

1. Record Nr.	UNISA996647864003316
Autore	Chen Yong
Titolo	Computing and Combinatorics : 30th International Conference, COCOON 2024, Shanghai, China, August 23–25, 2024, Proceedings, Part II // edited by Yong Chen, Xiaofeng Gao, Xiaoming Sun, An Zhang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819610938 9819610931
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (1059 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 15162
Altri autori (Persone)	GaoXiaofeng SunXiaoming <1955-> ZhangAn
Disciplina	004.0151
Soggetti	Computer science Image processing - Digital techniques Computer vision Data structures (Computer science) Information theory Computer science - Mathematics Discrete mathematics Numerical analysis Theory of Computation Computer Imaging, Vision, Pattern Recognition and Graphics Data Structures and Information Theory Discrete Mathematics in Computer Science Symbolic and Algebraic Manipulation Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- VOABE: An Efficient Verifiable Outsourced Attribute-Based Encryption for Healthcare Systems. -- Topological network-control games played on graphs. -- FAIR: Accurate Data Acquisition for Mobile Crowdsensing. -- The Hybrid Diagnosability of Hypercube Under the

HMM\* (Hybrid MM\*) Model. -- Sponsored Search Auction Design Beyond Single Utility Maximization. -- An On-orbit Data Balancing Online Algorithm For LEO Satellite Cluster: A Repeated Stochastic Game Approach. -- Resource-limited Network Security Games with General Contagious Attacks. -- HR-tree: A Hybrid PMem-DRAM and Write-Optimized R-tree for Spatial Data Storage. -- A Distributed Computation Offloading Scheme Based on Stackelberg Game in MEC. -- Target Influence Maximization Against Overexposure under Threshold Dependent Model in Online Social Networks. -- A Partition-and-Merge Algorithm for Solving the Steiner Tree Problem in Large Graphs. -- Analyzing the Vulnerabilities of Targets in Clean-Label Data Poisoning Attack. -- An Approach to Tight I/O Lower Bounds for Algorithms with Composite Procedures. -- Hedonic Games for Federated Learning with Model Sharing Data. -- K-Division Framework Enhances GNNs' Expressive Power. -- An Innovative Irregular Nesting Algorithm for Flaw Avoidance. -- Efficient Partitioning Algorithms for Optimizing Big Graph Computation. -- Distributed generalized Deutsch-Jozsa algorithm. -- Average AoI Optimization at Wireless-Powered Network Edge with Stochastic Arrivals. -- Proactive Bi-objective Multi-Path Planning for Wireless Sensor Networks. -- TCFNet: Temporal-Correlated Feature Fused Network for Multivariate Time Series Classification. -- Strong chromatic index of graphs with small girth. -- A Space Efficient Algorithm for Multiset Multicover with Multiplicity Constraints Problem via Algebraic Method. -- Generative Flow Networks for Influence Maximization in Social Networks. -- Construction Algorithm of Vertex-Disjoint Paths in Circulant-Based Recursive Networks. -- Enumerating Floorplans with Any Set of Columns. -- Streaming algorithm for balance gain and cost with cardinality constraint on the integer lattice. -- Enhancing Crowding Event Detection on Campus with Multidimensional Logs: A Meta-Heuristic Search Approach. -- Construction of Binary Cooperative MSR Codes with Multiple Repair Degrees. -- Opportunistic Routing using Q-Learning with Context Information. -- A combinatorial view of Holant problems on higher domains. -- Labor: Adaptive Lazy Compaction for Learned Index in LSM-Tree. -- A Distributed Algorithm for Rumor Blocking on Social Networks. -- Convex-area-wise Linear Regression and Algorithms for Data Analysis. -- Approximating Continuous Multi-Agent Contracts with Lyapunov Function Methods. -- Privacy-preserving Byzantine-robust Federated learning via Multiparty Homomorphic Encryption. -- Perfect Indistinguishability Obfuscation for Boolean Polynomial Vector Spaces via Learning. -- IterLara: A Concise General-purpose Algebraic Model. -- The Voronoi Diagram of Weakly Smooth Planar Point Sets in  $O(\log n)$  Deterministic Rounds on the Congested Clique. -- Binary Jumbled Pattern Matching: Suffix tree indexing. -- GraphDhV: Graph Neural Network with Dual Hybrid View on Imbalanced Node Classification. -- Accelerating Topic-Sensitive PageRank by Exploiting the Query History. -- Extracting Representative Co-location Patterns Considering Distributions of Spatial Features and Instances. -- Parallel Truss Maintenance Algorithms for Dynamic Hypergraphs. -- Topological Vulnerability-based Imperceptible Node Injection Attack against Dynamic Graph Neural Network.

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## Sommario/riassunto

This three-volume set LNCS 15161, 15162 and 15163 constitutes the refereed proceedings of the 30th International Conference, COCOON 2024, held in Shanghai, China, during August 23–25, 2024. The 90 full papers and 6 short papers were carefully reviewed and selected from 277 submissions. COCOON 2024 provided an excellent venue for researchers working in the area of algorithms, theory of computation,

