1.	Record Nr.	UNINA9910828373103321
	Titolo	Combinatorics of genome rearrangements / / Guillaume Fertin ... [et al.]
	Pubbl/distr/stampa	Cambridge, Mass., : MIT Press, c2009
	ISBN	0-262-25818-8 0-262-25875-7
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (305 p.)
	Collana	Computational molecular biology
	Altri autori (Persone)	FertinGuillaume <1972->
	Disciplina	572.8/77
	Soggetti	Translocation (Genetics) - Mathematical models Translocation (Genetics) - Data processing Combinatorial analysis Genomics - Mathematics
	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 (p. [263]-282) and index.
	Nota di contenuto	Genomes as permutations -- Distances between unsigned permutations -- Distances between signed permutations -- Rearrangements of partial orders -- Graph-theoretic and linear algebra formulations -- Generalities -- Distances between arbitrary strings -- Distances between balanced strings -- Paths and cycles -- Cycles of a permutation -- Set systems and the syntenic distance -- Median and halving problems -- Rearrangement phylogenies -- Software -- Open problems.
	Sommario/riassunto	A comprehensive survey of a rapidly expanding field of combinatorial optimization, mathematically orientated but offering biological explanations when required, this volume offers the first comprehensive survey of a rapidly expanding application of combinatorial optimization.