

Preface

The service-oriented computing (SOC) paradigm has evolved over the years to be a comprehensive, interdisciplinary methodology for modern software development. Indeed, it has gone beyond just a “software componentization” technology to embody and express the software manifestation of a trend that transforms our society from an industrial, production-centric economy into a digital, service-centric economy. Since the first edition of the International Conference on Service-Oriented Computing (ICSOC) in 2003, the conference has grown to become the top international forum for academics, industry researchers, developers, and practitioners to report and share latest research results and innovation in service-oriented computing.

This volume contains the conference proceedings of ICSOC 2016, the 14th International Conference on Service-Oriented Computing, which took place at Banff, Alberta, Canada, October 10–13, 2016. ICSOC 2016 built upon the tradition of 13 previous successful editions that were held in Goa, India (2015), Paris, France (2014), Berlin, Germany (2013), Shanghai, China (2012), Paphos, Cyprus (2011), San Francisco, USA (2010), Stockholm, Sweden (2009), Sydney, Australia (2008), Vienna, Austria (2007), Chicago, USA (2006), Amsterdam, The Netherlands (2005), New York, USA (2004), and Trento, Italy (2003).

As with previous editions, this year’s call for papers generated substantial interest from the community. A total of 137 full research and industry submissions were received from 23 countries across six continents. Each paper submission was carefully reviewed by at least three members of the Program Committee (PC), followed by a rebuttal from its authors, and then discussions moderated by a senior PC member who made a recommendation in the form of a meta-review. The PC consisted of 180 world-class experts in service-oriented computing and related areas (158 PC members and 22 senior PC members) from 28 different countries. The ICSOC 2016 program featured 30 full papers (acceptance rate of 21 %) and 18 short papers in the research track. It also featured eight papers in the industry track. The selected papers covered a wide variety of important topics in the area of service-oriented computing, including foundational issues on service discovery and service-systems design, business process modelling and management, economics of service-systems engineering, as well as services on the cloud, social networks, the Internet of Things (IoT), and data analytics. The conference program was complemented by three outstanding keynotes given by Elisa Bertino (Purdue University, USA), Valérie Issarny (Inria, France), and Richard Hull (IBM Research, USA), demonstrations, a PhD symposium, a panel discussion, as well as a collection of seven workshops.

We would like to express our gratitude to all individuals, institutions, and sponsors that supported ICSOC 2016. This high-quality program would not have been possible without the expertise and dedication of our PC members and in particular our senior PC members. We are grateful for the guidance of the general chairs (Barbara Pernici and Munindar P. Singh), the untiring efforts of external reviewers, the workshop chairs

(Khalil Drira, Hongbing Wang, and Qi Yu), the PhD symposium chairs (François Charoy, Yan Wang, and Yuhong Yan), the demonstration chairs (Jan Mendling, Mohamed Mohamed, and Zhongjie Wang), the panel chairs (Boualem Benatallah, Heiko Ludwig, and Jianwu Su), the publicity chairs (Naouel Moha, Mohamed Sellami, Lucinéia Heloisa Thom, and Lina Yao), the publication chair (Sami Bhiri), the finance chair (Bernd J. Krämer), the Web chairs (Nguyen Khoi Tran and Wei Emma Zhang), and the local organization chair (Ying Zou). We also would like to acknowledge the support of the members of the conference Steering Committee. All of them helped make ICSOC 2016 a success. Finally, we would like to thank all researchers, practitioners, and students who contributed with their work and participation in the conference. We hope that you find the papers in the proceedings interesting and stimulating.

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Quan Z. Sheng
Eleni Stroulia
Samir Tata

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Sheng, Q.Z.; Stroulia, E.; Tata, S.; Bhiri, S. (Eds.)

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