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Proceedings

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Preface

This volume is the proceedings of the International Conference LATIN'98, Latin American Theoretical INformatics, held in Campinas, Brazil, April 20–24, 1998.

This event is the third of a series started with LATIN'92, organized in São Paulo, Brazil, in April 1992, and continued with LATIN'95, organized in Valparaíso, Chile, in April 1995. The aim of the conference is to provide a high level forum for theoretical computer science research in Latin America, and to promote a strong and healthy interaction with the international scientific community.

The LATIN conferences focus on theory of computing, but in Latin America it is quite common to group under this umbrella fields which are sometimes classified otherwise, such as graph theory and combinatorics on words. After a lengthy and passionate discussion among the Program Committee members, papers on these subjects were considered. We hope that this policy will become a tradition in future editions of the conference. We received 53 submissions, from 104 authors in some 15 different countries. The 33 papers in this volume include 5 articles by invited speakers and 28 papers selected by the Program Committee based on some 160 reports filed by Committee members and other referees.

We would like to thank all individuals and organizations who cooperated with this event. In particular, the continued commitment of Springer-Verlag to publish the proceedings in its Lecture Notes in Computer Science series has strongly contributed to the success of this conference. We would also like to thank Imre Simon and Adriano Nagelschmidt Rodrigues who provided an intranet site for the Program Committee at the University of São Paulo, which proved to be essential for the multiple discussions among the PC members.

Undoubtedly LATIN is the main Latin American event in theoretical computer science. We feel confident that it is also gradually becoming a tradition in the computer science community.

Cláudio L. Lucchesi
Program Chair

April 1998

Arnaldo V. Moura
Program Vice-Chair

The Conference

Local Arrangements

The local arrangements for the conference were handled by the Institute of Computing of the University of Campinas (IC-UNICAMP), in Campinas, Brazil.

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FAPESP (State of São Paulo Research Funding Agency),
CNPq (Brazilian Council for Scientific and Technological Development),
CAPES Foundation (Brazilian Ministry of Education),
FAEP Foundation (University of Campinas), and
Institute of Computing (University of Campinas).

Cooperation

EATCS (European Association for Theoretical Computer Science),
SBC (Brazilian Computing Society),
SCCC (Chilean Computer Science Society),
SIGACT - ACM (Association for Computing Machinery),
SMCC (Mexican Computer Science Society), and
UMALCA (Mathematical Union of Latin America and Caribe).

Invited Speakers

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Eli Upfal (Weizmann Inst., Israel and IBM, Almaden, USA)
Jorge Urrutia (Univ. of Ottawa, Canada)
Nivio Ziviani (UFMG, Brazil)

Referees

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Siang Wun Song
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John Stembridge
Jean-Marc Steyaert
Jorge Stolfi
Routo Terada
Jacques Wainer
Yoshiko Wakabayashi
Jerzy Wojciechowski

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