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Web Engineering

13th International Conference, ICWE 2013
Aalborg, Denmark, July 8-12, 2013
Proceedings



Springer

Volume Editors

Florian Daniel
University of Trento
Department of Information Engineering and Computer Science
Via Sommarive 5, 38123 Povo, Italy
E-mail: daniel@disi.unitn.it

Peter Dolog
Aalborg University
Department of Computer Science
Selma Lagerloefs Vej 300, 9220 Aalborg, Denmark
E-mail: dolog@cs.aau.dk

Qing Li
City University of Hong Kong
Department of Computer Science
83 Tat Chee Ave., Kowloon, Hong Kong, China
E-mail: itqli@cityu.edu.hk

ISSN 0302-9743 e-ISSN 1611-3349
ISBN 978-3-642-39199-6 e-ISBN 978-3-642-39200-9
DOI 10.1007/978-3-642-39200-9
Springer Heidelberg Dordrecht London New York

Library of Congress Control Number: 2013941133

CR Subject Classification (1998): H.3.5, H.3.3, H.3, H.4, D.2.1, D.2, J.1, H.5.3, H.5, H.2.8, I.2.6

LNCS Sublibrary: SL 3 – Information Systems and Application, incl. Internet/Web and HCI

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Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper

Springer is part of Springer Science+Business Media (www.springer.com)

Preface

This volume collects the research articles, tool demonstrations, posters, tutorials, and keynote speeches presented at the 13th International Conference on Web Engineering (ICWE 2013). The discipline of Web engineering is a special branch of the broader area of software engineering that specifically focuses on the World Wide Web and the Internet. The year 2013, in this respect, is an important year: it's the 30th birthday of the Internet! In fact, its official launch dates back to the year 1983, in which the Advanced Research Projects Agency Network (ARPANET) officially adopted the so-called TCP/IP stack of protocols with the Transmission Control Protocol (TCP) and Internet Protocol (IP) at its core, turning into what became the Internet. The second enabler of Web engineering, the World Wide Web, is only slightly younger: it dates back to the year 1989, in which the physicist Tim Berners-Lee at CERN, Switzerland, founded the World Wide Web with its HyperText Transfer Protocol (HTTP) able to transmit interlinked hypertext documents over a network. Since then, both the Web and the Internet have experienced tremendous adoption and evolution, with Web 3.0, the Semantic Web, IPv6, Internet of Things, and Cloud Computing being only some of the latest buzzwords produced by the unstoppable fermentation that characterizes the biggest network of our planet.

In this context, the International Conference on Web Engineering (ICWE) aims to be a premier fair and discussion forum of the latest developments, concerns, and challenges that occupy industry and academia alike. ICWE specifically aims to promote scientific and practical excellence in Web Engineering and to bring together researchers and practitioners working on all aspects regarding the engineering of Web-based software systems. The conference contributes to the advancement of the state of the art of technologies, methodologies, programming languages, algorithms, models, protocols, tools, and metrics and specifically looks for excellent research contributions, cutting-edge engineering practices, and empirical insights.

ICWE 2013 was held during July 8–12 in Aalborg, Denmark. It was the 13th edition of the conference series, following prior editions held in Berlin, Germany (2012); Paphos, Cyprus (2011); Vienna, Austria (2010); San Sebastian, Spain (2009); Yorktown Heights, NY, USA (2008); Como, Italy (2007); Palo Alto, CA, USA (2006); Sydney, Australia (2005); Munich, Germany (2004); Oviedo, Spain (2003); Santa Fe, Argentina (2002); and Caceres, Spain (2001).

This year's calls for research and industry papers jointly attracted 92 submissions from 31 countries, covering a wide spectrum of topics, such as, among others: Web mining and knowledge extraction, semantic and linked data management, crawling and Web search, model-driven Web engineering, component-based Web engineering, Rich Internet Applications (RIAs) and client-side programming, Web services, and end-user development. All submissions were

carefully reviewed by the Program Committee, consisting of renowned experts and practitioners in the field of Web engineering coming from 20 different countries. As a result, 21 submissions were accepted as full research papers and four as industry papers, resulting in a 24.7% acceptance rate for full research papers and a 27.2% overall acceptance rate of full papers. In addition to full papers, 11 submissions were accepted as short papers with an extra 12.9% rate for short papers. The scientific program was completed with seven workshops, six demonstrations and posters, as well as with four tutorials and three keynote talks by Wil van der Aalst (Technische Universiteit Eindhoven, The Netherlands), Sean Wang (Fudan University, Shanghai, China), and Jan Borchers (RWTH Aachen, Germany).

Of course, such a rich program would not have been possible without the collaboration of a large number of people. First of all, we would like to thank the 250 authors who submitted their work to ICWE 2013 for evaluation. They are the very reason for this conference to exist. Then, we would like to thank all the Program Committee members and external reviewers, who provided valuable and constructive feedback to the authors and important assessments to the Program Chairs for the selection of papers. We would like to thank the Workshop Chairs, Industry Track Chairs, Demo/Poster Chairs, Tutorial Chairs, PhD Symposium Chairs, and local organizers for their professional work. We would like to express our gratitude to the keynote speakers for their availability and insights, as well as to Geert-Jan Houben, who acted as liaison to ISWE and the ICWE Steering Committee. The final thanks go to Aalborg University and all the ICWE 2013 sponsors that contributed to making this event happen.

July 2013

Florian Daniel
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