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Titolo	Drawing Graphs [[electronic resource]] : Methods and Models / / edited by Michael Kaufmann, Dorothea Wagner
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
ISBN	3-540-44969-8
Edizione	[1st ed. 2001.]
Descrizione fisica	1 online resource (XIV, 318 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2025
Disciplina	511/.5
Soggetti	Discrete mathematics Algorithms Computer science—Mathematics Computer graphics Combinatorics Information technology Business—Data processing Discrete Mathematics Algorithm Analysis and Problem Complexity Mathematics of Computing Computer Graphics IT in Business
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Graph Drawing and Its Applications -- Drawing Planar Graphs -- Drawing Trees, Series-Parallel Digraphs, and Lattices -- Drawing on Physical Analogies -- Layered Drawings of Digraphs -- Orthogonal Graph Drawing -- 3D Graph Drawing -- Drawing Clusters and Hierarchies -- Dynamic Graph Drawing -- Map Labeling with Application to Graph Drawing -- Software Packages.
Sommario/riassunto	Graph drawing comprises all aspects of visualizing structural relations between objects. The range of topics dealt with extends from graph theory, graph algorithms, geometry, and topology to visual languages, visual perception, and information visualization, and to computer-

human interaction and graphics design. This monograph gives a systematic overview of graph drawing and introduces the reader gently to the state of the art in the area. The presentation concentrates on algorithmic aspects, with an emphasis on interesting visualization problems with elegant solutions. Much attention is paid to a uniform style of writing and presentation, consistent terminology, and complementary coverage of the relevant issues throughout the 10 chapters. This tutorial is ideally suited as an introduction for newcomers to graph drawing. Ambitioned practitioners and researchers active in the area will find it a valuable source of reference and information.