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Brings together key developments in OO databases from areas such as semantic modelling, formal data models, language design issues, object algebra and rule-based query languages. Shows how these elements may interact within an object-oriented database system.

Object-oriented database systems have been approached with mainly two major intentions in mind, namely to better support new application areas including CAD/CAM, office automation, knowledge engineering, and to overcome the 'impedance mismatch' between data models and programming languages. This volume gives a comprehensive overview

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of developments in this flourishing area of current database research. Data model and language aspects, interface and database design issues, architectural and implementation questions are covered. Although based on a series of workshops, the contents of this book has been carefully edited to reflect the current state of international research in object oriented database design and implementation.

Information systems development is not merely a technical intervention but involves social and ethical dilemmas that affect the human, social and organizational domains. To demonstrate this point, the authors conduct a thorough and substantive description and analysis of the conceptual and philosophical underpinnings of systems development. In particular they analyse a number of systems development methodologies

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including structured methods, prototyping, ETHICS and Soft Systems Methodology to reveal the underlying conceptual and philosophical foundations. The book provides an in-depth analysis of data modelling theory and its links with theories of language and cognition. It offers a framework to describe and analyse different systems development approaches and to explain their strengths and weaknesses. The book is aimed at graduate students taking courses in information systems and data modelling, but will also appeal to information systems managers and professionals for whom the summary of methodologies will be useful.

Building a Star Schema

Object-oriented Modeling and Design for Database Applications

Deductive and Object-Oriented Databases

ECOOP '92. European Conference on Object-Oriented Programming

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Why isn't there an object-oriented data model?

On Object-Oriented Database Systems
Concepts, Design and Applications

The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application. It progresses gradually from basic to advance concepts in database management systems, with numerous solved exercises to make learning easier and interesting. New to this edition are discussions on more commercial database management systems.

Solve all big data problems by learning how to create efficient data models
Key Features
Create effective models that get the most

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out of big data Apply your knowledge to datasets from Twitter and weather data to learn big data Tackle different data modeling challenges with expert techniques presented in this book Book Description Modeling and managing data is a central focus of all big data projects. In fact, a database is considered to be effective only if you have a logical and sophisticated data model. This book will help you develop practical skills in modeling your own big data projects and improve the performance of analytical queries for your specific business requirements. To start with, you'll get a quick introduction to big data and understand the different

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data modeling and data management platforms for big data. Then you'll work with structured and semi-structured data with the help of real-life examples. Once you've got to grips with the basics, you'll use the SQL Developer Data Modeler to create your own data models containing different file types such as CSV, XML, and JSON. You'll also learn to create graph data models and explore data modeling with streaming data using real-world datasets. By the end of this book, you'll be able to design and develop efficient data models for varying data sizes easily and efficiently. What you will learn Get insights into big data and discover various data

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models Explore conceptual, logical, and big data models Understand how to model data containing different file types Run through data modeling with examples of Twitter, Bitcoin, IMDB and weather data modeling Create data models such as Graph Data and Vector Space Model structured and unstructured data using Python and R Who this book is for This book is great for programmers, geologists, biologists, and every professional who deals with spatial data. If you want to learn how to handle GIS, GPS, and remote sensing data, then this book is for you. Basic knowledge of R and QGIS would be helpful. Geographic data models are digital

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frameworks that describe the location and characteristics of things in the world around us. With a geographic information system, we can use these models as lenses to see, interpret, and analyze the infinite complexity of our natural and man-made environments. With the geodatabase, a new geographic data model introduced with ArcInfo 8, you can extend significantly the level of detail and range of accuracy with which you can model geographic reality in a database environment.

Managing Change in Object
Oriented Data Models
Information Systems Development
and Data Modeling

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Security for Object-Oriented Systems

An Investigation Into the Use of
Object-oriented Data Models for
Database Modelling,
Implementation and Access
Fifth International Conference, V
SSDBM, Charlotte, N.C., USA,
April 3-5, 1990, Proceedings
Object-oriented Data Modeling
Object-oriented Database Design
Clearly Explained

Written from a software
engineering perspective, this
book shows programmers &
developers how to build object-
oriented database applications
for distributed & client/server
environments using the newest

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update of the OMT methodology
& UML.

Object-oriented Data Modeling
and MoreAn Object Oriented
Data ModelA Conceptual
Approach to Object-oriented
Data Modeling

Object-oriented database
management systems are
growing in popularity, thanks to
changing corporate needs and
the emergence of several viable
products. However, while most
database professionals have had
at least some exposure to the
basic concepts of object-oriented
programming, information
relating specifically to object-
oriented databases has

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remained hard to come by. Object-Oriented Database Design Clearly Explained remedies this, providing developers and administrators with a ground-up understanding of the logical design of object-oriented databases. Focusing on the principles of the object paradigm while noting the particularities of specific products, this book will give readers the know-how required to produce effective designs in any environment. Key Features *

Equips the reader with a sound understanding of the object paradigm and all key concepts, illustrating its points with three in-

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depth case * Presents product-
and platform-neutral guidelines
and advice, teaching readers the
underlying object-oriented design
principles they will need to apply
regardless of the specific
technology adopted * Details
today's OODBMS standards and
the variety of approaches taken
by current products * Serves as
a companion volume to
Relational Database Design
Clearly Explained, providing
parallel examples that help to
clarify relational and object-
oriented data models
13th European Conference
Lisbon, Portugal, June 14-18,
1999 Proceedings

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Statistical and Scientific
Database Management
Advances in Fuzzy Object-
oriented Databases
OOER '95 Object-Oriented and
Entity-Relationship Modeling
An Object-oriented Data Model
for Managing Computer-aided
Design and Computer-aided
Manufacturing Data Bases
Object-oriented Data Warehouse
Design

Art

**This volume contains
papers from the OOPSLA-93
Conference Workshop on
Security for Object-
Oriented Systems, held in
Washington DC, USA, on 26**

September 1993. The workshop addressed the issue of how to introduce an acceptable level of security into object-oriented systems, as the use of such systems becomes increasingly widespread. The topic is approached from two different, but complementary, viewpoints: the incorporation of security into object-oriented systems, and the use of object-oriented design and modelling techniques for designing secure applications. The papers cover a variety of

issues, relating to both mandatory and discretionary security, including security facilities of PCTE, information flow control, the design of multilevel secure data models, and secure database interoperation via role translation. The resulting volume provides a comprehensive overview of current work in this important area of research.

This volume constitutes the proceedings of the sixth European Conference on Object-Oriented

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Programming (EC00P), held in Utrecht, The Netherlands, June 29 - July 3, 1992. Since the "French initiative" to organize the first conference in Paris, EC00P has been a very successful forum for discussing the state of the art of object orientation. EC00P has been able to attract papers of a high scientific quality as well as high quality experience papers describing the pros and cons of using object orientation in practice. This duality between theory and practice within

object orientation makes a good example of experimental computer science. The volume contains 24 papers, including two invited papers and 22 papers selected by the programme committee from 124 submissions. Each submitted paper was reviewed by 3-4 people, and the selection of papers was based only on the quality of the papers themselves. Collecting the latest results from leading researchers in the field, this volume provides a

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single source on major
aspects of fuzzy object-
oriented database
modeling--conceptual,
logical, and physical--as
well as details of
implementations and
applications.

Object-oriented Data
Modeling and More

The ESRI Guide to
Geodatabase Design

Object-oriented Oracle

An Object-oriented Data
Model for Media

Independent Information
Modeling Our World

Fundamentals of Object
Databases

Database Design for

Download Free Object Oriented Data Modeling For Data Warehousing An **Smarties**

This book constitutes the refereed proceedings of the 4th International Conference on Deductive and Object-Oriented Databases, DOOD '95, held in Singapore in December 1995. Besides two keynote papers by Stefano Ceri and Michael Kifer, the book contains revised full versions of 28 papers selected from a total of 88 submissions. The volume gives a highly competent state-of-the-art report on DOOD research and advanced applications. The papers are organized in sections on active databases, query processing, semantic query optimization, transaction management,

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authorization, implementation,
and applications.

This book explains how to model a problem domain by abstracting objects, attributes, and relationships from observations of the real world. It provides a wealth of examples, guidelines, and suggestions based on the authors' extensive experience in both real time and commercial software development. This book describes the first of three steps in the method of Object-Oriented Analysis. Subsequent steps are described in Object Lifecycles by the same authors.

Object-oriented database management systems (OODBMSs) have generated significant

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excitement in the database community in the last decade. This interest stems from a real need for data management support for what are called "advanced application areas" that are not well-served by relational technology. The case for object-oriented technology has been made on three fronts. First is the data modeling requirements of the new applications. Some of the more important shortcomings of the relational systems in meeting the requirements of these applications include: 1. Relational systems deal with a single object type: a relation. A relation is used to model different real-world objects, but the semantics of this

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association is not part of the database. Furthermore, the attributes of a relation may come only from simple and fixed data type domains (numeric, character, and, sometimes, date types). Advanced applications require explicit storage and manipulation of more abstract types (e.g., images, design documents) and the ability for the users to define their own application-specific types. Therefore, a rich type system supporting user defined abstract types is required. 2. The relational model structures data in a relatively simple and flat manner. Non traditional applications require more complex object structures with

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nested objects (e.g., a vehicle object containing an engine object).

Proceedings of the OOPSLA-93
Conference Workshop on Security
for Object-Oriented Systems,
Washington DC, USA, 26
September 1993

Modeling the World in Data
ECOOP '99 - Object-Oriented
Programming

An Object-oriented Data Model for
Database Management Systems

An Object-oriented Data Model for
Database Modelling,

Implementation and Access

Effective database design

techniques for data architects and
business intelligence professionals

Object-oriented Systems Analysis

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As the information contained in databases has become a critical resource in organizations, efficient access to that information and the ability to share it among different users and across different systems has become an urgent need. The interoperability of heterogeneous database systems-literally, the ability to access information between or among differing types of databases, is the topic of this timely book. In the last two decades, tremendous improvements in tools and technologies have resulted in new products that provide distributed data processing

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capabilities. This book describes these tools and emerging technologies, explaining the essential concepts behind the topics but focusing on practical applications. Selected products are discussed to illustrate the characteristics of the different technologies. This is an ideal source for anyone who needs a broad perspective on heterogeneous database integration and related technologies.

This text applies object-oriented techniques to the entire software development cycle.

Object-oriented databases were originally developed as an

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alternative to relational database technology for the representation, storage, and access of non-traditional data forms that were increasingly found in advanced applications of database technology. After much debate regarding object-oriented versus relational database technology, object-oriented extensions were eventually incorporated into relational technology to create object-relational databases. Both object-oriented databases and object-relational databases, collectively known as object databases, provide inherent support for object features, such

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as object identity, classes, inheritance hierarchies, and associations between classes using object references. This monograph presents the fundamentals of object databases, with a specific focus on conceptual modeling of object database designs. After an introduction to the fundamental concepts of object-oriented data, the monograph provides a review of object-oriented conceptual modeling techniques using side-by-side Enhanced Entity Relationship diagrams and Unified Modeling Language conceptual class diagrams that feature class hierarchies with

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specialization constraints and object associations. These object-oriented conceptual models provide the basis for introducing case studies that illustrate the use of object features within the design of object-oriented and object-relational databases. For the object-oriented database perspective, the Object Data Management Group data definition language provides a portable, language-independent specification of an object schema, together with an SQL-like object query language. LINQ (Language INtegrated Query) is presented as a case study of an object query language together

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with its use in the db4o open-source object-oriented database. For the object-relational perspective, the object-relational features of the SQL standard are presented together with an accompanying case study of the object-relational features of Oracle. For completeness of coverage, an appendix provides a mapping of object-oriented conceptual designs to the relational model and its associated constraints. Table of Contents: List of Figures / List of Tables / Introduction to Object Databases / Object-Oriented Databases / Object-Relational Databases

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Advances in Object-oriented
Data Modeling
Evolution and Interoperation
An Object Oriented Data Model
Readings in Object-oriented
Database Systems
Modeling and Applications
Proceedings of the Fifteenth
International Conference on Very
Large Data Bases
An Object-oriented Data Model
for Hypertext

Abstract: "The appellation 'object-oriented' is affixed to a wide range of recent database system prototypes and products, with no agreement on its exact meaning. This paper offers a definition for an object-oriented database system, explains why a standard for 'the' object-oriented data

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model will be hard to come by, and examines the differences in the models of current object-oriented databases. It concludes with predictions on the effect of object-oriented databases on the commercial marketplace."

Object-oriented data modeling is starting to replace the relational model for many recently emerging database applications. The complex nature of these databases precludes mapping of their data directly into a tabular relational structure. Current object-oriented data modeling lacks the standardization and mathematical soundness of the relational model. This thesis addresses this problem by proposing a conceptual data model called OPERA (Object Paradigm / Entity-Relationship Approach). OPERA incorporates the static

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features of the Entity-Relationship Model with the dynamic properties of object-orientation. In addition to OPERA, an object-oriented extension to the graphical query language GORDAS (Graph-Oriented Data Selection) is proposed. To demonstrate the effectiveness of the proposed model, we will model a United States combat systems support database, the EWIRDB (Electronic Warfare Integrated Reprogramming Database). We map the EWIRDB from its basic relational format to an object schema and then to an OPERA graph. Finally, this conceptual schema is mapped to a GORDAS schema graph and queries are performed on the database. OPERA is conceptually superior to the ER Model and its object-oriented variant, the Enhanced Entity-Relationship Model (EER) Model. We

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demonstrate this by representing methods as relationship types, which the ER and EER models are incapable of OPERA also aids in query formulation for visual query languages such as GORDAS by providing a query graph mapping template.

The Fifth International Conference on Statistical and Scientific Databases continued a series of conferences started nine years ago; several conferences were held in California and Europe. The papers presented here cover a wide area of research in this field.

Advances in Object-Oriented
Database Systems

Object-oriented Data Modeling of
Characteristic Product Option
Configurations

Conceptual and Philosophical
Foundations

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Object-Oriented and Object-Relational
Design

A Conceptual Approach to Object-
oriented Data Modeling

A Study in Design and Preliminary
Implementations

Data Management Systems

***Fundamentals of object-
oriented databases; Object-
oriented fundamentals;
Semantic data models and
persistent languages; Object-
oriented database systems;
Implementation; Transaction
processing; Special features;
Relational extensions and
extensible databases;
Interfaces; Applications.***
***"The book covers
comprehensive and***

fundamental aspects of the implementation of object-oriented modeling in a DBMS that was originated as a pure Relational Database, Oracle"--Provided by publisher.

"This paper develops sophisticated data management facilities for maintaining computer-aided design (CAD) and computer-aided manufacturing (CAM) databases. The product of this research is the theoretical design of an object-oriented data model (ODM), and the implementation of an ODM

**computer software
prototype. The work focuses
on mechanical design,
engineering, and
manufacturing, specifically
product definition data
generated during initial
design phases. Detailed
analysis of CAD/CAM
application and data
management requirements
were conducted to produce
the ODM functional
specifications. This paper
presents the results of this
analysis and an evaluation of
ODM in achieving the goals
of integrated CAD/CAM data
management systems.**

Although most discussion concentrates on mechanical manufacturing, the developed methodology and tools for CAD/CAM data management apply to other design domains such as architecture and electronics."--Rand abstracts
Hands-On Big Data Modeling Models and Languages of Object-oriented Databases

Fuzzy And Uncertain Object-Oriented Databases Database Systems August 22-25, 1989, Amsterdam, The

Netherlands

Object-oriented Modeling and Design

Enriching database models so as to allow the user to deal with fuzzy and uncertain information has been of scientists' concern for years. This resulted in numerous contributions, mainly with respect to the popular relational model or to some related form of it. The experience was instructive, although still far from concrete applications. The time has come that the advantages of object-oriented databases are acknowledged outside the research and academic worlds

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and a breakthrough of new commercial softwares is observed. Lately research has been devoted to the endowment of this type of databases with more real-world reflecting semantics. It proved that the object-oriented paradigm lends itself extremely well to it. This is very promising and opens new perspectives for the availability of new-generation database products in the near future. The book presents the latest research results in dealing with fuzziness and uncertainty in object-oriented databases. Contents:Foreword (R Yager)Preface (R de

Caluwe) Basic Notions and Rationale of the Integration of Uncertainty Management and Object-Oriented Databases (R de Caluwe et al.)

Hierarchical Model of Fuzzy Classes (J-P Rossazza et al.)

Modelling Impreciseness and Uncertainty in the Object-Oriented Data Model — A Similarity-Based Approach (R George et al.)

Extending a Graph-Based Data Model to Manage Fuzzy and Uncertain Information (G Bordogna et al.)

The UFO Database Model: Dealing with Imperfect Information (N van Gyseghem & R de Caluwe)

Fuzzy Object-Oriented Data Model and

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*Fuzzy Association Algebra (S
Na & S Park) Readership:
Researchers and engineers
interested in databases and
software
engineering/programming.
keywords: Concepts of Fuzzy
Databases; Modeling of Fuzzy
Data; Modeling of Uncertain
Data; Modeling of
Databases; Modeling of Object-
Oriented Databases; Modeling
of Fuzziness in
Databases; Modeling of
Uncertainty in
Databases; Fuzzy
Databases; Fuzzy Object-
Oriented Databases; Uncertain
Object-Oriented Databases
This book focuses on recent*

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developments in representational and processing aspects of complex data-intensive applications. Until recently, information systems have been designed around different business functions, such as accounts payable and inventory control. Object-oriented modeling, in contrast, structures systems around the data--the objects--that make up the various business functions. Because information about a particular function is limited to one place--to the object--the system is shielded from the effects of change. Object-oriented modeling also

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promotes better understanding of requirements, clear designs, and more easily maintainable systems. This book focuses on recent developments in representational and processing aspects of complex data-intensive applications. The chapters cover "hot" topics such as application behavior and consistency, reverse engineering, interoperability and collaboration between objects, and work-flow modeling. Each chapter contains a review of its subject, followed by object-oriented modeling techniques and methodologies that can be applied to real-life

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*applications. Contributors F.
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Snodgrass, S. Spaccapietra, M.
Stumptner, M. Teisseire, W. J.
van den Heuevel, S. N.
Woodfield*

*"My tailor is Object-Oriented".
Most software systems that
have been built - cently are
claimed to be Object-Oriented.*

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Even older software systems that are still in commercial use have been upgraded with some OO ?avors. The range of areas where OO can be viewed as a \must-have" feature seems to be as large as the number of elds in computer science. If we stick to one of the original views of OO, that is, to create cost-e ective software solutions through modeling physical abstractions, the application of OO to any eld of computer science does indeed make sense. There are OO programming languages, OO operating s- tems, OO databases, OO speci cations, OO methodologies, etc. So

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what does a conference on Object-Oriented Programming really mean? I honestly don't know. What I do know is that, since its creation in 1987, ECOOP has been attracting a large number of contributions, and ECOOP conferences have ended up with high-quality technical programs, featuring interesting mixtures of theory and practice. Among the 183 initial submissions to ECOOP'99, 20 papers were selected for inclusion in the technical program of the conference. Every paper was reviewed by three to ve referees. The selection of papers was carried out during

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a t- day program committee meeting at the Swiss Federal Institute of Technology in Lausanne. Papers were judged according to their originality, presentation qu- ity, and relevance to the conference topics.

*Utrecht, The Netherlands,
June 29 - July 3, 1992.*

Proceedings

*Using UML for Data Modeling
Concepts and Models*

Fourth International

Conference, DOOD' 95,

Singapore, December 4-7,

1995. Proceedings

Proceedings of the 1997

*National Conference on Object
Oriented Technology (NCOOT*

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'97), August 22-24, 1997

14th International Conference,
Gold Coast, Australia,
December 13 - 15, 1995.

Proceedings

***Craft the Right Design Using
UML Whether building a
relational, object-relational, or
object-oriented database,
database developers are
increasingly relying on an object-
oriented design approach as the
best way to meet user needs and
performance criteria. This book
teaches you how to use the
Unified Modeling Language-the
official standard of the Object
Management Group-to develop
and implement the best possible
design for your database. Inside,***

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the author leads you step by step through the design process, from requirements analysis to schema generation. You'll learn to express stakeholder needs in UML use cases and actor diagrams, to translate UML entities into database components, and to transform the resulting design into relational, object-relational, and object-oriented schemas for all major DBMS products. Features Teaches you everything you need to know to design, build, and test databases using an OO model. Shows you how to use UML, the accepted standard for database design according to OO principles. Explains how to

transform your design into a conceptual schema for relational, object-relational, and object-oriented DBMSs. Offers practical examples of design for Oracle, SQL Server, Sybase, Informix, Object Design, POET, and other database management systems. Focuses heavily on re-using design patterns for maximum productivity and teaches you how to certify completed designs for re-use.

This volume constitutes the refereed proceedings of the 14th International Conference on Object-Oriented and Entity-Relationship Modelling, OOER '95, held in Gold Coast, Australia in December 1995. The 36 papers

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presented together with an invited presentation by Gio Wiederhold were selected from a total of 120 submissions. The papers are organized in sections on object design and modelling, models and languages, reverse engineering and schema transformation, behavioral modelling, non-traditional modelling, theoretical foundations, business re-engineering, integrated approaches, cooperative work modelling, temporal data modelling, federated systems design, and industrial stream papers

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