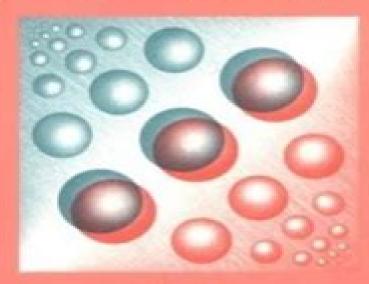
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# ARTIFICIAL INTELLIGENCE & DATABASES



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# **Readings In Artificial Intelligence And Databases**

**Vincent B. Robinson, Henry Tom** 

#### **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.

Towards SQL Database Language Extensions for Geographic Information Systems Vincent B. Robinson, Henry Tom, 1998-04 Chapters on heterogeneous GIS architectures spatial data models transactions database language SQL emerging features for GIS applications proposed spatial data handling extensions to SQL a GIS perspective on spatial conceptual folding unfolding of spatial data for spatial gueries Illustrated *Database and Expert Systems Applications* Dimitris Karagiannis, 2013-11-11 The Database and Expert Systems Applications DEXA conferences are dedicated to providing an international forum for the presentation of applications in the database and expert systems field for the exchange of ideas and experiences and for defining requirements for the future systems in these fields After the very promising DEXA 90 in Vienna Austria we hope to have successfully established with this year's DEXA 91 a stage where scientists from diverse fields interested in application oriented research can present and discuss their work This year there was a total of more than 250 submitted papers from 28 different countries in all continents Only 98 of the papers could be accepted The collection of papers in these proceedings offers a cross section of the issues facing the area of databases and expert systems i e topics of basic research interest on one hand and questions occurring when developing applications on the other Major credit for the success of the conference goes to all of our colleagues who submitted papers for consideration and to those who have organized and chaired the panel sessions Many persons contributed numerous hours to organize this conference The names of most of them will appear on the following pages In particular we wish to thank the Organization Committee Chairmen Johann Gordesch A Min Tjoa and Roland Wag ner who also helped establishing the program Special thanks also go to Gabriella Wagner and Anke Ruckert Dimitris Karagiannis General Conference Chairman Contents

Conference Committee Database Reengineering and Interoperability T.Y. Cheung, J. Fong, B. Siu, 2012-12-06 Modern computing management systems and application programs are often de signed as open systems In an open environment the users application programs serving similar purposes though possibly implemented using different hardware or software tech nologies can interact easily and properly with one other But it is a big challenge in research and development to provide the means for integrating these technologies and reengineering the new or existing management systems so as to make all of the relevant components interoperable In case of databases because of the variety in data models and theory the interoper ability and reengineering issues become even more complex and crucial especially for companies heavily involved in data management With the rapid advances in networking and database modeling technology old issues may have to be reinvestigated and new issues come up constantly It is our hope that this year s workshop the sixth in a series of annual events can provide a timely forum for database researchers and practitioners to share their recent experience and results in various aspects of this fast developing field This series of workshops has been organized by the Hong Kong Computer Society and financially supported by many local industrial and business companies This year the Cooperative Research Centre for Open Systems Technology located in the Department of Computer Science City University of Hong Kong has joined the organization team and the list of financial sponsors **Logic Programming and Databases** Stefano Ceri, Georg Gottlob, Letizia Tanca, 2012-12-06 The topic of logic programming and databases has gained in creasing interest in recent years Several events have marked the rapid evolution of this field the selection by the Japanese Fifth Generation Project of Prolog and of the relational data model as the basis for the development of new machine architectures the focusing of research in database theory on logic queries and on recursive query processing and the pragmatic application oriented development of expert database systems and of knowledge base systems As a result an enormous amount of work has been produced in the recent literature coupled with the spontaneous growth of several advanced projects in this area The goal of this book is to present a systematic overview of a rapidly evolving discipline which is presently not described with the same approach in other books We intend to introduce stu dents and researchers to this new discipline thus we use a plain tutorial style and complement the description of algorithms with examples and exercises We attempt to achieve a balance be tween theoretical foundations and technological issues thus we present a careful introduction to the new language Datalog but we also focus on the efficient interfacing of logic programming formalisms such as Prolog and Datalog with large databases

Towards SQL Database Extensions for Geographic Information Systems Vincent B. Robinson, Henry Tom,
Databases In The 1990s: 2 - Proceedings Of The 2nd Australian Databases- Information Systems Conference B
Srinivasan, John Zeleznikow, 1991-06-14 These proceedings record the research and experiences of various researchers from
Australia and other countries in databases and information systems The papers were selected based on their originality
content relevance and style Topics discussed include advanced database applications information analysis and data modelling

object oriented DBMS distributed heterogeneous and parallel database systems information resource planning and **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 Logics for Databases and Information Systems Jan Chomicki, Gunter Saake, 2012-12-06 Time is and applications ubiquitous in information systems Almost every enterprise faces the problem of its data becoming out of date However such data is often valu able so it should be archived and some means to access it should be provided Also some data may be inherently historical e q medical cadastral or ju dicial records Temporal databases provide a uniform and systematic way of dealing with historical data Many languages have been proposed for tem poral databases among others temporal logic Temporal logic combines ab stract formal semantics with the amenability to efficient implementation This chapter shows how temporal logic can be used in temporal database applications Rather than presenting new results we report on recent developments and survey the field in a systematic way using a unified formal framework GHR94 Ch094 The handbook GHR94 is a comprehensive reference on mathematical foundations of temporal logic In this chapter we study how temporal logic is used as a query and integrity constraint language Consequently model theoretic notions particularly for mula satisfaction are of primary interest Axiomatic systems and proof meth ods for temporal logic GHR94 have found so far relatively few applications in the context of information systems Moreover one needs to bear in mind that for the standard linearly ordered time domains temporal logic is not re cursively axiomatizable GHR94 so recursive axiomatizations are by Algorithmic Learning Theory Klaus P. Jantke, Shigenobu Kobayashi, Etsuji Tomita, 1993-10-20 necessity incomplete Annotation This volume contains the papers that were presented at the Third Workshop on Algorithmic Learning Theory held in Tokyoin October 1992 In addition to 3invited papers the volumecontains 19 papers accepted for presentation selected from 29 submitted extended abstracts The ALT workshops have beenheld annually since 1990 and are organized and sponsored by the Japanese Society for Artificial Intelligence The main objective of these workshops is to provide an open forum fordiscussions and exchanges of ideasbetween researchers from various backgrounds in this emerging interdisciplinaryfield of learning theory The volume is organized into partson learning via query neural networks inductive inference analogical reasoning and approximate learning Proceedings of the Second International Workshop on Database Programming Languages Richard Hull, Ronald Morrison, David Stemple, 1990 **Web Data Mining and Applications in** Business Intelligence and Counter-Terrorism Bhavani Thuraisingham, 2003-06-26 The explosion of Web based data has

created a demand among executives and technologists for methods to identify gather analyze and utilize data that may be of value to corporations and organizations The emergence of data mining and the larger field of Web mining has businesses lost within a confusing maze of mechanisms and strategies for obta Data Mining: A Heuristic Approach Abbass, Hussein A., Sarker, Ruhul, Newton, Charles S., 2001-07-01 Real life problems are known to be messy dynamic and multi objective and involve high levels of uncertainty and constraints Because traditional problem solving methods are no longer capable of handling this level of complexity heuristic search methods have attracted increasing attention in recent years for solving such problems Inspired by nature biology statistical mechanics physics and neuroscience heuristics techniques are used to solve many problems where traditional methods have failed Data Mining A Heuristic Approach will be a repository for the applications of these techniques in the area of data mining 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 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 **Database Systems** J. Paredaens, L. Tenenbaum, 2014-05-04 Advanced information technology is pervasive in any kind of human activity science business finance management and others and this is particularly true for database systems Both database theory and database applications constitute a very important part of the state of the art of computer science Meanwhile there is some discrepancy between different aspects of database activity Theoreticians are sometimes not much aware of the real needs of business and industry software specialists not always have the time or the apportunity to get acquainted with the most recent theoretical ideas and trends as well as with advanced prototypes arising from these ideas potential users often do not have the possibility of evaluating the theoretical foundations and the potential practical impact of different commercial products So the main goal of the course was to put together people involved in different aspects of database activity and to promote active exchange of ideas among them 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 Giinter 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 prob lem 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 con tributions from academia and practitioners. The structure of the material follows a differentiation between modelling languages tools and method ologies 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 Applications Semantics L. Mark, 2016-01-09 The number of new applications in need of database support is exploding and there is an increasing need to link and access database systems supporting these new applications via computer networks End users and non computer experts are becoming heavily involved in the set up management and use of database systems and this book provides the important database design methodologies and implementation technology which should be available for them as well as for computer experts The Use of Database Mining and Artificial Intelligence in Bioprocess Optimization Venkatanarayanan Subramanian, 2000 **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

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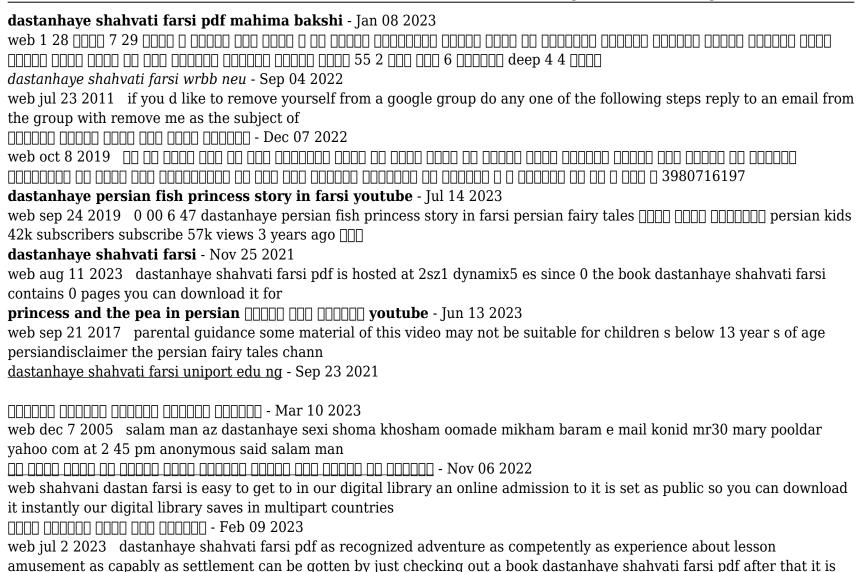
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web mar 13 2013 1 i want to do object detection with a laser in matlab when i point the laser at an object i can detect that object however because the color of my laser is red when the laser is pointed at a red object i can not detect that object here is my process first i separate red objects using different methods

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web aug 16 2016 it demonstrates the basic block diagram of object detection and explains various predefined functions and object from different toolboxes that can be useful at each level in object detection mohamedharmoush object detection and recognition using matlab - Aug 04 2022

web the goal of this project is to build an object recognition system that can detect objects from an input image and identifying the detected objects on the image by drawing a rectangle around each object on the image and classify it to be one from a 5 objects cat laptop apple helicopter and car

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web use an object detector in the computer vision toolbox to load the pretrained model and detect objects in a test image the table lists the names of the pretrained models names of the corresponding support packages and the object detectors in computer vision toolbox