

Preface

This volume contains the papers presented at the 24th International Colloquium on Structural Information and Communication Complexity: SIROCCO 2017, held during June 19–21, 2017, at Porquerolles, France. SIROCCO is devoted to the study of the interplay between structural knowledge, communication, and computing in decentralized systems of multiple communicating entities. Special emphasis is given to innovative approaches leading to better understanding of the relationship between computing and communication. The typical areas of interest include distributed computing, communication networks, game theory, parallel computing, social networks, mobile computing (including autonomous robots), peer-to-peer systems, and communication complexity.

This year we received 41 submissions in response to the call for papers and the Program Committee decided to accept 21 papers after a careful review and in-depth discussions. Each submission was reviewed by at least three reviewers; we had a total of 20 Program Committee members supported by 42 additional reviewers. The article “Leader Election in SINR Model with Arbitrary Power Control,” by Magnus M. Halldorsson, Stephan Holzer, and Evangelia Anna Markatou received the Best Paper Award at SIROCCO 2017. Selected papers from the colloquium were invited to a special issue of the *Theoretical Computer Science* journal.

In addition to the regular contributed talks, the conference program included invited talks by Faith Ellen, Christian Scheideler, and Christoph Lenzen, and the award lecture by Shmuel Zaks, who received the 2017 SIROCCO Prize for Innovation in Distributed Computing. Short abstracts of all invited lectures, as well as a laudatio summarizing the numerous important innovative contributions of the award recipient Shmuel Zaks, are included in this volume.

We would like to thank all authors for their high-quality submissions and all speakers for their excellent talks at the conference. We are specially grateful to the Program Committee members and all additional reviewers who worked on a tight schedule to deliver an excellent conference program. The preparation of this event was guided by the SIROCCO Steering Committee, headed by Andrzej Pelc; we thank them for their help and support. The local organization of the conference was possible due to the efforts of the members of the Organizing Committee who were supported by the staff from the Laboratoire d’Informatique Fondamentale (LIF) at the Aix-Marseille University. The organizers of SIROCCO 2017 would like to acknowledge the financial support of our sponsors: LIF—Laboratory of Theoretical Computer Science, LabEx-Archimede Center of excellence, FRIIAM—Federation for research in Computer Science and Interactions, CNRS France, and Aix-Marseille University. Springer

not only helped with the publication of these proceedings but also sponsored the best paper award. The EasyChair system was used to handle the submission of papers, manage the review process, and generate these proceedings.

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