference received 212 submissions, which were reviewed by the Program Committee of the respective tracks; each was coordinated by Track Chairs who oversaw dedicated Program Committees. The review process included paper bidding, assessment by at least three Program Committee members, paper rebuttal, and meta-reviewing for each submission subject to acceptance in the conference program and proceedings. In all, 53 papers were selected as a result of this process, following uniform evaluation criteria devised for all (each) technical track(s).

The PhD symposium received 18 submissions, which were reviewed by the PhD Symposium Program Committee. Thirteen papers were selected for presentation at a separate track and for inclusion in the ESWC 2012 proceedings.

ESWC 2012 had the pleasure and honor to welcome seven renowned keynote speakers from academia and industry, addressing a variety of exciting topics of highest relevance for the research agenda of the semantic technologies community and its impact on ICT:

- Abraham Bernstein, Full Professor of Informatics at the University of Zurich
- Jeroen van Grondelle, cofounder of Be Informed and one of the creators of its business process platform
- Alon Halevy, head of the Structured Data Management Research Group at Google
- Alek Kolcz, software engineer at Twitter
- Monica Lam, professor in the Computer Science Department at Stanford University
- Márta Nagy-Rothengass, head of the European Commission Unit Technologies for Information Management
- Julius van de Laar, a political strategist and communications expert

We would like to take the opportunity to express our gratitude to the Chairs, Program Committee members, and additional reviewers of all refereed tracks, who ensured that this year's conference maintained the highest standards of scientific quality. Our thanks are also offered to the Organizing Committee of the conference, for their dedication and hard work in selecting and coordinating a wide array of interesting workshops, tutorials, posters, and panels that completed the program of the conference. Special thanks go to the various organizations who kindly supported our conference as sponsors, to the Sponsorship Chair who coordinated these activities, and to the team around STI International who provided an excellent service in all administrative and logistic issues related to the organization of the event. Last, but not least, we should like to say thank you to the Proceedings Chair, to the development team of the EasyChair conference management system and to our publisher, Springer, for their support in the preparation of this volume and the publication of the proceedings.

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