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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 3580
Disciplina	004
Soggetti	Computer science Mathematical logic Software engineering Data structures (Computer science) Information theory Artificial intelligence—Data processing Computer Science Mathematical Logic and Foundations Theory of Computation Software Engineering Data Structures and Information Theory Data Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Lectures -- Data Structures I -- Cryptography and Complexity -- Data Structures II -- Cryptography and Distributed Systems -- Graph Algorithms I -- Security Mechanisms -- Graph Algorithms II -- Automata and Formal Languages I -- Signature and Message Authentication -- Algorithmic Game Theory -- Automata and Logic -- Computational Algebra -- Cache-Oblivious Algorithms and Algorithmic Engineering -- On-line Algorithms -- Security Protocols Logic -- Random Graphs -- Concurrency I -- Encryption and related Primitives

-- Approximation Algorithms I -- Games -- Approximation Algorithms II -- Lower Bounds -- Probability -- Approximation Algorithms III -- Automata and Formal Languages II -- Approximation Algorithms IV -- Algebraic Computation and Communication Complexity -- Concurrency II -- String Matching and Computational Biology -- Quantum Complexity -- Analysis and Verification -- Geometry and Load Balancing -- Concrete Complexity and Codes -- Model Theory and Model Checking.

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## Sommario/riassunto

The 32nd International Colloquium on Automata, Languages and Programming (ICALP 2005) was held in Lisbon, Portugal from July 11 to July 15, 2005. These proceedings contain all contributed papers presented at ICALP 2005, together with the papers by the invited speakers Giuseppe Castagna (ENS), Leonid Libkin (Toronto), John C. Mitchell (Stanford), Burkhard Monien (Paderborn), and Leslie Valiant (Harvard). The program had an additional invited lecture by Adi Shamir (Weizmann Institute) which does not appear in these proceedings. ICALP is a series of annual conferences of the European Association for Theoretical Computer Science (EATCS). The first ICALP took place in 1972. This year, the ICALP program consisted of the established track A (focusing on algorithms, automata, complexity and games) and track B (focusing on logic, semantics and theory of programming), and innovated on the structure of its traditional scientific program with the inauguration of a new track C (focusing on security and cryptography foundation). In response to a call for papers, the Program Committee received 407 submissions, 258 for track A, 75 for track B and 74 for track C. This is the highest number of submitted papers in the history of the ICALP conferences. The Program Committees selected 113 papers for inclusion in the scientific program. In particular, the Program Committee for track A selected 65 papers, the Program Committee for track B selected 24 papers, and the Program Committee for track C selected 24 papers. All the work of the Program Committees was done electronically.

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