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Structural Information and Communication Complexity

14th International Colloquium, SIROCCO 2007
Castiglioncello, Italy, June 5-8, 2007
Proceedings

 Springer

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Preface

The Colloquium on Structural Information and Communication Complexity (SIROCCO) is an annual meeting focused on the relationship between algorithmic aspects of computing and communication. Over its 14 years of existence, SIROCCO has become an acknowledged forum bringing together specialists interested in the fundamental principles underlying the interplay between information, communication, and computing. SIROCCO covers topics such as distributed computing, high-speed networks, interconnection networks, mobile computing, optical computing, parallel computing, sensor networks, wireless networks, and autonomous robots. Its topics of interest include communication complexity, distributed algorithms and data structures, information dissemination, mobile agent computing, models of communication, network topologies, routing protocols, sense of direction, structural properties, and selfish computing.

SIROCCO 2007 was held in Castiglioncello (LI), Italy, June 5–8, 2007. The previous 13 SIROCCO colloquia took place in Ottawa (1994), Olympia (1995), Siena (1996), Ascona (1997), Amalfi (1998), Lacanau-Océan (1999), L’Aquila (2000), Val de Nuria (2001), Andros (2002), Umeå (2003), Smolenice Castle (2004), Mont Saint-Michel (2005), and Chester (2006).

The 66 contributions submitted to SIROCCO 2007 were subject to a thorough refereeing process, and 23 high-quality submissions were selected for publication. We would like to thank the authors of all the submitted papers. The excellent quality of the final program is also due to the dedicated and careful work of the Program Committee members. Our gratitude extends to them. We also thank the numerous sub-referees for their valuable help.

We had four invited speakers: Hans Bodlaender (Utrecht), Luisa Gargano (Salerno), S. Muthukrishnan (Google), and Alessandro Panconesi (Rome). We thank them for accepting our invitation to share their insights on new developments in their areas of interest.

We would like to express our gratitude to the conference Chair Pierre Fraignaud (CNRS and Paris) for his enthusiasm and invaluable consultations.

Special thanks go to the local Organizing Team of the Dipartimento di Informatica, Università di Pisa, and in particular to Vincenzo Gervasi.

We acknowledge the use of the EasyChair system (for handling the submission of papers, managing the refereeing process, and generating these proceedings).

We thank the Università di Pisa, and its Dipartimento di Informatica, for their generous support. SIROCCO 2007 was co-located with FUN 2007 and with a meeting of the EU COST 293 action (GRAAL - Graphs and Algorithms in Communication Networks). The two sessions of the invited talks were held

jointly with the GRAAL meeting. We thank the Management Committee of GRAAL, and especially their past and present Chairs Xavier Munoz and Arie Koster, for supporting the idea of this joint event and for their generous support.

June 2007

Giuseppe Prencipe
Shmuel Zaks

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