

Preface

This volume contains the proceedings of DAIS 2016, the 16th IFIP International Conference on Distributed Applications and Interoperable Systems, sponsored by the IFIP (International Federation for Information Processing) and organized by the IFIP Working Group 6.1.

DAIS was held during June 4–7, 2016, in Heraklion, Crete, Greece, as part of DisCoTec, the 11th International Federated Conference on Distributed Computing Techniques, together with FORTE (the 36th IFIP International Conference on Formal Techniques for Distributed Objects, Components and Systems) and COORDINATION (the 18th IFIP International Conference on Coordination Models and Languages).

There were 34 submissions for DAIS. Each submission was reviewed by at least three, and on average 3.8, Program Committee members. The committee decided to accept 13 full papers and three short papers, resulting in an acceptance rate of 38 % for full papers. Out of the 13 accepted full papers, five were chosen after a shepherding process, during which a committee member helped the authors implement the improvements required by the reviewers.

The accepted papers represent a compelling sample of the state of the art in the area of distributed applications and interoperable systems. Cloud computing and services received a large emphasis this year. The proceedings include contributions on resource management (optimizing energy consumption, adaptive optimization of Hadoop parameters, predicting resource usage, and an investigation of erasure coding libraries for redundancy) as well as techniques for cloud-based data processing and computing (shuffling methods, GPU access from virtual machines, and edge-cloud computing). In the area of decentralized systems, we have contributions on self-organizing DHTs, decentralized social networks, and content distribution systems. The area of Byzantine fault tolerance is also represented as well as the emerging area of complex event processing, where performance, load balancing, and language support are investigated.

The conference was made possible by the work and cooperation of many people working in several committees and organizations that are listed in these proceedings. In particular, we thank the Program Committee members for their commitment and thorough reviews and for their active participation in the discussion and shepherding phases, and all the external reviewers for their help in evaluating submissions. We would like to thank the publicity chair, Valerio Schiavoni, for his excellent work in publicizing DAIS 2016. We would also like to thank Tim Harris, our invited keynote speaker. Finally, we also thank the DisCoTec general chair, Kostas Magoutis, and the DAIS Steering Committee chair, Rui Oliveira, for their constant availability, support, and guidance.

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