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Descrizione fisica	1 online resource (699 pages)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 13025
Disciplina	003.56
Soggetti	Computer science Data structures (Computer science) Information theory Computer science—Mathematics Algorithms Theory of Computation Data Structures and Information Theory Mathematics of Computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Algorithms -- Limitations of the Impagliazzo-Nisan-Wigderson Pseudorandom Generator against Permutation Branching Programs -- All-to-All Broadcast in Dragonfly Networks -- An Efficient Algorithm for Enumerating Longest Common Increasing Subsequences -- On Singleton Congestion Games with Resilience Against Collusion -- A Pivot Gray Code Listing for the Spanning Trees of the Fan Graph -- Approximation Algorithms -- General Max-Min Fair Allocation -- On the approximation hardness of geodetic set and its variants -- Approximate Distance Oracles with Improved Stretch for Sparse Graphs -- Hardness and Approximation Results of Roman $\{3\}$ -Domination in Graphs -- Approximation algorithms for priority Steiner tree problems -- Sublinear-Space Approximation Algorithms for Max r-SAT -- A

Further Improvement on Approximating TTP-2 -- Automata --  
 Sequence graphs realizations and ambiguity in language models --  
 Between SC and LOGDCFL: Families of Languages Accepted by  
 Polynomial-Time Logarithmic-Space Deterministic Auxiliary Depth-k  
 Storage Automata -- Ideal Separation and General Theorems for  
 Constrained Synchronization and their Application to Small Constraint  
 Automata -- Most Pseudo-copy Languages Are Not Context-free --  
 Computational Geometry -- Bottleneck Convex Subsets: Finding  $k$   
 Large Convex Sets in a Point Set -- Deterministic metric 1-median  
 selection with a  $1 - o(1)$  fraction of points ignored -- The Coverage  
 problem by Aligned Disks -- Consistent Simplification of Polyline Tree  
 Bundles -- Improving Upper and Lower Bounds for the Total Number of  
 Edge Crossings of Euclidean Minimum Weight Laman Graphs --  
 Minimum Color Spanning Circle in Imprecise Setup -- Fault Tolerant  
 Computing and Fault Diagnosis -- Reliability Evaluation of Subsystem  
 Based on Exchanged Hypercube -- Fault diagnosability of regular  
 networks under the Hybrid PMC model -- A Study for Conditional  
 Diagnosability of Pancake Graphs -- A new measure for locally  $t$ -  
 diagnosable under PMC model -- Graph Algorithms -- Colouring  
 graphs with no induced six-vertex path or diamond -- Constructing  
 Tri-CISTs in Shu  $e$ -Cubes -- Reconfiguring Directed Trees in a Digraph  
 -- Decremental Optimization of Vertex-Coloring Under the  
 Reconfiguration Framework -- Embedding Three Edge-disjoint  
 Hamiltonian Cycles into Locally Twisted Cubes -- On the Probe Problem  
 for  $(r,l)$ -Well-Coveredness -- Distinguishing graphs via cycles -- Graph  
 Theory and Applications -- The Restrained Domination and  
 Independent Restrained Domination in Extending Supergrid Graphs --  
 The Concentration of the Maximum Degree in the Duplication-  
 Divergence Models -- Conditional Fractional Matching Preclusion for  
 Burnt Pancake Graphs and Pancake-Like Graphs -- The Weakly  
 Dimension-balanced Pancyclicity on Toroidal Mesh Graph  $T_{m,n}$  when  
 Both  $m$  and  $n$  Are Odd -- Hypercontractivity via Tensor Calculus --  
 Network and Algorithms -- Respecting Lower Bounds in Uniform Lower  
 and Upper Bounded Facility Location Problem -- Finding Cheapest  
 Deadline Paths -- Approximate the Lower-Bounded Connected Facility  
 Location Problem -- Mechanism Design for Facility Location with  
 Fractional Preferences and Minimum Distance -- Online Algorithm and  
 Streaming Algorithms -- On the Hardness of Opinion Dynamics  
 Optimization with  $L_1$ -Budget on Varying Susceptibility to Persuasion --  
 Symmetric Norm Estimation and Regression on Sliding Windows --  
 Single-Pass Streaming Algorithms to Partition Graphs into Few Forests  
 -- The Secretary Problem with Reservation Costs -- Online Ride-  
 Hitching in UAV Travelling -- Parameterized Complexity and  
 Algorithms Disconnected Matchings -- On the  $d$ -Claw Vertex Deletion  
 Problem -- Constrained Hitting Set Problem with Intervals -- Exact  
 algorithms for maximum weighted independent set on sparse graphs  
 -- Recreational Games -- Two Standard Decks of Playing Cards are  
 Sufficient for a ZKP for Sudoku -- Token Shifting on Graphs --  
 Computational Complexity of Jumping Block Puzzles -- A Card-  
 minimal Three-Input AND Protocol Using Two Shuffles -- Spy game:  
 FPT-algorithm and results on graph products -- .

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## Sommario/riassunto

This book constitutes the proceedings of the 27th International  
 Conference on Computing and Combinatorics, COCOON 2021, held in  
 Tainan, Taiwan, in October 2021. Due to the COVID-19 pandemic,  
 COCOON 2021 was organized as a hybrid conference. The 56 papers  
 presented in this volume were carefully reviewed and selected from 131  
 submissions. The papers are divided into the following topical sub-  
 headings: algorithms, approximation algorithms, automata,

computational geometry, fault tolerant computing and fault diagnosis, graph algorithms, graph theory and applications, network and algorithms, online algorithm and stream algorithms, parameterized complexity and algorithms, and recreational games.

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