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   Titolo   Deductive and Object-Oriented Databases [[electronic resource]] :
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                        Michael Kifer, Yoshifumi Masunaga

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   Collana   Lecture Notes in Computer Science, , 0302-9743 ; ; 566

   Disciplina   005.75

   Soggetti   Database management
                        Computer programming
                        Artificial intelligence
                        Mathematical logic
                        Database Management
                        Programming Techniques
                        Artificial Intelligence
                        Mathematical Logic and Formal Languages

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Note generali   Bibliographic Level Mode of Issuance: Monograph

   Nota di contenuto   Optimization of nonrecursive queries in OODBs -- Optimisation of
                        methods in a navigational query language -- Execution plan generation
                        for an object-oriented data model -- Efficient access methods in
                        deductive and object-oriented databases -- Semantics of disjunctive
                        logic programs and deductive databases -- G-Log: A declarative
                        graphical query language -- Non-determinism in deductive databases
                        -- Declarative specification and evaluation of database updates --
                        Schema updates and consistency -- Updatable views in object-oriented
                        databases -- Syntactic characterizations of 1-bounded Datalog
                        programs -- Evaluation and optimization of complex object selections
                        -- On testing effective computability of magic programs -- A
                        comparison between deductive and object-oriented database systems
                        -- Updating deductive databases with functional dependencies --

Constraints in an object-oriented deductive database -- Path constraints for graph-based data models: Towards a unified theory of typing constraints, equations, and functional dependencies -- Providing dynamic type abstractions and specifications for persistent information -- Multidimensional versioning for object-oriented databases -- On canonical and non-canonical classifications -- DOT: A term representation using DOT algebra for knowledge-bases -- Semantics of inheritance In logical object specifications -- A formalization of objects using equational dynamic logic -- A vision of persistent systems -- From relational to object-oriented integrity simplification -- On the efficient computation of the difference between consecutive database states -- Set-oriented propagation of updates into transitively closed relations -- Querying design and planning databases -- A generalized information resource query language and basic query evaluation technique -- An extensible functional query language for an Object Oriented Database System.

Sommario/riassunto	This volume is the proceedings of the Second International Conference on Deductive and Object-Oriented Databases (DOOD). During the last decade, deductive and object-oriented systems have received a great deal of attention, but for the most part these two fields were evolving independently of each other. Today there is a large body of work suggesting that the deductive and object-oriented paradigms complement each other. The object-oriented paradigm is characterized by its view of the data, whereby information is grouped around objects with complex internal structure accessed via methods. The declarative paradigm is centered around the idea that data manipulation must be done through a declarative, logic-based language. It is hoped that these two aspects, brought together in one system, will provide an integrated framework fora new database technology. The DOOD conference brings together researchers and developers in the fields of deductive and object-oriented databases to stimulate technical discussion and accelerate the integration of the two technologies. This volume contains 28 contributed papers (selected from 98 submissions) and two invited papers by world-renowned researchers.

2.

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Autore	NERLICH, Brigitte
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Formato	Materiale a stampa
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