1.
Record Nr.	UNINA9910781577303321
Autore	Gan Guojun <1979, >
Titolo	Data clustering in C++ : an object-oriented approach / / Guojun Gan
Pubbl/distr/stampa	Boca Raton, Fla. : , : Chapman and Hall/CRC, , 2011
ISBN	0-429-10978-4
	1-4398-6224-9
Edizione	[1st edition]
Descrizione fisica	1 online resource (512 p.)
Collana	Chapman & Hall/CRC data mining and knowledge discovery series
Disciplina	519.5/3
Soggetti	Cluster analysis - Data processing
	C++ (Computer program language)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	A Chapman & Hall book.
Nota di bibliografia	Includes bibliographical references (p. 469-486) and indexes.
Nota di contenuto	Front Cover; Dedication; Contents; List of Figures; List of Tables; Preface; I. Data Clustering and C++ Preliminaries; 1. Introduction to Data Clustering; 2. The Unified Modeling Language; 3. Object-Oriented Programming and C++; 4. DesignPatterns; 5. C++ Libraries and Tools; II. A C++ Data Clustering Framework; 6. The Clustering Library; 7. Datasets; 8. Clusters; 9. Dissimilarity Measures; 10. Clustering Algorithms; 11. Utility Classes; III. Data Clustering Algorithms; 12. Agglomerative Hierarchical Algorithms; 13. DIANA; 14. The k-means Algorithm; 15. The c-means Algorithm 16. The k-prototypes Algorithm17. The Genetic k-modes Algorithm; 18. The FSC Algorithm; 19. The Gaussian Mixture Algorithm; 20. A Parallel k-means Algorithm; A. Exercises and Projects; B. Listings; C. Software; Bibliography
Sommario/riassunto	Data clustering is a highly interdisciplinary field, the goal of which is to divide a set of objects into homogeneous groups such that objects in the same group are similar and objects in different groups are quite distinct. Thousands of theoretical papers and a number of books on data clustering have been published over the past 50 years. However, few books exist to teach people how to implement data clustering algorithms. This book was written for anyone who wants to implement or improve their data clustering algorithms. Using object-oriented design and programming techniques, Data Clusterin