1.	Record Nr.	UNINA9910827748303321
	Autore	Damiand Guillaume
	Titolo	Combinatorial maps : efficient data structures for computer graphics and image processing / / Guillaume Damiand, Pascal Lienhardt
	Pubbl/distr/stampa	Boca Raton : , : A.K. Peters/CRC Press, , [2015] ©2015
	ISBN	0-429-17037-8 1-4822-0653-6
	Edizione	[1st edition]
	Descrizione fisica	1 online resource (402 p.)
	Classificazione	COM012000TEC015000
	Disciplina	005.7/3 005.73
	Soggetti	Data structures (Compter science) Image processing - Mathematics Computer graphics - Mathematics Combinatorial designs and configurations
	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.
	Nota di contenuto	Front Cover; Contents; Acknowledgements; List of Algorithms; List of Figures; 1. Introduction; 2. Preliminary Notions; 3. Intuitive Presentation; 4. n-Gmaps; 5. n-maps; 6. Operations; 7. Embedding for Geometric Modeling and Image Processing; 8. Cellular Structures as Structured Simplicial Structures; 9. Comparison with Other Cellular Data Structures; 10. Concluding Remarks; Bibliography
	Sommario/riassunto	Although they are less widely known than other models, combinatorial maps are very powerful data structures and can be useful in many applications, including computer graphics and image processing. The book introduces these data structures, describes algorithms and data structures associated with them, makes connections to other common structures, and demonstrates how to use these structures in geometric modeling and image processing. The data structures and algorithms introduced in the book will be available in a C++ library on the authors' website--