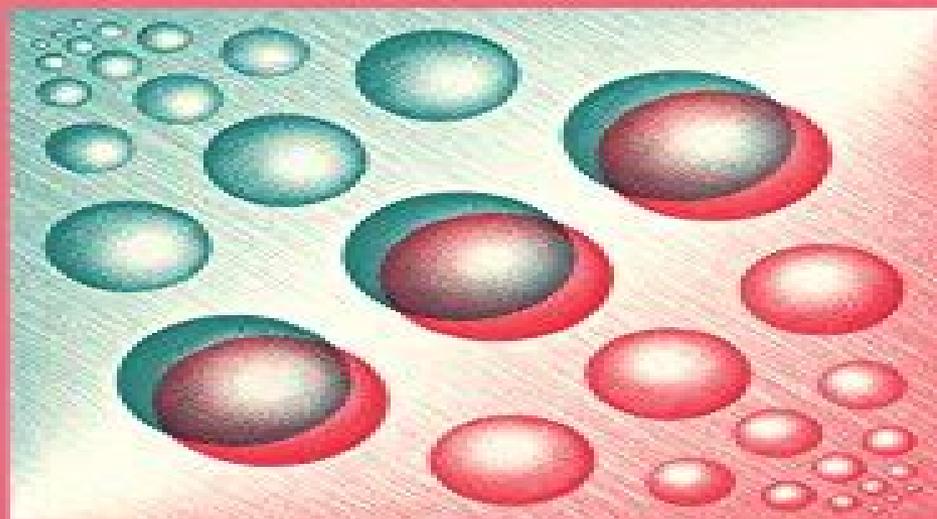


readings in

ARTIFICIAL INTELLIGENCE & DATABASES



edited by

JOHN MYLOPOULOS
MICHAEL L. BRODIE

Readings In Artificial Intelligence And Databases

Charles Hargis Davis



Readings In Artificial Intelligence And Databases:

Readings in Artificial Intelligence and Databases John Mylopoulos, Michael L. Brodie, 2014-06-28 The interaction of database and AI technologies is crucial to such applications as data mining active databases and knowledge based expert systems This volume collects the primary readings on the interactions actual and potential between these two fields The editors have chosen articles to balance significant early research and the best and most comprehensive articles from the 1980s An in depth introduction discusses basic research motivations giving a survey of the history concepts and terminology of the interaction Major themes approaches and results open issues and future directions are all discussed including the results of a major survey conducted by the editors of current work in industry and research labs Thirteen sections follow each with a short introduction Topics examined include semantic data models with emphasis on conceptual modeling techniques for databases and information systems and the integration of data model concepts in high level data languages definition and maintenance of integrity constraints in databases and knowledge bases natural language front ends object oriented database management systems implementation issues such as concurrency control and error recovery and representation of time and knowledge incompleteness from the viewpoints of databases logic programming and AI

Readings in Object-Oriented Database Systems Stanley B. Zdonik, David Maier, 1990 This comprehensive collection is a survey of research in object oriented databases offering a substantive overview of the field section introductions and over 40 research papers presented in their original scope and detail The balanced selection of articles presents a confluence of ideas from both the language and database research communities that have contributed to the object oriented paradigm The editors develop a general definition and model for object oriented databases and relate significant research efforts to this framework Further the collection explores the fundamental notions behind object oriented databases semantic data models implementation of object oriented systems transaction processing interfaces and related approaches Research and theory are balanced by applications to CAD systems programming environments and office information systems *Handbook on Architectures of Information Systems* Peter Bernus, Kai Mertins, Günter Schmidt, 2013-03-14 This book is the first volume of a running series under the title International Handbooks on Information Systems The series is edited by Peter Bemus Jacek Blazewicz Günter Schmidt and Mike Shaw One objective is to give state of the art surveys on selected topics of information systems theory and applications To this end a distinguished international group of academics and practitioners are invited to provide a reference source not only for problem solvers in business industry and government but also for professional researchers and graduate students It seemed appropriate to start the series with a volume covering some basic aspects about information systems The focus of the first volume is therefore architectures It was decided to have a balanced number of contributions from academia and practitioners The structure of the material follows a differentiation between modelling languages tools and methodologies These are collected into separate parts allowing the reader of the handbook a better

comparison of the contributions Information systems are a major component of the entire enterprise and the reader will notice that many contributions could just as easily have been included in another volume of the series which is on enterprise integration Conversely some traditionally information systems topics as organisational analysis and strategic change management methods will be treated in more depth in the Handbook on Enterprise Integration The two volumes will complement each other

Keyguide to Information Sources in Artificial Intelligence/expert Systems Peter J. Hancox, William J. Mills, William James Mills, Bruce J. Reid, 1990

Database Systems Paul Beynon-Davies, 2017-04-25 Most modern day organizations have a need to record data relevant to their everyday activities and many choose to organise and store some of this information in an electronic database Database Systems provides an essential introduction to modern database technology and the development of database systems This new edition has been fully updated to include new developments in the field and features new chapters on e business database development process requirements for databases and distributed processing In addition a wealth of new examples and exercises have been added to each chapter to make the book more practically useful to students and full lecturer support will be available online

The Use of Database Mining and Artificial Intelligence in Bioprocess Optimization Venkatanarayanan Subramanian, 2000

Database Systems Thomas M. Connolly, Carolyn E. Begg, 1999 A strong foundation in good design practice this second edition offers information in an accessible step by step fashion This methodology is then applied to a working example so that the reader may learn to design and build applications using a leading commercial database system

Strategic Database Technology Alan R. Simon, 1995 Noted consultant Alan Simon s 11th book explores the potential of current and emerging database technologies Technically serious but not technically detailed this book is designed to give information managers and others an overview of the trends and technologies for use in the years ahead so that they can be incorporated into the manager s plans today

Multimedia and Imaging Databases Setrag Khoshafian, Brad Baker, 1996 Affordable and mainstream manipulation of multimedia data types will lead to tremendous growth in imaging and multimedia data in general computing environments Multimedia and imaging applications can now provide benefits to common business applications by integrating voice sound images animation and digitized video Ultimately it will be possible to convert all information that is currently stored on paper video and film into a digitized environment This will allow users to organize search and route multimedia objects over local and wide area networks in real time The authors introductory level presentation of this new class of data types supplies the database technology required for effective manipulation and storage Multimedia and database experts Khoshafian and Baker aptly illustrate the ability of multimedia database systems to concurrently share access and query large collections of multimedia information They introduce the elemental concepts of object and relational databases and then apply them to multimedia and imaging databases Fundamental database topics discussed include querying transaction support recovery security and storage This book provides information essential to the incorporation of multimedia databases that will improve

the quantity and quality of information manipulated by computer users in many areas including medicine computer aided design and information retrieval systems *Bibliographic Guide to Computer Science*, 1990 *Databases in Historical Research* Charles Harvey, Jon Press, 1995-12-18 This textbook builds knowledge progressively and sympathetically from first principles to advanced topics The authors explain how to take a project from the specification stage to completion and offer guidance on choice of approach techniques hardware and software Key ideas are presented in a readily understandable form through the use of diagrams and summary boxes and the text is brought to life through the use of case studies An ideal handbook for the undergraduate postgraduate and professional historian embarking on a dissertation or historical research

The Design of Relational Databases Heikki Mannila, Kari-Jouko Rähkä, 1992 This is a reference guide on the design of relational databases It applies the entity relationship model to the conceptual level of database design and combines this application with rigorous treatment of the design of relational schemes The book presents practical design theory and methods in a unified way **Research Anthology on Artificial Intelligence Applications in Security Management** Association, Information Resources, 2020-11-27 As industries are rapidly being digitalized and information is being more heavily stored and transmitted online the security of information has become a top priority in securing the use of online networks as a safe and effective platform With the vast and diverse potential of artificial intelligence AI applications it has become easier than ever to identify cyber vulnerabilities potential threats and the identification of solutions to these unique problems The latest tools and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet leading AI to be a frontrunner in the fight against malware cyber attacks and various security issues However even with the tremendous progress AI has made within the sphere of security it is important to understand the impacts implications and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security based research *Research Anthology on Artificial Intelligence Applications in Security* seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications the latest tools and technologies as well as the utilization of AI and what challenges and impacts have been discovered along the way This resource work is a critical exploration of the latest research on security and an overview of how AI has impacted the field and will continue to advance as an essential tool for security safety and privacy online This book is ideally intended for cyber security analysts computer engineers IT specialists practitioners stakeholders researchers academicians and students interested in AI applications in the realm of security research **Database Management--how Much Power is Enough?** Charles Hargis Davis, 1991 **On Intelligent and Cooperative Information Systems** Michael L. Brodie, 1992 *Expert Database Systems* Paul Beynon-Davies, 1991 This book is the first to bring together information on expert databases and to integrate databases and Knowledge Based System

KBS independently from both perspectives The primary emphasis is on EDS architecture but the book goes on to discuss the whole process of building KBS concentrating on a whole range of corporate issues surrounding this new technology

Journal of Object-oriented Programming ,1993 *Database Design* Naphtali Rishe,1992 This book covers the broad field of database design from the perspective of semantic modeling Aimed at present and future designers of database applications software engineers systems analysts and programmers it aims to offer a unified study of semantic relational network and hierarchical databases as seen through the semantic modeling approach The book provides a structured top down methodology of database design in all the models and presents the principal types of database languages **CNIASE 94** ,1994 **Potential Methodologies of Intelligent Access to Multiple Databases** Peggy Wright,1993

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