

1. Record Nr.	UNINA9910784309003321
Autore	Van Rijsbergen C. J. <1943->
Titolo	The geometry of information retrieval // C.J. Van Rijsbergen [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2004
ISBN	1-107-15054-X 1-280-54078-8 9786610540785 0-511-21496-0 0-511-21675-0 0-511-21138-4 0-511-31548-1 0-511-54333-6 0-511-21315-8
Descrizione fisica	1 online resource (xii, 150 pages) : digital, PDF file(s)
Disciplina	025.04
Soggetti	Computer science - Mathematics Information storage and retrieval systems - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 120-144) and indexes.
Nota di contenuto	; 1. Introduction -- ; 2. On sets and kinds for IR -- ; 3. Vector and Hilbert spaces -- ; 4. Linear transformations, operators and matrices -- ; 5. Conditional logic in IR -- ; 6. geometry of IR.
Sommario/riassunto	Information retrieval, IR, the science of extracting information from any potential source, can be viewed in a number of ways: logical, probabilistic and vector space models are some of the most important. In this book, the author, one of the leading researchers in the area, shows how these views can be reformed in the same framework used to formulate the general principles of quantum mechanics. All the usual quantum-mechanical notions have their IR-theoretic analogues, and the standard results can be applied to address problems in IR, such as pseudo-relevance feedback, relevance feedback and ostensive retrieval. The relation with quantum computing is also examined. To keep the

book self-contained appendices with background material on physics and mathematics are included. Each chapter ends with bibliographic remarks that point to further reading. This is an important, ground-breaking book, with much new material, for all those working in IR, AI and natural language processing.

---