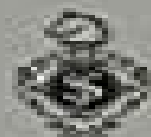
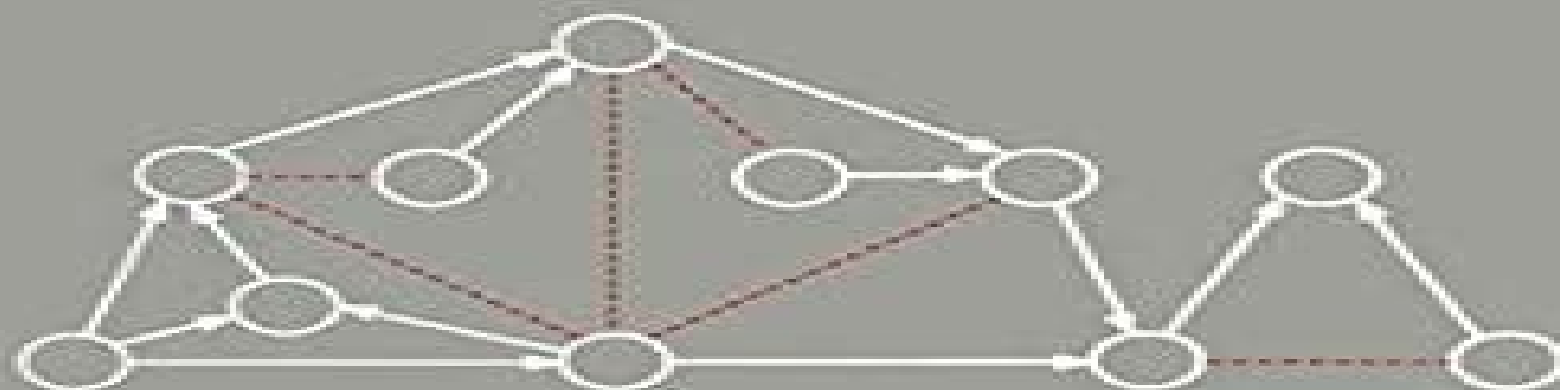


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EXPERT SYSTEMS AND PROBABILISTIC NETWORK MODELS

Enrique Castillo
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Expert Systems and Probabilistic Network Models Enrique Castillo, Jose M. Gutierrez, Ali S. Hadi, 1996-12-13

Artificial intelligence and expert systems have seen a great deal of research in recent years much of which has been devoted to methods for incorporating uncertainty into models This book is devoted to providing a thorough and up to date survey of this field for researchers and students

Expert Systems and Probabilistic Network Models Enrique Castillo, Jose M.

Gutierrez, Ali S. Hadi, 2012-12-06 Artificial intelligence and expert systems have seen a great deal of research in recent years much of which has been devoted to methods for incorporating uncertainty into models This book is devoted to providing a thorough and up to date survey of this field for researchers and students

Knowledge Integration Methods for Probabilistic Knowledge-based Systems Van Tham Nguyen, Ngoc Thanh Nguyen, Trong Hieu Tran, 2022-12-30 Knowledge based systems and solving knowledge integrating problems have seen a great surge of research activity in recent years

Knowledge Integration Methods provides a wide snapshot of building knowledge based systems inconsistency measures methods for handling consistency and methods for integrating knowledge bases The book also provides the mathematical background to solving problems of restoring consistency and integrating probabilistic knowledge bases in the integrating process

The research results presented in the book can be applied in decision support systems semantic web systems multimedia information retrieval systems medical imaging systems cooperative information systems and more This text will be useful for computer science graduates and PhD students in addition to researchers and readers working on knowledge management and ontology interpretation

Advances in Bayesian Networks José A. Gámez, Serafin Moral, Antonio Salmerón Cerdan, 2013-06-29 In recent years probabilistic graphical models especially Bayesian networks and decision graphs have experienced significant theoretical development within areas such as artificial intelligence and statistics This carefully edited monograph is a compendium of the most recent advances in the area of probabilistic graphical models such as decision graphs learning from data and inference

It presents a survey of the state of the art of specific topics of recent interest of Bayesian Networks including approximate propagation abductive inferences decision graphs and applications of influence In addition Advances in Bayesian Networks presents a careful selection of applications of probabilistic graphical models to various fields such as speech recognition meteorology or information retrieval

Principles of Knowledge

Representation and Reasoning A. G. Cohn, Fausto Giunchiglia, Bart Selman, 2000 *Hybrid Artificial Intelligent Systems, Part I* Manuel Graña Roday, Emilio Corchado, M. Teresa Garcia-Sebastian, 2010 The 5 International Conference on Hybrid Artificial Intelligence Systems HAIS 2010 has become a unique established and broad interdisciplinary forum for researchers and practitioners who are involved in developing and applying symbolic and sub symbolic techniques aimed at the construction of highly robust and reliable problem solving techniques and bringing the most relevant achievements in this field Overcoming the rigid encasing imposed by the arising orthodoxy in the field of artificial intelligence which has led to the

partition of researchers into so called areas or fields interest in hybrid intelligent systems is growing because they give freedom to design innovative solutions to the ever increasing complexities of real world problems Noise and uncertainty call for probabilistic often Bayesian methods while the huge amount of data in some cases asks for fast heuristic in the sense of suboptimal and ad hoc algorithms able to give answers in acceptable time frames High dimensionality demands linear and non linear dimensionality reduction and feature extraction algorithms while the imprecision and vagueness call for fuzzy reasoning and linguistic variable formalization Nothing impedes real life problems to mix difficulties presenting huge quantities of noisy vague and high dimensional data therefore the design of solutions must be able to resort to any tool of the trade to attack the problem Combining diverse paradigms poses challenging problems of computational and methodological interfacing of several previously incompatible approaches This is thus the setting of HAIS conference series and its increasing success is the proof of the vitality of this exciting field

Hybrid Artificial Intelligent Systems, Part I Manuel Grana Romay, M. Teresa Garcia Sebastian, 2010-06-14 The 5 International Conference on Hybrid Artificial Intelligence Systems HAIS 2010 has become a unique established and broad interdisciplinary forum for researchers and practitioners who are involved in developing and applying symbolic and sub symbolic techniques aimed at the construction of highly robust and reliable problem solving techniques and bringing the most relevant achievements in this field Overcoming the rigid encasing imposed by the arising orthodoxy in the field of artificial intelligence which has led to the partition of researchers into so called areas or fields interest in hybrid intelligent systems is growing because they give freedom to design innovative solutions to the ever increasing complexities of real world problems Noise and uncertainty call for probabilistic often Bayesian methods while the huge amount of data in some cases asks for fast heuristic in the sense of suboptimal and ad hoc algorithms able to give answers in acceptable time frames High dimensionality demands linear and non linear dimensionality reduction and feature extraction algorithms while the imprecision and vagueness call for fuzzy reasoning and linguistic variable formalization Nothing impedes real life problems to mix difficulties presenting huge quantities of noisy vague and high dimensional data therefore the design of solutions must be able to resort to any tool of the trade to attack the problem Combining diverse paradigms poses challenging problems of computational and methodological interfacing of several previously incompatible approaches This is thus the setting of HAIS conference series and its increasing success is the proof of the vitality of this exciting field

Advances in Case-Based Reasoning Enrico Blanzieri, Luigi Portinale, 2003-07-31 This book constitutes the refereed proceedings of the 5th European Workshop on Case Based Reasoning EWCBR 2000 held in Trento Italy in September 2000 The 40 revised full papers presented together with two invited contributions were carefully reviewed and selected for inclusion in the book All current issues in case based reasoning ranging from foundational and theoretical aspects to advanced applications in various fields are addressed

Applied Statistics for Network Biology Matthias Dehmer, Frank Emmert-Streib, Armin Graber, Armino Salvador, 2011-04-08 The book introduces to the reader a number of cutting edge

statistical methods which can be used for the analysis of genomic proteomic and metabolomic data sets In particular in the field of systems biology researchers are trying to analyze as many data as possible in a given biological system such as a cell or an organ The appropriate statistical evaluation of these large scale data is critical for the correct interpretation and different experimental approaches require different approaches for the statistical analysis of these data This book is written by biostatisticians and mathematicians but aimed as a valuable guide for the experimental researcher as well computational biologists who often lack an appropriate background in statistical analysis

Pattern Recognition Jesús Ariel Carrasco-Ochoa, José Francisco Martínez-Trinidad, Juan Humberto Sossa-Azuela, José Arturo Olvera López, Fazel Famili, 2015-06-03 This book constitutes the refereed proceedings of the 7th Mexican Conference on Pattern Recognition MCPR 2015 held in Mexico City Mexico in June 2015 The 30 revised full papers presented were carefully reviewed and selected from 63 submissions The papers are organized in topical sections on pattern recognition and artificial intelligence image processing and analysis robotics and computer vision natural language processing and recognition and applications of pattern recognition

Abstraction, Refinement and Proof for Probabilistic Systems Annabelle McIver, Carroll Morgan, 2005 Illustrates by example the typical steps necessary in computer science to build a mathematical model of any programming paradigm Presents results of a large and integrated body of research in the area of quantitative program logics

Advances in Physical Agents II Luis M. Bergasa, Manuel Ocaña, Rafael Barea, Elena López-Guillén, Pedro Revenga, 2020-11-02 The book reports on cutting edge Artificial Intelligence AI theories and methods aimed at the control and coordination of agents acting and moving in a dynamic environment It covers a wide range of topics relating to autonomous navigation localization and mapping mobile and social robots multiagent systems human robot interaction perception systems and deep learning techniques applied to the robotics Based on the 21st edition of the International Workshop of Physical Agents WAF 2020 held virtually on November 19 20 2020 from Alcal de Henares Madrid Spain this book offers a snapshot of the state of the art in the field of physical agents with a special emphasis on novel AI techniques in perception navigation and human robot interaction for autonomous systems

Real Life Applications of Soft Computing Anupam Shukla, Ritu Tiwari, Rahul Kala, 2010-05-21 Rapid advancements in the application of soft computing tools and techniques have proven valuable in the development of highly scalable systems and resulted in brilliant applications including those in biometric identification interactive voice response systems and data mining Although many resources on the subject adequately cover the theoretical

A Discipline of Multiprogramming Jayadev Misra, 2012-09-07 In this book a programming model is developed that addresses the fundamental issues of large scale programming unifying several concepts from database theory object oriented programming and designs of reactive systems The model and the associated theory have been christened Seuss The major goal of Seuss is to simplify multiprogramming To this end we separate the concern of concurrent implementation from the core program design problem A program execution is understood as a single

thread of control sequential executions of actions that are chosen according to some scheduling policy yet program implementation permits concurrent executions of multiple threads As a consequence it is possible to reason about the properties of a program from its single execution thread whereas an implementation may exploit the inherent concurrency for efficient execution

Ranking Queries on Uncertain Data Ming Hua,Jian Pei,2011-03-28 Uncertain data is inherent in many important applications such as environmental surveillance market analysis and quantitative economics research Due to the importance of those applications and rapidly increasing amounts of uncertain data collected and accumulated analyzing large collections of uncertain data has become an important task Ranking queries also known as top k queries are often natural and useful in analyzing uncertain data Ranking Queries on Uncertain Data discusses the motivations applications challenging problems the fundamental principles and the evaluation algorithms of ranking queries on uncertain data Theoretical and algorithmic results of ranking queries on uncertain data are presented in the last section of this book Ranking Queries on Uncertain Data is the first book to systematically discuss the problem of ranking queries on uncertain data

Set Theory for Computing Domenico Cantone,Eugenio Omodeo,Alberto Policriti,2013-06-29 Set Theory for Computing offers an up to date and comprehensive account of set oriented symbolic manipulation and automated reasoning methods Mastering today s variety of systems with crisp formal tools is a prerequisite for a high degree of control over sets and aggregates The many algorithmic methods and deductive techniques in this book offer readers a clear view of the use of set theoretic notions in such critical areas as specification of problems data types and solution methods algorithmic program verification and automated deduction The rigorous and largely self contained style of presentation addresses readers wanting to complement their set intuition with the ability to exploit it in specification and verification and master it by symbolic logically based techniques and methods This book will be of interest to graduates and researchers in theoretical computer science and computational logic and automated reasoning

Evolutionary Synthesis of Pattern Recognition Systems Bir Bhanu,Yingqiang Lin,Krzysztof Krawiec,2006-03-30 Evolutionary computation is becoming increasingly important for computer vision and pattern recognition and provides a systematic way of synthesis and analysis of object detection and recognition systems Incorporating learning into recognition systems will enable these systems to automatically generate new features on the fly and cleverly select a good subset of features according to the type of objects and images to which they are applied This unique monograph investigates evolutionary computational techniques such as genetic programming linear genetic programming coevolutionary genetic programming and genetic algorithms to automate the synthesis and analysis of object detection and recognition systems The purpose of incorporating learning into the system design is to avoid the time consuming process of feature generation and selection and to reduce the cost of building object detection and recognition systems Researchers professionals engineers and students working in computer vision pattern recognition target recognition machine learning evolutionary learning image processing knowledge discovery and data mining cybernetics robotics

automation and psychology will find this well developed and organized volume an invaluable resource

Programming Methodology Annabelle McIver, Carroll Morgan, 2012-12-06 The second half of the twentieth century saw an astonishing increase in computing power today computers are unbelievably faster than they used to be they have more memory they can communicate routinely with remote machines all over the world and they can fit on a desktop But despite this remarkable progress the voracity of modern applications and user expectations still pushes technology right to the limit As hardware engineers build ever more powerful machines so too must software become more sophisticated to keep up Medium to large scale programming projects need teams of people to pull everything together in an acceptable timescale The question of how programmers understand their own tasks and how they fit together with those of their colleagues to achieve the overall goal is a major concern Without that understanding it would be practically impossible to realise the commercial potential of our present day computing hardware That programming has been able to keep pace with the formidable advances in hardware is due to the similarly formidable advances in the principles for design construction and organisation of programs The efficacy of these methods and principles speaks for itself computer technology is all pervasive but even more telling is that they are beginning to feed back and influence hardware design as well The study of such methods is called programming methodology whose topics range over system and domain modelling concurrency object orientation program specification and validation That is the theme of this collection

Reverse Engineering of Object Oriented Code Paolo Tonella, Alessandra Potrich, 2007-03-06 During maintenance of a software system not all questions can be answered directly by resorting to otherwise reliable and accurate source code Reverse engineering aims at extracting abstract goal oriented views of the system able to summarize relevant properties of the program's computations Reverse Engineering of Object Oriented Code provides a comprehensive overview of several techniques that have been recently investigated in the field of reverse engineering The book describes the algorithms involved in recovering UML diagrams from the code and the techniques that can be adopted for their visualization This is important because the UML has become the standard for representing design diagrams in object oriented development A state of the art exposition on how to design object oriented code and accompanying algorithms that can be reverse engineered for greater flexibility in future code maintenance and alteration Essential object oriented concepts and programming methods for software engineers and researchers

Active Rules in Database Systems Norman W. Paton, 1999 A timely survey of the field from the point of view of some of the subject's most active researchers Divided into several parts organized by theme the book first covers the underlying methodology regarding active rules followed by formal specification rule analysis performance analysis and support tools It then moves on to the implementation of active rules in a number of commercial systems before concluding with applications and future directions for research All researchers in databases will find this a valuable overview of the topic

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