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Structural Information and Communication Complexity

13th International Colloquium, SIROCCO 2006
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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 13 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, autonomous robots, and related areas.

SIROCCO 2006 was the 13th in this series, held in Chester, UK, July 3–5, 2006. Previous 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), and Mont Saint-Michel (2005).

In the tradition of previous occasions, this year's SIROCCO was a lively event, encouraging the emergence of new research areas (related to distributed computing in a broad sense) and the dissemination of original ideas. This was achieved by dedicating ample time for informal discussions and open problem sessions in addition to regular conference activities.

The 68 contributions submitted to SIROCCO 2006 were subject to a thorough refereeing process and 24 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 the numerous subreferees for their valuable help.

We also thank the invited speakers: Hagit Attiya (Technion), Danny Krizanc (Wesleyan), and Roger Wattenhofer (ETH) for accepting our invitation to share their insights on new developments in their areas of interest, and for providing such entertaining talks.

We would like to express our sincere gratitude to the conference Chair David Peleg (Weizmann) for his enthusiasm and invaluable consultations, as well as the local organizing team, in particular Christoph Ambühl, Catherine Atherton, Alexey Fishkin, Dave Shield and Prudence Wong. Finally we would like to thank EPSRC and the University of Liverpool for their support.

These proceedings include all the accepted papers revised according to the feedback provided by the Program Committee, as well as the paper versions of the three invited talks. We hope you will enjoy them as much as we did at the conference.

July 2006

Paola Flocchini and Leszek Gąsieniec
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