

Preface

The International Conference on Web Engineering (ICWE) is the prime yearly international conference on different aspects of designing, building, maintaining, and using Web applications. ICWE is supported by the International Society for Web Engineering (ISWE), and brings together researchers and practitioners from various disciplines in academia and industry to tackle the emerging challenges in the engineering of Web applications and in the problems of its associated technologies, as well as the impact of those technologies on society, media, and culture.

This volume collects the full research papers (technical and vision), short research papers, application papers, demonstrations, and PhD symposium papers presented at the 17th International Conference on Web Engineering (ICWE 2017), held in Rome, Italy, during June 5–8, 2017. Previous editions of ICWE took place in Lugano, Switzerland (2016); Rotterdam, The Netherlands (2015); Toulouse, France (2014); Aalborg, Denmark (2013); Berlin, Germany (2012); Paphos, Cyprus (2011); Vienna, Austria (2010); San Sebastián, 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 Cáceres, Spain (2001).

The 17th edition of ICWE accepted contributions related to different dimensions of Web applications: Web application modeling and engineering, human computation and crowdsourcing applications, Web applications composition and mashup, social Web applications, Semantic Web applications, Web of Things applications, and big data. The different publication types mentioned above, each one with its own separate scientific chairs, allowed us to offer the community the opportunity to submit their work at different stages of maturity and target multiple, staggered paper submission deadlines.

The main research track (covering technical and vision papers) continued with the tiered Program Committee (PC) organization introduced last year, with a senior PC composed of well-known experts from the field in charge of monitoring the work and animating the discussions of the broader regular PC. This made it easier to run the virtual PC meeting of the full research papers track and the discussion about each paper.

This year's call for papers attracted 139 submissions from around the world, out of which two PCs selected 20 full papers (18 technical and two vision), for a 28% total acceptance rate, and 12 short papers, for a 37% acceptance rate. Additionally, six application papers, six demonstrations, and six contributions to the PhD symposium were accepted by their respective chairs. ICWE 2017 also accepted three tutorials on cutting-edge topics in the field of Web engineering, entitled: "Model-Based Development of JavaScript Web Applications," "Liquid Web Applications," and "Big Web Data: Warehousing and Analytics – Recent Trends and Future Challenges." Five workshops were co-located with ICWE 2017 as well.

The excellent program would not have been possible without the support of all the people who contributed to the organization of this event. We would like to thank all the different chairs for their hard work: In-young Ko, Piero Fraternali, Irene Garrigos,

Manuel Wimmer, Erik Wilde, Santiago Melia, Oscar Diaz, Boualem Benatallah, Silvia Abrahao, and Luis Olsina. Our thanks also go to Carlo Batini, Barry Smith, and Francesco Bonchi, who accepted to be our keynote speakers.

Special thanks are extended to Marco Brambilla and Flavius Frasincar for their advice and encouragement in their role of SC liaisons for the conference. We are also grateful to our local organizers Consulta Umbria for their logistical support, to Florian Daniel for leading the compilation of this volume, and to Springer for publishing it. In addition, we thank all PC members and additional reviewers for their meticulous work in selecting the best papers to be presented at ICWE 2017. Last, but not least, we would like to thank the authors who submitted their work to this conference and all the participants who contributed to the success of this event.

April 2017

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Web Engineering

17th International Conference, ICWE 2017, Rome, Italy,

June 5-8, 2017, Proceedings

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2017, XV, 619 p. 200 illus., Softcover

ISBN: 978-3-319-60130-4