

1. Record Nr.	UNISA996465775803316
Titolo	Deductive and Object-Oriented Databases [[electronic resource]] : Third International Conference, DOOD '93, Phoenix, Arizona, USA, December 6-8, 1993. Proceedings // edited by Stefano Ceri, Katsumi Tanaka, Shalom Tsur
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1993
ISBN	3-540-48212-1
Edizione	[1st ed. 1993.]
Descrizione fisica	1 online resource (XII, 496 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 760
Disciplina	005.75
Soggetti	Computer programming Database management Artificial intelligence Mathematical logic Programming Techniques Database Management 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	Treating programs as objects: The computational proxy experience -- Foundations of aggregation in deductive databases -- The differential fixpoint operator with subsumption -- Datalog with non-deterministic choice computes NDB-PTIME -- A deductive and object-oriented approach to a complex scheduling problem -- On the logical foundations of schema integration and evolution in heterogeneous database systems -- Explaining program execution in deductive systems -- A logic for rule-based query optimization in graph-based data models -- Specifying rule-based query optimizers in a reflective framework -- Semantic query optimization in deductive object-oriented databases -- Research in deductive and object-oriented databases -- An implementation overview of the Aditi deductive database system -- Negation and aggregates in recursive rules: the

LDL++ approach -- IsaLog-: A deductive language with negation for complex-object databases with hierarchies -- On efficient reasoning with implication constraints -- Bottom-up query evaluation with partially ordered defaults -- An extension of path expressions to simplify navigation in object-oriented queries -- Query classes -- Database updating revisited -- Super-key classes for updating materialized derived classes in object bases -- Applications of deductive and object-oriented databases -- Beyond data dictionaries: Towards a reflective architecture of intelligent database systems -- A deductive and typed object-oriented language -- Noodle: A language for declarative querying in an object-oriented database -- Tracking causal dependencies in an active object-oriented database -- Automatic class and method generation for object-oriented databases -- Modeling multilevel entities using single level objects -- A model using classes as a basic organization tool -- Knowledge base revision using circumscription -- Versioning of objects in deductive databases -- A model for sets and multiple inheritance in deductive object-oriented systems.

Sommario/riassunto

This volume contains the proceedings of the Third International Conference on Deductive and Object-Oriented Databases. Its central tenet is that the object-oriented and deductive paradigms for modeling, organizing, and processing data complement each other, rather than competing, and that problems involving massive volumes of complex data can best be solved by integrating the best of both approaches. Central questions in the area are: - How do we design a tool that presents the best of the object-oriented and declarative ideas? - How can the users of this tool express their problems in a combination of declarative and procedural features? The volume includes 29 papers that contribute towards answering these questions.
