

Preface

This volume contains the proceedings of COORDINATION 2016: the 18th IFIP WG 6.1 International Conference on Coordination Models and Languages held during June 6–9, 2015, in Heraklion, Crete. The conference was co-located with FORTE and DAIS, as part of the DisCoTec federated conferences on distributed computing techniques.

COORDINATION is the premier forum for publishing research results and experience reports on software technologies for collaboration and coordination in concurrent, distributed, and complex systems. The key focus of the conference is the quest for high-level abstractions that can capture interaction patterns and mechanisms occurring at all levels of the software architecture, up to the end-user domain. COORDINATION 2016 solicited high-quality contributions on the usage, study, formal analysis, design, and implementation of languages, models, and techniques for coordination in distributed, concurrent, pervasive, and parallel software-intensive computing systems. COORDINATION 2016 also solicited contributions aimed at adapting and integrating traditional COORDINATION techniques in the realm of multi-agent systems (MAS), which typically involve more coarse-grained (cognitive, intelligent, goal-oriented) components.

The Program Committee (PC) of COORDINATION 2016 consisted of 32 prominent researchers from 19 different countries. We received 44 submissions out of which the PC selected 16 full papers for inclusion in the program. All submissions were reviewed by at least three independent referees; papers were selected based on their quality, originality, contribution, clarity of presentation, and relevance to the conference topics. The review process included an in-depth discussion phase, during which the merits of all papers were discussed by the PC. The selected papers constituted a program covering a varied range of topics and techniques related to system coordination, including: programming and communication abstractions; communication protocols and behavioral types; actors and concurrent objects; tuple spaces; games, interfaces, and contracts; information flow policies and dissemination techniques; and probabilistic models and formal verification. The program was further enhanced by an invited talk by Vijay Saraswat from IBM T.J. Watson Research Lab (USA).

The success of COORDINATION 2016 was due to the dedication of many people. We would like to thank the Steering Committee for inviting us to chair the conference, the authors for submitting high-quality papers, the PC and their subreviewers for their careful reviews and lively discussions during the final selection process, and the invited speaker for his keynote. We also thank the providers of the EasyChair conference management system, which was used to run the review process and to generate the proceedings. Finally, we thank the Organizing Committee from Heraklion, led by Kostas Magoutis, for its contribution in making the logistic aspects of COORDINATION 2016 a success.

Coordination Models and Languages

18th IFIP WG 6.1 International Conference,

COORDINATION 2016, Held as Part of the 11th

International Federated Conference on Distributed

Computing Techniques, DisCoTec 2016, Heraklion,

Crete, Greece, June 6-9, 2016, Proceedings

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2016, XIV, 279 p. 83 illus., Softcover

ISBN: 978-3-319-39518-0