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Soggetti	Data structures (Computer science) Programming languages (Electronic computers) Computers Computer graphics Computer communication systems Data Structures and Information Theory Programming Languages, Compilers, Interpreters Theory of Computation Data Structures Computer Graphics Computer Communication Networks
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Breaking and fixing the Needham-Schroeder public-key protocol using FDR -- Reconciling Two Views of Cryptography -- Theory and Construction of Molecular Computers -- Theory and Construction of Molecular Computers -- On the hardness of the permanent -- List Decoding: Algorithms and Applications -- Approximation Algorithms for String Folding Problems -- Approximation Algorithms for String Folding Problems -- Fast multi-dimensional approximate string matching -- An Index for Two Dimensional String Matching Allowing Rotations -- Parallel Edge Coloring of a Tree on a Mesh Connected

Computer -- Parallel Edge Coloring of a Tree on a Mesh Connected
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Weighted Matching in General Graphs -- Parallel Approximation
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Is on the Boundary: Complexity Considerations for Polynomial Ideals --
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An Efficient Parallel Algorithm for Scheduling Interval Ordered Tasks --
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Steganography Using Modern Arts -- Gossiping in Vertex-Disjoint
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monadic mobile processes -- Type Systems for Concurrent Processes:
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-- Hypothesis Support for Information Integration in Four-Valued
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Components -- Session 2.5 -- A Single Complete Refinement Rule for

Demonic Specifications -- Reasoning about Composition Using Property Transformers and Their Conjugates -- Invited Talk 2.3 -- Some New Directions in the Syntax and Semantics of Formal Languages -- Panel Discussion on New Challenges for TCS -- New Challenges for Theoretical Computer Science -- Algorithm Design Challenges -- Quantumization of Theoretical Informatics -- Two Problems in Wide Area Network Programming -- New Challenges for Computational Models -- Towards a Computational Theory of Everything -- Open Lectures -- On the Power of Interactive Computing -- The Varieties of Programming Language Semantics.

Sommario/riassunto

In 1996 the International Federation for Information Processing (IFIP) established its first Technical Committee on foundations of computer science, TC1. The aim of IFIP TC1 is to support the development of theoretical computer science as a fundamental science and to promote the exploration of fundamental concepts, models, theories, and formal systems in order to understand laws, limits, and possibilities of information processing. This volume constitutes the proceedings of the first IFIP International Conference on Theoretical Computer Science (IFIP TCS 2000) { Exploring New Frontiers of Theoretical Informatics } organized by IFIP TC1, held at Tohoku University, Sendai, Japan in August 2000. The IFIP TCS 2000 technical program consists of invited talks, contributed talks, and a panel discussion. In conjunction with this program there are two special open lectures by Professors Jan van Leeuwen and Peter D. Mosses. The decision to hold this conference was made by IFIP TC1 in August 1998, and since then IFIP TCS 2000 has benefited from the efforts of many people; in particular, the TC1 members and the members of the Steering Committee, the Program Committee, and the Organizing Committee of the conference. Our special thanks go to the Program Committee Co-chairs: Track (1): Jan van Leeuwen (U. Utrecht), Osamu Watanabe (Tokyo Inst. Tech.) Track (2): Masami Hagiya (U. Tokyo), Peter D. Mosses (U. Aarhus).
