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Preface

Welcome to the European Conference on Software Architecture (ECSA), which is the premier European software engineering conference. ECSA provides researchers and practitioners with a platform to present and discuss the most recent, innovative, and significant findings and experiences in the field of software architecture research and practice. The fourth edition of ECSA was built upon a history of a successful series of European workshops on software architecture held from 2004 through 2006 and a series of European software architecture conferences from 2007 through 2009. The last ECSA was merged with the 8th Working IEEE/IFIP Conference on Software Architecture (WICSA).

Apart from the traditional technical program consisting of keynote talks, a main research track, and a poster session, the scope of the ECSA 2010 was broadened to incorporate other tracks such as an industry track, doctoral symposium track, and a tool demonstration track. In addition, we also offered several workshops and tutorials on diverse topics related to software architecture.

We received more than 100 submissions in the three main categories: full research and experience papers, emerging research papers, and research challenges papers. The conference attracted papers (co-)authored by researchers, practitioners, and academics from 30 countries (Algeria, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Colombia, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Iceland, India, Ireland, Israel, Italy, The Netherlands, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Tunisia, United Kingdom, United States).

Based on the recommendations of the Program Committee, we accepted only 19 full papers out of 75 full papers submitted. The acceptance rate for the full papers was 25.33% for ECSA 2010. In the "Emerging Research" category, we accepted only 2 out of 21 papers submitted. Based on the reviews and quality of the submissions, 18 full papers were invited to be converted into "Emerging Research" papers. For the "Research Challenges" (Poster) category, 5 out of 10 submissions were accepted. Two full research papers and three "Emerging Research" papers were invited to be presented as poster papers. Hence, there were 11 papers in this category. The Tool Demonstration Chairs accepted three out of six submitted papers.

It was a great pleasure to have three eminent keynote speakers at ECSA 2010. The opening day keynote was delivered by Jan Bosch from Intuit, USA. He spoke on "Architecture in the Age of Compositionality"; The second keynote was presented by Philippe Kruchten from the University of British Columbia, Canada, on "Where Did all This Good Architectural Knowledge Go?" The third and final keynote was delivered by Jim Webber from Thoughtworks UK. Jim spoke about "REST Style Architectures in Practice for Building Very Large Scale Enterprise Systems."

We are grateful to the members of the Program Committee for helping us to seek submissions and provide valuable and timely reviews. Their efforts enabled us to put together a high-quality technical program for ECSA 2010. We are also indebted to members of the Organizing Committee of ECSA 2010 for playing an enormously important role in successfully organizing the event with several new tracks and

collocated events. We also thank the workshop organizers and tutorials presenters, who also made significant contributions to the success of an extended version of ECSA. A very special thanks is due to Vibeke Ervø for her enormous help in putting these proceedings together. The ECSA 2010 submission and review process was extensively supported by the EasyChair Conference Management System. We acknowledge the prompt and professional support from Springer, who published these proceedings in printed and electronic volumes as part of the *Lecture Notes in Computer Science* series. Finally, we are grateful to the management team of the IT University of Copenhagen, Denmark, for providing its facilities and professionally trained staff for the organization of ECSA 2010.

June 2010

Muhammad Ali Babar
Ian Gorton

Organization

ECSCA 2010 was hosted by the IT University of Copenhagen, Denmark.

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