1. Record Nr. UNINA9910633980203321

Titolo	Prunus : Recent Advances / / edited by Ayzin Kuden and Ali Kuden
Pubbl/distr/stampa	London, United Kingdom : , : IntechOpen, , 2022
ISBN	1-83969-582-X
Descrizione fisica	1 online resource (214 pages) : illustrations
Disciplina	581
Soggetti	Botany - Study and teaching Plants
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Genetic Diversity in Almond (Prunus dulcis) -- 2. Varietal Wealth of Prunus Species -- 3. Expansion in Cultivating Almond Trees in Egypt -- 4. Advances in Breeding of Peach, Plum and Apricot -- 5. Gene Editing in Prunus Spp.: The Challenge of Adapting Regular Gene Transfer Procedures for Precision Breeding -- 6. Stock Influence on Growth, Morphological and Biochemical Leaf Parameters Prunus domestica L. -- 7. Recent Techniques and Developments on Cherry Growing in Turkey -- 8. Logistics Chain and Cost Assessment of Pruning-to-Energy Value Chains: Application of Life Cycle Cost Analysis Approach -- 9. Nutritional and Antioxidant Values of the Black Plum (Vitex doniana) -- 10. Behavior of Prunus persica as Green and Friendly Corrosion Inhibitor for Corrosion Protection.
Sommario/riassunto	Prunus is one of the most important genera of fruit. It includes peaches, plums, cherries, apricots, and other stone fruits. This book discusses breeding, germplasm, fruit tree physiology, pruning, production, and nutritional studies of the Prunus species. It includes two sections on "Molecular and Breeding Studies and Germplasm Diversity in Prunus Species" and "Physiological and Nutritional Studies on Prunus Species."

2. Record Nr. UNINA9910437871803321

Autore	Du Ding-Zhu
Titolo	Connected Dominating Set: Theory and Applications / / by Ding-Zhu Du, Peng-Jun Wan
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2013
ISBN	1-4614-5242-2
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (205 p.)
Collana	Springer Optimization and Its Applications, , 1931-6828 ; ; 77
Disciplina	511.5
Soggetti	Operations research Management science Algorithms Combinatorics Computer communication systems Mathematical optimization Operations Research, Management Science Algorithm Analysis and Problem Complexity Computer Communication Networks Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (pages [193]-199) and index.
Nota di contenuto	Connected Dominating Set:Theory and Applications; Preface; Contents; Chapter1 Introduction; 1.1 Connected Domination Number; 1.2 Virtual Backbone in Wireless Networks; 1.3 Converter Placement in Optical Networks; 1.4 Connected Domatic Number; 1.5 Lifetime of Sensor Networks; 1.6 Theory and Applications; Chapter2 CDS in General Graph; 2.1 Motivation and Overview; 2.2 Complexity of Approximation; 2.3 Two-Stage Greedy Approximation; 2.4 Weakly CDS; 2.5 One-Stage Greedy Approximation; 2.6 Weighted CDS; 2.7 Directed CDS; Chapter3 CDS in Unit Disk Graph; 3.1 Motivation and Overview 3.2 NP-Hardness and PTAS3.3 Two-Stage Algorithm; 3.4 Independent Number (I); 3.5 Independent Number (II); 3.6 Zassenhaus-Groemer-Oler Inequality; Chapter 4 CDS in Unit Ball Graphs and Growth Bounded Graphs; 4.1 Motivation and Overview; 4.2 Gregory-Newton Problem; 4.3 Independent Points in Two Balls; 4.4 Growth-Bounded Graphs; 4.5

PTAS in Growth-Bounded Graphs; Chapter5 Weighted CDS in Unit Disk Graph; 5.1 Motivation and Overview; 5.2 Node-Weighted Steiner Tree; 5.3 Double Partition; 5.4 Cell Decomposition; 5.5 6-Approximation; 5.6 4-Approximation; 5.7 3.63-Approximation; Chapter6 Coverage 9.4 A Two-Staged Algorithm for Min-CDSChapter10 Geometric Hitting Set and Disk Cover; 10.1 Motivation and Overview; 10.2 Minimum Geometric Hitting Set; 10.3 Minimum Disk Cover; Chapter11 Minimum-Latency Scheduling; 11.1 Motivation and Overview; 11.2 Geometric Preliminaries; 11.3 Dominating Tree; 11.4 Broadcast Scheduling; 11.5 Aggregation Scheduling; 11.6 Gathering Scheduling; 11.7 Gossiping Scheduling; Chapter12 CDS in Planar Graphs; 12.1 Motivation and Overview; 12.2 Preliminaries; 12.3 Algorithm Description; 12.4 Performance Analysis; References; Index

Sommario/riassunto

The connected dominating set (CDS) has been a classic subject studied in graph theory since 1975. It has been discovered in recent years that CDS has important applications in communication networks — especially in wireless networks —as a virtual backbone. Motivated from those applications, many papers have been published in the literature during last 15 years. Now, the connected dominating set has become a hot research topic in computer science. This work is a valuable reference for researchers in computer science and operations research, especially in areas of theoretical computer science, computer communication networks, combinatorial optimization, industrial engineering, and discrete mathematics. The book may also be used as a text in a graduate seminar for PhD students. Readers should have a basic knowledge of computational complexity and combinatorial optimization. In this book, the authors present the state-of-the-art in the study of connected dominating sets. Each chapter is devoted to one problem, and consists of three parts: motivation and overview, problem complexity analysis, and approximation algorithm designs. The text is designed to give the reader a clear understanding of the background, formulation, existing important research results, and open problems. Topics include minimum CDS, routing-cost constrained CDS, weighted CDS, directed CDS, SCDS (strongly connected dominating set), WCDS (weakly connected dominating set), CDS-partition, virtual backbone in wireless networks, convertor placement in optical networks, coverage in wireless sensor networks, and more.