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| Soggetti | Data structures (Computer science) Geographical information systems Computers Database management Information storage and retrieval Data Structures and Information Theory Geographical Information Systems/Cartography Theory of Computation Database Management Information Storage and Retrieval Data Structures |
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| Nota di contenuto | Related work and GEOQL -- The spatial kd-tree -- Performance analysis and case studies -- Query optimization -- Implementation and experiments -- Conclusions. |
| Sommario/riassunto | This monograph describes methods for extending relational database systems for geographic applications. The ways in which a relational database system is supplemented with unconventional spatial indexing structures, additional spatial subsystems and query processors are described in great detail. The work presents an extensive survey of existing spatial indexing techniques and a taxonomy of the extensions to the multidimensional indexing structures. An extensive experimental analysis of spatial indexes is presented. The work covers the following |

areas: - the design of geographic information systems (GIS) - extended query languages for GIS - spatial indexing mechanisms - query processing strategies. The author presents his own skd-trees and extended query optimization strategies. The survey of spatial indexing structures for non-zero sized objects provides a framework for workers in the field of spatial information systems to evaluate spatial access methods. The consideration of query optimization will assist understanding of the role of that topic in GIS.
