

1. Record Nr.	UNINA9910552730403321
Titolo	WALCOM: Algorithms and Computation : 16th International Conference and Workshops, WALCOM 2022, Jember, Indonesia, March 24–26, 2022, Proceedings // edited by Petra Mutzel, Md. Saidur Rahman, Slamir
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-96731-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (428 pages)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 13174
Disciplina	005.1
Soggetti	Computer science - Mathematics Computer science—Mathematics Discrete mathematics Data structures (Computer science) Information theory Computer graphics Computer engineering Computer networks Theory of Computation Discrete Mathematics in Computer Science Data Structures and Information Theory Computer Graphics Computer Engineering and Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Some Problems Related to the Space of Optimal Tree Reconciliations -- From the W-hierarchy to XNLP: Classes of Fixed Parameter Intractability -- Invitation to Combinatorial Reconfiguration -- Combinatorial Reconfiguration -- Reconfiguration of Regular Induced Subgraphs -- Traversability, Reconfiguration, and Reachability in the Gadget Framework -- 1-Complex \$ s,t \$ Hamiltonian Paths:

Structure and Reconfiguration in Rectangular Grids -- Graph Drawing and Visualization -- Aspect Ratio Universal Rectangular Layouts -- Morphing tree drawings in a small 3D grid -- StreamTable: An Area Proportional Visualization for Tables with Flowing Streams -- Vertex-to-Point Conflict-Free Chromatic Guarding is NP-hard -- The Polygon Burning Problem -- Reverse Shortest Path Problem in Weighted Unit-Disk Graphs -- Computational Complexity -- Happy Set Problem on Subclasses of Co-comparability Graphs -- Finding Geometric Representations of Apex Graphs is NP-Hard -- The Complexity of  $L(p, q)$ -Edge-Labeling -- Trains, Games, and Complexity: 0/1/2-Player Motion Planning through Input/Output Gadgets -- Online and Property Testing -- An Optimal Tester for  $k$ -Linear -- Machine Learning Advised Ski Rental Problem with a Discount -- Parameterized Complexity -- On the Harmless Set Problem Parameterized by Treewidth -- Isomorphism Testing for  $T$ -graphs in FPT -- Parameterized algorithms for Steiner Tree and Dominating Set: bounding the leafage by the vertex leafage -- Parameterized complexity of reconfiguration of atoms -- Parameterized Complexity of Immunization in the Threshold Model -- Parameterized Complexity of Minimum Membership Dominating Set -- Graph Algorithms -- Finding popular branchings in vertex-weighted digraphs -- Vertex-Weighted Graphs: Realizable and Unrealizable Domains -- Hypergraph Representation via Axis-Aligned Point-Subspace Cover -- Structural Parameterizations of Budgeted Graph Coloring -- Counting and Sampling Orientations on Chordal Graphs -- Minimum  $t$ -spanners on subcubic graphs -- Approximation Algorithms -- Approximating the Bundled Crossing Number -- Path Cover Problems with Length Cost -- On approximating shortest paths in weighted triangular tessellations.

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#### Sommario/riassunto

This book constitutes the proceedings of the 16th International Conference on Algorithms and Computation, WALCOM 2022, which was held in Jember, Indonesia, during March 24-26, 2022. This proceedings volume contains 30 full papers which were carefully reviewed and selected from a total of 89 submissions and 3 invited papers. They cover diverse areas of algorithms and computation, such as approximation algorithms, computational complexity, computational geometry, graph algorithms, graph drawing and visualization, online algorithms, parameterized complexity and property testing.

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