Record Nr.	UNISA996465641903316
Titolo	Nested Relations and Complex Objects in Databases [[electronic resource] /] / edited by Serge Abiteboul, Patrick C. Fischer, Hans-Jörg Schek
Pubbl/distr/stampa	Berlin, Heidelberg:,: Springer Berlin Heidelberg:,: Imprint: Springer,, 1989
ISBN	3-540-46175-2
Edizione	[1st ed. 1989.]
Descrizione fisica	1 online resource (VIII, 328 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 361
Disciplina	005.74
Soggetti	Database management
	Information storage and retrieval
	Database Management Information Storage and Retrieval
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	The advanced information management prototype Verso: A database machine based on nested relations The two roles of nested relations in the DASDBS project A storage structure for Nested Relational Databases Four views of complex objects: A sophisticate's introduction An introduction to the completeness of languages for complex objects and nested relations On the uniqueness of nested relations An introduction to the Nested Sequences of Tuples data model and algebra Recursively defined complex objects Query languages for Nested Relational Databases Nested relations and recursive queries Realization of nested relation interfaces for relational and network databases An approach to manage large inheritance networks within a DBS supporting nested relations On the normalization in Nested Relational Databases Complex objects modeling: An entity-relationship approach A data model for complex objects based on a semantic database model and nested relations ?-Acyclic database schemes and nested relations.
Sommario/riassunto	This volume was primarily intended to present selected papers from the workshop on Theory and Applications of Nested Relations and Complex Objects, held in Darmstadt, FRG, from April 6-8, 1987. Other papers

were solicited in order to provide a picture of the field as general as possible. Research on nested relations and complex objects originates in the late seventies. The motivation was to obtain data models and systems which would provide support for so-called complex objects or molecular structures, i.e., for hierarchically organized data, thereby overcoming severe shortcomings of the relational model. This theme of research is now maturing. Systems based on those ideas are beginning to be available. Languages of various natures (algebras, calculi, graphical, logic-oriented) have been designed and a theory is slowly emerging. Finally, new developments in database technology and research are incorporating features of models involving complex objects. A variety of approaches is represented in this volume. The first three papers give overviews of major pioneering implementation efforts. The fourth paper is devoted to the important issue of implementation of storage structures. The next three papers propose excursions in the foundations of nested relations and complex objects. The following six contributions are all devoted to modeling of complex objects. The area of database design is represented by the last four papers.