

Deductive and Object-Oriented Databases

W. Kim
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Editors

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Deductive And Object Oriented Databases

**C. Delobel, Michael Kifer, Yoshifumi
Masunaga**



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Deductive and Object-Oriented Databases Tok W. Ling,Alberto O. Mendelzon,Laurent Vieille,2014-01-15

Deductive and Object-Oriented Databases Stefano Ceri,Katsumi Tanaka,Shalom Tsur,1993-11-16 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 **Deductive and**

Object-Oriented Databases Tok W. Ling,Alberto O. Mendelzon,Laurent Vieille,1995-11-15 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 authorization implementation and applications *Deductive and Object-oriented Databases* Stefano Ceri,Katsumi Tanaka,Shalom Tsur,1993 **Deductive and Object-Oriented Databases**

Francois Bry,Raghu Ramakrishnan,Kotagiri Ramamohanarao,1997-11-12 This book constitutes the refereed proceedings of the 5th International Conference on Deductive and Object Oriented Databases DOOD 97 held in Montreux Switzerland in December 1997 The 22 revised full papers presented in this book were selected from a total of 59 submissions Also included are abstracts or full versions of three invited talks and three tutorials and six short presentations The papers are organized in topical sections on materialized view maintenance extending DBMs features database updates managing change in object databases semantics of active databases formal semantics and new directions Deductive and Object-oriented Databases

C. Delobel,Michael Kifer,Yoshifumi Masunaga,1991 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 for a 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 *Deductive and Object-Oriented Databases* W. Kim,J.-M. Nicolas,S.

Nishio,2014-06-28 Deductive databases and object oriented databases are at the forefront of research in next generation intelligent database systems Object oriented programming and design methodologies have great potential promising to reduce the complexity of very large software systems in such domains as computer aided design and manufacturing integrated office information systems and artificial intelligence Object oriented database systems will enhance the programmer user productivity of such systems Research into deductive databases is aimed at discovering efficient schemes to uniformly represent assertions and deductive rules and to respond to highly expressive queries against the knowledge base of assertions and rules This area of research is strongly interacting with Logic Programming which has developed in parallel sharing Logic as a common basis Recently research has aimed at integrating the object oriented paradigm and rule based deduction to provide a single powerful framework for intelligent database systems The aim of this book is to present research papers and technical discussions between researchers concerned with deductive databases object oriented databases and their integration

Deductive and Object-Oriented Databases Claude Delobel,Michael Kifer,Yoshifumi Masunaga,2014-01-15 **Deductive and object oriented databases ; 3** ,1993 **Deductive and Object Oriented Databases ; 1** ,1989

Deductive and Object-Oriented Databases Francois Bry,Raghu Ramakrishnan,Kotagiri Ramamohanarao,2014-01-15 **Deductive and Object-oriented Databases** W. Kim,1990 **How to Derive a New Deductive and Object-oriented Database System from a Well-defined F-logic Database** Shieh-Loun Lee,1992

Towards Integration of Deductive Databases and Object-oriented Databases Kazumasa Yokota,Shin Sedai Konpyūta Gijutsu Kaihatsu Kikō (Japan),Shōjirō Nishio,1989 Abstract There have been many proposals for extensions of relational databases It can be considered that two major streams of them are DDBsand OODBs Research on fusion or integration of their advantages has been being done at the forefront of research on database and logic programming For the target the first international conference on deductive and object oriented databases DOOD89 was held in Kyoto In this paper we propose a framework for the extensions along these lines and introduce some research results such as psi term O logic F logic DOT and hierarchical deductive databases in the framework and discuss future directions **Database and Expert**

Systems Applications Gerald Quirchmayr,Erich Schweighofer,Trevor J.M. Bench-Capon,1998-08-14 This book constitutes the refereed proceedings of the 9th International Conference on Database and Expert Systems Applications DEXA 98 held in Vienna Austria in August 1998 The 81 revised full papers presented were carefully selected from a total of more than 200 submissions The papers are organized in sections on active databases object oriented systems data engineering information retrieval workflow and cooperative systems spatial and temporal aspects document management spatial databases

adaptation and view updates genetic algorithms cooperative and distributed environments interaction and communication transaction advanced applications temporal aspects oriented systems partitioning and fragmentation database queries data data warehouses knowledge discovery and data mining knowledge extraction and knowledge base reduction for comprehension and reuse

Advances in Databases and Information Systems Yannis Manolopoulos, Jaroslav Pokorný, Timos Sellis, 2006-09 This book constitutes the refereed proceedings of the 10th East European Conference on Advances in Databases and Information Systems ADBIS 2006 The book presents 29 high quality papers selected in a rigorous reviewing process The papers address a wide range of hot research issues and are organized in topical sections on XML databases and semantic web web information systems and middleware query processing and indexing modelling and design issues and more

A Semantic Query Processor for Deductive and Object-oriented Databases Seonggyu Kim, 1994

Advanced Information Systems Engineering Pericles Loucopoulos, 1992-04-29 As humanity approaches the 3rd millennium the sustainability of our present way of life becomes more and more questionable New paradigms for the long term coevolution of nature and civilization are urgently needed in order to avoid intolerable and irreversible modifications of our planetary environment Earth System Analysis is a new scientific enterprise that tries to perceive the earth as a whole a unique system which is to be analyzed with methods ranging from nonlinear dynamics to macroeconomic modelling This book resulting from an international symposium organized by the Potsdam Institute has 2 aims first to integrate contributions from leading researchers and scholars from around the world to provide a multifaceted perspective of what Earth System Analysis is all about and second to outline the scope of the scientific challenge and elaborate the general formalism for a well defined transdisciplinary discourse on this most fascinating issue

Parallel, Object-Oriented, and Active Knowledge Base Systems Ioannis Vlahavas, Nick Bassiliades, 2013-03-09 Knowledge Base Systems are an integration of conventional database systems with Artificial Intelligence techniques They provide inference capabilities to the database system by encapsulating the knowledge of the application domain within the database Knowledge is the most valuable of all corporate resources that must be captured stored re used and continuously improved in much the same way as database systems were important in the previous decade Flexible extensible and yet efficient Knowledge Base Systems are needed to capture the increasing demand for knowledge based applications which will become a significant market in the next decade Knowledge can be expressed in many static and dynamic forms the most prominent being domain objects their relationships and their rules of evolution and transformation It is important to express and seamlessly use all types of knowledge in a single Knowledge Base System Parallel Object Oriented and Active Knowledge Base Systems presents in detail features that a Knowledge Base System should have in order to fulfill the above requirements Parallel Object Oriented and Active Knowledge Base Systems covers in detail the following topics Integration of deductive production and active rules in sequential database systems Integration and inter operation of multiple rule types into the same Knowledge Base System Parallel rule matching and

execution for deductive production and active rules in parallel Expert Knowledge Base and Database Systems In depth description of a Parallel Object Oriented and Active Knowledge Base System that integrates all rule paradigms into a single database system without hindering performance Parallel Object Oriented and Active Knowledge Base Systems is intended as a graduate level text for a course on Knowledge Base Systems and as a reference for researchers and practitioners in the areas of database systems knowledge base systems and Artificial Intelligence **Database Systems for Advanced Applications** Jeffrey Xu Yu, Myoung Ho Kim, Rainer Unland, 2011-04-09 This two volume set LNCS 6587 and LNCS 6588 constitutes the refereed proceedings of the 16th International Conference on Database Systems for Advanced Applications DASFAA 2011 held in Saarbrücken Germany in April 2010 The 53 revised full papers and 12 revised short papers presented together with 2 invited keynote papers 22 demonstration papers 4 industrial papers 8 demo papers and the abstract of 1 panel discussion were carefully reviewed and selected from a total of 225 submissions The topics covered are social network social network and privacy data mining probability and uncertainty stream processing graph XML XML and graph similarity searching and digital preservation spatial queries query processing as well as indexing and high performance

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Table of Contents Deductive And Object Oriented Databases

1. Understanding the eBook Deductive And Object Oriented Databases
 - The Rise of Digital Reading Deductive And Object Oriented Databases
 - Advantages of eBooks Over Traditional Books
2. Identifying Deductive And Object Oriented Databases
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Deductive And Object Oriented Databases
 - User-Friendly Interface
4. Exploring eBook Recommendations from Deductive And Object Oriented Databases
 - Personalized Recommendations
 - Deductive And Object Oriented Databases User Reviews and Ratings
 - Deductive And Object Oriented Databases and Bestseller Lists
5. Accessing Deductive And Object Oriented Databases Free and Paid eBooks

- Deductive And Object Oriented Databases Public Domain eBooks
- Deductive And Object Oriented Databases eBook Subscription Services
- Deductive And Object Oriented Databases Budget-Friendly Options
- 6. Navigating Deductive And Object Oriented Databases eBook Formats
 - ePub, PDF, MOBI, and More
 - Deductive And Object Oriented Databases Compatibility with Devices
 - Deductive And Object Oriented Databases Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Deductive And Object Oriented Databases
 - Highlighting and Note-Taking Deductive And Object Oriented Databases
 - Interactive Elements Deductive And Object Oriented Databases
- 8. Staying Engaged with Deductive And Object Oriented Databases
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Deductive And Object Oriented Databases
- 9. Balancing eBooks and Physical Books Deductive And Object Oriented Databases
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Deductive And Object Oriented Databases
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Deductive And Object Oriented Databases
 - Setting Reading Goals Deductive And Object Oriented Databases
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Deductive And Object Oriented Databases
 - Fact-Checking eBook Content of Deductive And Object Oriented Databases
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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support various scientific fields this work reports a systematic evaluation of analytical separations using eichrom industries
ln resin and simple peristaltic pump fed low pressure chromatography columns

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elements the valence electrons of these elements lie in the 4f orbital lanthanum however is a d block element with an
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elements with atomic numbers 57 70 from lanthanum through ytterbium 2 3 4 lutetium is also sometimes considered a
lanthanide despite being a d block element and a transition metal

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web a central feature of lanthanide chemistry is the strongly ionic character of the bonding between lanthanide cations and
other atoms as a result of this ionicity they can be classified as hard strongly acidic cations this hard acid nature is evident
whether we consider the bonds between lanthanide cations with oxygen nitrogen or halogen

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web may 3 2019 lanthanides definition the lanthanides are generally considered to be elements with atomic numbers 58 71
lanthanum to lutetium the lanthanide series is the group of elements in which the 4f sublevel is being filled all of these
elements are metals specifically transition metals they share several common properties

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web five of the elements la ce pr nd eu are very reactive and when exposed to air react with oxygen to form an oxide coating
that tarnishes the surface for this reason these metals are stored under mineral oil the remainder of the lanthanides are not
as reactive and some gd lu retain their silvery metallic appearance for a long time

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web jul 12 2023 lanthanides elements 57 71 are fairly abundant in the earth s crust despite their historic characterization

as rare earth elements thulium the rarest naturally occurring lanthanoid is more common in the earth's crust than silver 45 105 versus 0.79 105 by mass

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web may 22 2015 li et al have shown that the biological diversity at lanthanide mining sites decreased when lanthanides were found in high concentrations 4 prompting researchers to isolate microorganisms that can effectively concentrate lanthanides in their cell walls for use in future bioremediation endeavors 5

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web this rooted the idea that the optical properties of Ln atoms can be understood in isolation indeed given the interest for the Lnⁱⁱⁱ luminescence most studies focus on understanding the f-f transitions

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web jun 30 2023 elements lanthanum 57 through lutetium 71 on the periodic table are considered to be lanthanides lanthanides tend to react with oxygen to form oxides the reaction at room temperature can be slow while heat can cause the reaction to

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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

list of elements in the lanthanide series thoughtco - Mar 23 2022

web dec 12 2019 here's a list of the 15 elements that are lanthanides which run from atomic number 57 lanthanum or Ln and 71 lutetium or Lu lanthanum symbol Ln atomic number 57 cerium symbol Ce atomic number 58 praseodymium symbol Pr atomic number 59 neodymium symbol Nd atomic number 60 promethium symbol Pm

the lanthanide elements z 58 71 sciencedirect - Feb 02 2023

web jan 1 1997 the lanthanides comprise the largest naturally occurring group in the periodic table there are more than 100 minerals known to contain lanthanides but the only two of commercial importance are monazite and bastnaesite the chapter discusses the production of lanthanide elements by electrolysis of fused salts and by metallothermic reduction

7.1 lanthanoids chemistry libretexts - Nov 30 2022

web the fifteen elements shown in table pageindex 1 from lanthanum La 4f⁰ to lutetium Lu 4f¹⁴ are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium Sc and yttrium Y are sometimes called rare earth elements they are relatively abundant in the earth's crust

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web nov 1 1998 production of lanthanides has shown a continuous increase in recent years 50 taking all these facts into account it is reasonable to consider the development of corrosion protection methods using this family of compounds at first the lanthanide elements principally cerium were used in protection against corrosion at high

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web lanthanides metals peptides and proteins selectivity abstract the essential biological role of rare earth elements lay hidden until the discovery in 2011 that lanthanides are specifically incorporated into a bacterial methanol dehydrogenase

analytical separations of the lanthanides basic sciencedirect - Jul 07 2023

web jan 1 2000 powell describes displacement chromatography and elution chromatography as the two principal methods for separating lanthanide cations by ion exchange chromatography in displacement chromatography the ions to be separated are first sorbed onto a column of the resin the analyte metals are eluted from the column

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web feb 4 2021 the lanthanides are located on the top row of the two rows of elements found below the main body of the periodic table placing the lanthanides and the actinides the row below the lanthanides below the other elements is just a matter of aesthetics the lanthanides belong to period 6 like cesium barium and hafnium