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Titolo	LOGIDATA+: Deductive Databases with Complex Objects [[electronic resource] /] / edited by Paolo Atzeni
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Soggetti	Data structures (Computer science) Database management Data Structures and Information Theory Database Management
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Nota di contenuto	LOGIDATA+: Overview -- Bridging objects with logical rules: towards object oriented deductive databases -- The LOGIDATA+ model -- The LOGIDATA+ language and semantics -- Travel agency: A LOGIDATA+ application -- Management of extended update operations -- Taxonomic reasoning in LOGIDATA+ -- Introducing taxonomic reasoning in LOGIDATA+ -- Taxonomic reasoning with cycles in LOGIDATA+ -- Modeling semantic integrity constraints in object-oriented database schemas -- Evaluation of negative logic programs -- Effective implementation of negation in database logic query languages -- Modules in logic programming: A framework for knowledge management -- LOA: the LOGIDATA+ Object sAlgebra -- The LOGIDATA+ prototype system -- MOOD An architecture for object oriented access to a relational data base -- Prototypes in the LOGIDATA+ Project.
Sommario/riassunto	This book presents a collection of coordinated scientific papers describing the work conducted and the results achieved within the LOGIDATA+ project, a research action funded by the Italian national research council CNR. Theaim of the LOGIDATA+ project is the definition of advanced database systems which significantly extend the functionalities of the current systems, with specific reference to the

application areas for which relational systems are not considered satisfactory. These new systems will allow the definition of data with complex structures, the representation of semantic relationships between objects, and the use of powerful query and update languages. They will be based on a combination of techniques originating from relational databases and logic programming, with contributions from object-oriented programming. The goal of the LOGIDATA+ project is the design, definition, and prototype implementation of a database management system with complex structures and a class hierarchy, to be accessed through a rule-based language. This book presents an integrated view of the project at the end of the first phase. The second phase will be mainly concerned with the implementation of prototypes.
