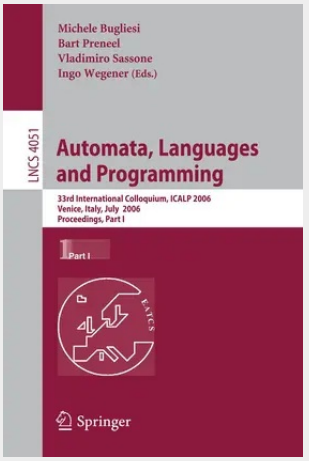
Bugliesi / Preneel / Sassone

Automata, Languages and Programming

33rd International Colloquium, ICALP 2006, Venice, Italy, July 10-14, 2006, Proceedings, Part I

The two-volume set LNCS 4051 and LNCS 4052 constitutes the refereed proceedings of the 33rd International Colloquium on Automata, Languages and Programming, ICALP 2006, held in Venice, Italy, July 2006. In all, these volumes present more 100 papers and lectures. Volume I (4051) presents 61 revised full papers together with 1 invited lecture, focusing on algorithms, automata, complexity and games, on topics including graph theory, quantum computing, and more.

ICALP 2006, the 33rd edition of the International Colloquium on Automata, LanguagesandProgramming,washeldinVenice,Italy,July10–14,2006.ICALP is a series of annual conferences of the European Association for Theoretical ComputerScience(EATCS)which?rsttookplacein1972.Thisyear,theICALP programconsistedof the establishedtrackA (focusing on algorithms,automata, complexity and games) and track B (focusing on logic, semantics and theory of programming), and of the recently introduced track C (focusing on security and cryptography foundation). In response to the call for papers, the Program Committee received 407 s- missions, 230 for track A, 96 for track B and 81 for track C. Out of these, 109 papers were selected for inclusion in the scienti?c program: 61 papers for Track A, 24 for Track B and 24 for Track C. The selection was made by the Program Committee based on originality, quality, and relevance to theoretical computer science. The quality of the manuscripts was very high indeed, and several - serving papers had to be rejected. ICALP 2006 consisted of four invited lectures and the contributed papers. This volume of the proceedings contains all contributed papers presented at the conference in Track A, together with the paper by the invited speaker Noga Alon (Tel Aviv University, Israel). A companion volume contains all contributed paperspresentedinTrackBandTrackCtogetherwiththepapersbytheinvited speakers Cynthia Dwork (Microsoft Research, USA) and Prakash Panangaden (Mc Gill University, Canada). The programhad an additional invited lecture by Simon Peyton Jones (Microsoft Research, UK), which does not appear in the proceedings.



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