

# Preface

These days, service-oriented computing and cloud computing have become pervasive in the software industry and the end-user market. We see services and the usage of cloud-based computational resources practically everywhere, regardless of particular application areas or target users. Service-oriented computing and cloud computing have gone a long way since their advent, but emerging technologies, aiming at the convergence of devices, networks, and the Internet of Things (IoT), sustain a very active research community aiming to develop these technologies further to build *smart* systems in research, business, and social contexts.

For the European research community, the European Conference on Service-Oriented and Cloud Computing (ESOCC) is the premier conference on advances in the state of the art and practice of service-oriented computing and cloud computing. The 6th event, ESOCC 2017, took place during September 27–29, 2017 at the University of Oslo, Norway, bringing together researchers and practitioners in the field.

ESOCC 2017 featured a number of events, most importantly the main research track, dedicated to the presentation of novel advances in the state of the art of service-oriented computing and cloud computing, and the industry track, dedicated to the presentation of applications and usage of services, concepts from service-oriented computing and cloud computing, and cloud-based computational resources in industry. Overall, 37 submissions were received, out of which 10 were accepted as full papers and another 6 as short papers. These papers (plus a keynote paper) are featured in these proceedings.

Each submission received at least three reviews by the members of the Program Committee (PC), with most submissions receiving four reviews. The review process was carried out in a “single blind” fashion. After the initial review phase, a discussion was initiated, which helped to further evaluate the strengths and weaknesses of the submissions. The program chairs thank the PC members and the additional reviewers for their accurate and extensive reviewing activities, which helped to improve the quality of the submissions and were also a big help to the authors of rejected papers.

This year, the conference featured a special track on the IoT, which aimed at showing how new requirements towards service-oriented computing and cloud computing arise because of the IoT. Vice versa, the second aim of this track was to show how the ESOCC community contributes to fulfilling the technical needs (and therefore the success) of the IoT.

As part of the main technical program, two inspiring keynotes were given by Stefan Tai (Full Professor and Head of Chair Information Systems Engineering at TU Berlin, Germany) and Hatay Tuna (Principal Software Architect, Azure Engineering, Microsoft). Stefan provided a talk on “Blockchain Insights”, showing the potential of blockchain technologies to transform how organizations produce and capture value. Hatay gave insights on key experiences, patterns, and practices for “Design for Cloud”.

Along with the main conference program, ESOCC featured a PhD symposium and an EU projects track, bringing together PhD students and EU project participants, respectively. In addition, three workshops were planned: REthinking SERvices CHallenges – Services Meet Data (IFIP WG SOS Workshop 2017), BPM@Cloud, and the 3rd International Workshop on Cloud Adoption and Migration (CloudWays). The proceedings are published separately.

The program chairs and the general chair would like to express their deep appreciation to all those who helped to make ESOCC 2017 a success. This includes the 55 PC members and the additional reviewers, the chairs and organizers of the PhD symposium, workshops, and EU projects track, as well as the many unnamed helpers who contributed in the background. We are especially grateful to the local organizing committee for their support, organizational efforts, and hospitality. Also, our thanks go to IFIP for supporting ESOCC 2017.

Finally, we thank all authors of research and industry papers, and those who presented their results, for contributing to this successful conference. With their work and dedication, ESOCC continues its tradition in advancing the field of service-oriented computing and cloud computing.

September 2017

Flavio De Paoli  
Stefan Schulte  
Einar Broch Johnsen

Service-Oriented and Cloud Computing

6th IFIP WG 2.14 European Conference, ESOC 2017,

Oslo, Norway, September 27-29, 2017, Proceedings

De Paoli, F.; Schulte, S.; Broch Johnsen, E. (Eds.)

2017, XII, 239 p. 91 illus., Softcover

ISBN: 978-3-319-67261-8