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Soggetti	Data structures (Computer science) Health administration Application software Database management Artificial intelligence Information technology Business—Data processing Data Structures and Information Theory Health Administration Information Systems Applications (incl. Internet) Database Management Artificial Intelligence IT in Business
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Nota di contenuto	Research topics in statistical and scientific database management : The IV SSDBM -- Statistical data management requirements and the SQL standards—an evolving comparison -- The representation of a temporal data model in the relational environment -- Knowledge based support for the management of statistical databases -- A study of modified interpolation search in compressed, fully transposed, ordered files -- Design of statistical information media: Time performances and

storage constraints -- Handling time in query languages -- Software and hardware enhancement of arithmetic coding -- Orthogonal range retrieval using bucket address hashing -- Automatic drawing of statistical diagrams -- The classification problem with semantically heterogeneous data -- Database issues for a veterinary medical expert system -- Ranges and trackers in statistical databases -- A data model, knowledge base, and natural language processing for sharing a large statistical database -- Precision-time tradeoffs: A paradigm for processing statistical queries on databases -- Interpretation of statistical queries to relational databases -- GQL, a graphical query language for semantic databases -- A conceptual model for the representation of statistical data in geographical information systems -- Spatial data base queries: Relational algebra versus computational geometry -- Design of the user-interface for an Object-Oriented statistical data-base -- Knowledge browsing — front ends to statistical databases -- Statistical relational model -- A model of summary data and its applications in statistical databases -- Database management systems for statistical and scientific applications: Are commercially available DBMS good enough? -- Geographical database systems and statistical information -- The analysis of geographical data.

Sommario/riassunto

The Fourth International Working Conference on Statistical and Scientific Data Base Management (IV SSDBM) held on June 21-23, 1988 in Rome, Italy, continued the series of conferences initiated in California in December 1981. The purpose of this conference was to bring together database researchers, users and system builders, working in this specific field, to discuss the particular points of interest, to propose new solutions to the problems of the domain and to expand the topics of the previous conferences, both from the theoretical and from the applicational point of view. The papers of four scientific sessions dealt with the following topics: knowledge base and expert system, data model, natural language processing, query language, time performance, user interface, heterogeneous data classification, storage constraints, automatic drawing, ranges and trackers, and arithmetic coding. Two other special sessions presented work on progress papers on geographical data modelling, spatial database queries, user interface in an Object Oriented SDB, interpretation of queries, graphical query language and knowledge browsing front ends. The conference also had three invited papers on topics of particular interest such as "Temporal Data", "Statistical Data Management Requirements" and "Knowledge Based Decision Support Systems", included in this volume. The introductory paper by M. Rafanelli provides both an introduction to the general concepts helpful to people outside the field and a survey of all the papers in these Proceedings. Furthermore, there were three open panels. Papers by the chairmen, contributions of the panelists and a summary of the respective discussions are included in this volume, too.
