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# Structural Information and Communication Complexity

17th International Colloquium, SIROCCO 2010  
Şirince, Turkey, June 7-11, 2010  
Proceedings

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# Preface

The Colloquium on Structure, Information, Communication, and Complexity (SIROCCO) is devoted to the study of communication and knowledge in multi-processor systems from both the qualitative and quantitative viewpoints. Special emphasis is given to innovative approaches and fundamental understanding, in addition to efforts to optimize current designs.

SIROCCO has a tradition of interesting and productive scientific meetings in a relaxed and pleasant atmosphere, attracting leading researchers in a variety of fields in which communication and knowledge play a significant role. Consistent with this tradition, the 17th SIROCCO meeting was held in Turkey, in the picturesque Nesin Mathematics Village, Şirince, İzmir, during June 7–11 2010.

Thirty-seven papers were submitted to SIROCCO 2010. All papers underwent a thorough peer-review process, where each submission was reviewed by three to six reviewers. The reviews were the basis of the Program Committee deliberations, which resulted in selecting 19 contributions for presentation at the colloquium and publication in this volume.

The presentations in this volume also include the abstract of an invited talk on communication complexity, given by Eyal Kushilevitz.

We thank the authors of all the submitted papers, the Program Committee members, and the external reviewers. Without their dedication, we could not have prepared a program of such quality.

We would also like to thank the SIROCCO Steering Committee Chair, Pierre Fraigniaud, for his energy and leadership in making this conference happen.

Last but not least, we would like to thank the local arrangements people from Nesin Mathematics Village, notably Aslı Can Korkmaz and the many students who volunteered on the organization team, for their invaluable help.

Boaz Patt-Shamir  
Tınaz Ekim

# 2010 Prize for Innovation in Distributed Computing

The Prize for Innovation in Distributed Computing for 2010 was awarded to Jean-Claude Bermond (CNRS, INRIA Sophia-Antipolis, and Université Nice Sophia Antipolis). The prize was given in recognition of Bermond's contribution to the study of the impact of structure of networks on the efficiency of parallel or distributed algorithms, as illustrated by several papers that have appeared in the proceedings of past SIROCCO meetings. These papers tackled a wide variety of problems including routing, broadcasting, gossip protocols, traffic grooming, fault-tolerant network design, monopolies, and other topics.

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