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	Autore	Croiset, Jean <1656-1738>
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2.	Record Nr.	UNINA9910502982803321
	Autore	Valiente Gabriel <1963->
	Titolo	Algorithms on Trees and Graphs : With Python Code // by Gabriel Valiente
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	ISBN	3-030-81885-3
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	Descrizione fisica	1 online resource (392 pages)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction -- 2. Algorithmic Techniques -- 3. Tree Traversal -- 4. Tree Isomorphism -- 5. Graph Traversal -- 6. Clique, Independent Set, and Vertex Cover -- 7. Graph Isomorphism.
Sommario/riassunto	<p>Graph algorithms is a well-established subject in mathematics and computer science. Beyond classical application fields, like approximation, combinatorial optimization, graphics, and operations research, graph algorithms have recently attracted increased attention from computational biology, bioinformatics, and computational chemistry. This textbook introduces graph algorithms on an intuitive basis followed by a detailed exposition using structured pseudocode, with correctness proofs as well as worst-case analyses. Centered around the fundamental issue of graph isomorphism, the content goes beyond classical graph problems of shortest paths, spanning trees, flows in networks, and matchings in bipartite graphs. Advanced algorithmic results and techniques of practical relevance are presented in a coherent and consolidated way. Numerous illustrations, examples, problems, exercises, and a comprehensive bibliography support students and professionals in using the book as a text and source of reference. Furthermore, Python code for all algorithms presented is given in an appendix. Topics and features: Algorithms are first presented on an intuitive basis, followed by a detailed exposition using structured pseudocode Correctness proofs are given, together with a worst-case analysis of the algorithms Full implementation of all the algorithms in Python An extensive chapter is devoted to the algorithmic techniques used in the book Solutions to all the problems</p> <p>Gabriel Valiente, PhD, is an accredited Full Professor at the Department of Computer Science and a member of the Algorithms, Bioinformatics, Complexity and Formal Methods Research Group of the Technical University of Catalonia in Barcelona, Spain. He has been lecturing on Data Structures and Algorithms at the undergraduate level and Advanced Graph Algorithms at the graduate level over the last several years. His current research is centered on combinatorial algorithms on graphs and, in particular, algorithms for comparing trees and graphs, with emphasis on algorithms in computational biology and bioinformatics.</p>