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Nota di contenuto	Session 1A -- Biased Skip Lists -- Space-Efficient Data Structures for Flexible Text Retrieval Systems -- Key Independent Optimality -- On the Comparison-Addition Complexity of All-Pairs Shortest Paths -- On the Comparison-Addition Complexity of All-Pairs Shortest Paths -- On the Clique-Width of Graphs in Hereditary Classes -- On the Clique-Width of Graphs in Hereditary Classes -- The Probability of a Rendezvous Is Minimal in Complete Graphs -- The Probability of a Rendezvous Is Minimal in Complete Graphs -- On the Minimum Volume of a Perturbed Unit Cube -- On the Minimum Volume of a Perturbed Unit Cube -- Non-Delaunay-Based Curve Reconstruction -- Non-Delaunay-Based Curve Reconstruction -- Cutting a Country for Smallest Square Fit -- Cutting a Country for Smallest Square Fit -- On the Emptiness Problem for Two-Way NFA with One Reversal-Bounded Counter -- On the Emptiness Problem for Two-Way NFA with One Reversal-Bounded Counter -- Quantum Multi-prover Interactive Proof Systems with Limited Prior Entanglement -- Quantum Multi-prover Interactive Proof Systems with Limited Prior Entanglement -- Some Remarks on the L-Conjecture -- Some Remarks on the L-Conjecture -- Session 3A -- A Framework for Network Reliability Problems on Graphs of Bounded Treewidth -- A Faster Approximation Algorithm for 2-Edge-Connectivity Augmentation -- Tree Spanners on Chordal Graphs: Complexity, Algorithms, Open Problems -- Session 3B -- An Asymptotic Fully Polynomial Time Approximation Scheme for Bin Covering -- Improved Approximation Algorithms for Max-2SAT with Cardinality Constraint -- A Better Approximation for the Two-Stage Assembly Scheduling Problem with Two Machines at the First Stage -- Session 4A -- Queaps -- Funnel Heap-A Cache Oblivious Priority Queue -- Characterizing History Independent Data Structures -- Session 4B -- Faster Fixed Parameter Tractable Algorithms for Undirected Feedback Vertex Set -- An $O(pn + 1.151p)$-Algorithm for p-Profit Cover and Its Practical Implications for Vertex Cover -- Exponential Speedup of Fixed-Parameter Algorithms on $K_{3,3}$-Minor-Free or K_5-Minor-Free Graphs -- Session 5A -- Casting a Polyhedron with Directional Uncertainty -- Hierarchy of Surface Models and Irreducible Triangulation -- Algorithms and Complexity for Tetrahedralization Detections -- Session 5B -- Average-Case Communication-Optimal Parallel Parenthesis Matching -- Optimal F-Reliable Protocols for the Do-All Problem on Single-Hop Wireless Networks -- New Results for Energy-Efficient Broadcasting in Wireless Networks -- Session 6A -- An Improved Algorithm for the Minimum Manhattan Network Problem -- Approximate Distance Oracles Revisited -- Flat-State Connectivity of Linkages under Dihedral Motions -- Session 6B -- Project Scheduling with Irregular Costs: Complexity, Approximability, and Algorithms -- Scheduling of Independent Dedicated Multiprocessor Tasks -- On the Approximability of Multiprocessor Task Scheduling Problems -- Session 7A -- Bounded-Degree Independent Sets in Planar Graphs -- Minimum Edge Ranking Spanning Trees of Threshold Graphs -- File Transfer Tree Problems -- Session 7B -- Approximation Algorithms for Some Parameterized Counting Problems -- Approximating MIN k-SAT -- Average-Case

Competitive Analyses for Ski-Rental Problems -- Session 8A -- On the Clique Problem in Intersection Graphs of Ellipses -- A Geometric Approach to Boolean Matrix Multiplication -- The Min-Max Voronoi Diagram of Polygons and Applications in VLSI Manufacturing -- Session 8B -- Improved Distance Oracles for Avoiding Link-Failure -- Probabilistic Algorithms for the Wakeup Problem in Single-Hop Radio Networks -- A Simple, Memory-Efficient Bounded Concurrent Timestamping Algorithm -- Session 9A -- Crossing Minimization for Symmetries -- Simultaneous Embedding of a Planar Graph and Its Dual on the Grid -- Meaningful Information -- Session 9B -- Optimal Clearing of Supply/Demand Curves -- Partitioning Trees of Supply and Demand -- Maximizing a Voronoi Region: The Convex Case -- Invited Talks -- Random Tries -- Expected Acceptance Counts for Finite Automata with Almost Uniform Input -- Monotone Drawings of Planar Graphs.

Sommario/riassunto

This volume contains the papers selected for presentation at the Thirteenth Annual International Symposium on Algorithms and Computation (ISAAC 2002) to be held in Vancouver, Canada on November 21-23, 2002. This is the first time that ISAAC has ventured into North America, as it is traditionally held in the Asia-Pacific region. ISAAC is an annual international symposium that covers the very broad areas of algorithms and computing in general. The scope of this symposium includes both theoretical and applied research from these fields. The main aim of the symposium is to promote the exchange of ideas in this active research community. The specific themes targeted for ISAAC 2002 were Computational Geometry, Algorithms and Data Structures, Approximation Algorithms, Randomized Algorithms, Graph Drawing and Graph Algorithms, Combinatorial Optimization, Computational Biology, Computational Finance, Cryptography, and Parallel and Distributed Computing. In response to our call for papers, we received close to 160 submissions. The challenging task of selecting the papers for presentation was performed by the members of our program committee, their support staff, and referees. All of them deserve special thanks for their hard work in the difficult task of selecting among 54 papers from the high-quality submissions. Unfortunately, due to the time constraints imposed by a three-day conference, we were forced to turn away many excellent papers. John Iacono will receive the traditional best paper award for his paper entitled Key Independent Optimality. Our three invited speakers are Luc Devroye from McGill University who will speak on Random Tries, Janos Pach from New York University who will speak on Monotone Drawings of Planar Graphs, and Nicolas Pippenger from the University of British Columbia who will speak on the Expected Acceptance Counts for Finite Automata with Almost Uniform Input. No conference can succeed without exceptional local organization. For the often overlooked and thankless task of finding a suitable venue and banquet location, dealing with the logistics of registration, organizing lunches and coffee, etc., we would like to thank the organizing committee, Nadja Rence, and Olga Stachova for all their efforts above and beyond the call of duty. We thank our sponsors Simon Fraser University, the Pacific Institute of Mathematical Sciences, the Institute for Mathematics of Information Technology and Complex Systems, and Bajaj Inc. for their generous support. Finally, we thank all the authors and participants. We hope this edition of ISAAC will be a success.