

**Learning to Solve
Problems by Searching
for Macro-operators
(Research Notes in
Artificial Intelligence)**

Korf, Richard

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Searching With Probabilities Research Notes In Artificial Intelligence Vol 3

Celine Rouveirol, Michele Sebag



Searching With Probabilities Research Notes In Artificial Intelligence Vol 3:

Artificial Intelligence for Advanced Problem Solving Techniques Vlahavas, Ioannis, Vrakas, Dimitris, 2008-01-31

One of the most important functions of artificial intelligence automated problem solving consists mainly of the development of software systems designed to find solutions to problems. These systems utilize a search space and algorithms in order to reach a solution. Artificial Intelligence for Advanced Problem Solving Techniques offers scholars and practitioners cutting edge research on algorithms and techniques such as search domain independent heuristics, scheduling, constraint satisfaction, optimization, configuration and planning, and highlights the relationship between the search categories and the various ways a specific application can be modeled and solved using advanced problem solving techniques. **Subject Guide to Books**

in Print, 2001 ICS Applied Artificial Intelligence Reporter, 1985 **Inference and Learning from Data: Volume 3** Ali

H. Sayed, 2022-12-22 This extraordinary three volume work written in an engaging and rigorous style by a world authority in the field provides an accessible comprehensive introduction to the full spectrum of mathematical and statistical techniques underpinning contemporary methods in data driven learning and inference. This final volume Learning builds on the foundational topics established in volume I to provide a thorough introduction to learning methods addressing techniques such as least squares methods, regularization, online learning, kernel methods, feedforward and recurrent neural networks, meta learning and adversarial attacks. A consistent structure and pedagogy is employed throughout this volume to reinforce student understanding with over 350 end of chapter problems including complete solutions for instructors, 280 figures, 100 solved examples, datasets and downloadable Matlab code. Supported by sister volumes Foundations and Inference and unique in its scale and depth, this textbook sequence is ideal for early career researchers and graduate students across many courses in signal processing, machine learning, data and inference. *Fuzzy Logic and the Semantic Web* Elie Sanchez, 2006-02-20

These are exciting times in the fields of Fuzzy Logic and the Semantic Web and this book will add to the excitement as it is the first volume to focus on the growing connections between these two fields. This book is expected to be a valuable aid to anyone considering the application of Fuzzy Logic to the Semantic Web because it contains a number of detailed accounts of these combined fields written by leading authors in several countries. The Fuzzy Logic field has been maturing for forty years. These years have witnessed a tremendous growth in the number and variety of applications with a real world impact across a wide variety of domains with humanlike behavior and reasoning. And we believe that in the coming years the Semantic Web will be a major field of applications of Fuzzy Logic. This book the first in the new series Capturing Intelligence shows the positive role Fuzzy Logic and more generally Soft Computing can play in the development of the Semantic Web filling a gap and facing a new challenge. It covers concepts, tools, techniques and applications exhibiting the usefulness and the necessity for using Fuzzy Logic in the Semantic Web. It finally opens the road to new systems with a high Web IQ. Most of today's Web content is suitable for human consumption. The Semantic Web is presented as an extension of the current web in which

information is given well defined meaning better enabling computers and people to work in cooperation For example within the Semantic Web computers will understand the meaning of semantic data on a web page by following links to specified ontologies But while the Semantic Web vision and research attracts attention as long as it will be used two valued based logical methods no progress will be expected in handling ill structured uncertain or imprecise information encountered in real world knowledge Fuzzy Logic and associated concepts and techniques more generally Soft Computing has certainly a positive role to play in the development of the Semantic Web Fuzzy Logic will not supposed to be the basis for the Semantic Web but its related concepts and techniques will certainly reinforce the systems classically developed within W3C In fact Fuzzy Logic cannot be ignored in order to bridge the gap between human understandable soft logic and machine readable hard logic None of the usual logical requirements can be guaranteed there is no centrally defined format for data no guarantee of truth for assertions made no guarantee of consistency To support these arguments this book shows how components of the Semantic Web like XML RDF Description Logics Conceptual Graphs Ontologies can be covered with in each case a Fuzzy Logic focus First volume to focus on the growing connections between Fuzzy Logic and the Semantic Web Keynote chapter by Lotfi Zadeh The Semantic Web is presently expected to be a major field of applications of Fuzzy Logic It fills a gap and faces a new challenge in the development of the Semantic Web It opens the road to new systems with a high Web IQ Contributed chapters by Fuzzy Logic leading experts **Bayesian Networks and Decision Graphs** Thomas Dyhre Nielsen, FINN VERNER JENSEN, 2009-03-17 Probabilistic graphical models and decision graphs are powerful modeling tools for reasoning and decision making under uncertainty As modeling languages they allow a natural specification of problem domains with inherent uncertainty and from a computational perspective they support efficient algorithms for automatic construction and query answering This includes belief updating finding the most probable explanation for the observed evidence detecting conflicts in the evidence entered into the network determining optimal strategies analyzing for relevance and performing sensitivity analysis The book introduces probabilistic graphical models and decision graphs including Bayesian networks and influence diagrams The reader is introduced to the two types of frameworks through examples and exercises which also instruct the reader on how to build these models The book is a new edition of Bayesian Networks and Decision Graphs by Finn V Jensen The new edition is structured into two parts The first part focuses on probabilistic graphical models Compared with the previous book the new edition also includes a thorough description of recent extensions to the Bayesian network modeling language advances in exact and approximate belief updating algorithms and methods for learning both the structure and the parameters of a Bayesian network The second part deals with decision graphs and in addition to the frameworks described in the previous edition it also introduces Markov decision processes and partially ordered decision problems The authors also provide a well founded practical introduction to Bayesian networks object oriented Bayesian networks decision trees influence diagrams and variants hereof and Markov decision processes give

practical advice on the construction of Bayesian networks decision trees and influence diagrams from domain knowledge give several examples and exercises exploiting computer systems for dealing with Bayesian networks and decision graphs present a thorough introduction to state of the art solution and analysis algorithms The book is intended as a textbook but it can also be used for self study and as a reference book

Algorithmic Learning Theory Nicolò Cesa-Bianchi, Masayuki Numao, Rüdiger Reischuk, 2003-08-03 This volume contains the papers presented at the 13th Annual Conference on Algorithmic Learning Theory ALT 2002 which was held in Lubbeck Germany during November 24-26 2002 The main objective of the conference was to provide an interdisciplinary forum discussing the theoretical foundations of machine learning as well as their relevance to practical applications The conference was colocated with the Fifth International Conference on Discovery Science DS 2002 The volume includes 26 technical contributions which were selected by the program committee from 49 submissions It also contains the ALT 2002 invited talks presented by Susumu Hayashi Kobe University Japan on Mathematics Based on Learning by John Shawe Taylor Royal Holloway University of London UK on On the Eigenspectrum of the Gram Matrix and Its Relationship to the Operator Eigenspectrum and by Ian H Witten University of Waikato New Zealand on Learning Structure from Sequences with Applications in a Digital Library joint invited talk with DS 2002 Furthermore this volume includes abstracts of the invited talks for DS 2002 presented by Gerhard Widmer Austrian Research Institute for Artificial Intelligence Vienna on In Search of the Horowitz Factor Interim Report on a Musical Discovery Project and by Rudolf Kruse University of Magdeburg Germany on Data Mining with Graphical Models The complete versions of these papers are published in the DS 2002 proceedings Lecture Notes in Artificial Intelligence Vol 2534 ALT has been awarding the E

Developing a 21st Century Global Library for Mathematics Research National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Planning a Global Library of the Mathematical Sciences, 2014-03-25 Like most areas of scholarship mathematics is a cumulative discipline new research is reliant on well organized and well curated literature Because of the precise definitions and structures within mathematics today's information technologies and machine learning tools provide an opportunity to further organize and enhance discoverability of the mathematics literature in new ways with the potential to significantly facilitate mathematics research and learning Opportunities exist to enhance discoverability directly via new technologies and also by using technology to capture important interactions between mathematicians and the literature for later sharing and reuse Developing a 21st Century Global Library for Mathematics Research discusses how information about what the mathematical literature contains can be formalized and made easier to express encode and explore Many of the tools necessary to make this information system a reality will require much more than indexing and will instead depend on community input paired with machine learning where mathematicians expertise can fill the gaps of automatization This report proposes the establishment of an organization the development of a set of platforms tools and services the deployment of an ongoing

applied research program to complement the development work and the mobilization and coordination of the mathematical community to take the first steps toward these capabilities The report recommends building on the extensive work done by many dedicated individuals under the rubric of the World Digital Mathematical Library as well as many other community initiatives Developing a 21st Century Global Library for Mathematics envisions a combination of machine learning methods and community based editorial effort that makes a significantly greater portion of the information and knowledge in the global mathematical corpus available to researchers as linked open data through a central organizational entity referred to in the report as the Digital Mathematics Library This report describes how such a library might operate discussing development and research needs role in facilitating discover and interaction and establishing partnerships with publishers

Advances in Data Mining Petra Perner, 2006-06-30 This book constitutes the refereed proceedings of the 6th Industrial Conference on Data Mining ICDM 2006 held in Leipzig Germany in July 2006 Presents 45 carefully reviewed and revised full papers organized in topical sections on data mining in medicine Web mining and logfile analysis theoretical aspects of data mining data mining in marketing mining signals and images and aspects of data mining and applications such as intrusion detection and more

Stochastic Local Search Holger H. Hoos, Thomas Stützle, 2005 Stochastic local search SLS algorithms are among the most prominent and successful techniques for solving computationally difficult problems Offering a systematic treatment of SLS algorithms this book examines the general concepts and specific instances of SLS algorithms and considers their development analysis and application

Automatic Design of Decision-Tree Induction Algorithms Rodrigo C. Barros, André C.P.L.F de Carvalho, Alex A. Freitas, 2015-02-04 Presents a detailed study of the major design components that constitute a top down decision tree induction algorithm including aspects such as split criteria stopping criteria pruning and the approaches for dealing with missing values Whereas the strategy still employed nowadays is to use a generic decision tree induction algorithm regardless of the data the authors argue on the benefits that a bias fitting strategy could bring to decision tree induction in which the ultimate goal is the automatic generation of a decision tree induction algorithm tailored to the application domain of interest For such they discuss how one can effectively discover the most suitable set of components of decision tree induction algorithms to deal with a wide variety of applications through the paradigm of evolutionary computation following the emergence of a novel field called hyper heuristics Automatic Design of Decision Tree Induction Algorithms would be highly useful for machine learning and evolutionary computation students and researchers alike

Proceedings of the 5th Australasian Conference on Interactive Entertainment Ruth Christie, 2008 IE 08 The 5th Australasian Conference on Interactive Entertainment Dec 03 2008 Dec 04 2008 Brisbane Australia You can view more information about this proceeding and all of ACM's other published conference proceedings from the ACM Digital Library <http://www.acm.org/dl>

Rough Sets and Current Trends in Computing Shusaku Tsumoto, Roman Slowiński, Jan Komorowski, Jerzy W. Grzymala-Busse, 2004-06-16 In recent years rough set theory has attracted the attention of many

researchers and practitioners all over the world who have contributed essentially to its development and applications. We are observing a growing research interest in the foundations of rough sets including the various logical mathematical and philosophical aspects of rough sets. Some relationships have already been established between rough sets and other approaches and also with a wide range of hybrid systems. As a result, rough sets are linked with decision system modeling and analysis of complex systems, fuzzy sets, neural networks, evolutionary computing, data mining and knowledge discovery, pattern recognition, machine learning and approximate reasoning. In particular, rough sets are used in probabilistic reasoning, granular computing including information granule calculi based on rough mereology, intelligent control, intelligent agent modeling, identification of autonomous systems and process specification. Methods based on rough set theory alone or in combination with other approaches have been discovered with a wide range of applications in such areas as acoustics, bioinformatics, business and finance, chemistry, computer engineering (e.g. data compression, digital image processing, digital signal processing), parallel and distributed computer systems, sensor fusion, fractal engineering, decision analysis and systems, economics, electrical engineering (e.g. control, signal analysis, power systems), environmental studies, informatics, medicine, molecular biology, musicology, neurology, robotics, social science, software engineering, spatial visualization, Web engineering and Web mining.

Statistical Relational Artificial Intelligence Luc De Raedt, Kristian Kersting, Sriraam Natarajan, David Poole, 2022-05-31. An intelligent agent interacting with the real world will encounter individual people, courses, test results, drugs, prescriptions, chairs, boxes, etc. and needs to reason about properties of these individuals and relations among them as well as cope with uncertainty. Uncertainty has been studied in probability theory and graphical models and relations have been studied in logic in particular in the predicate calculus and its extensions. This book examines the foundations of combining logic and probability into what are called relational probabilistic models. It introduces representations, inference and learning techniques for probability logic and their combinations. The book focuses on two representations in detail: Markov logic networks, a relational extension of undirected graphical models, and weighted first order predicate calculus formulae, and Problog, a probabilistic extension of logic programs that can also be viewed as a Turing complete relational extension of Bayesian networks.

Recent Advances in Computational Sciences Palle E. T. Jørgensen, Xiaoping Shen, Chi Wang Shu, 2008. This book presents state of the art lectures delivered by international academic and industrial experts in the field of computational science and its education, covering a wide spectrum from theory to practice. Topics include new developments in finite element method (FEM), finite volume method and Spline theory, such as Moving Mesh Methods, Galerkin and Discontinuous Galerkin Schemes, Shape Gradient Methods, Mixed FEMs, Superconvergence techniques and Fourier spectral approximations with applications in multidimensional fluid dynamics, Maxwell equations in discrepancy media and phase field equations. It also discusses some interesting topics related to Stokes equations, Schrödinger equations, wavelet analysis and approximation theory. Contemporary teaching issues in curriculum reform also form an integral part of

the book This book will therefore be of significant interest and value to all graduates research scientists and practitioners facing complex computational problems Administrators and policymakers will find it is an addition to their mathematics curriculum reform libraries *Research in Education* ,1973 *Bayesian Optimization* Roman Garnett,2023-02-09 A comprehensive introduction to Bayesian optimization that starts from scratch and carefully develops all the key ideas along the way *Inductive Logic Programming* Celine Rouveirol,Michele Sebag,2001-08-29 This book constitutes the refereed proceedings of the 11th International Conference on Inductive Logic Programming ILP 2001 held in Strasbourg France in September 2001 The 21 revised full papers presented were carefully reviewed and selected from 37 submissions Among the topics addressed are data mining issues for multi relational databases supervised learning inductive inference Bayesian reasoning learning refinement operators neural network learning constraint satisfaction genetic algorithms statistical machine learning transductive inference etc **Probability Logics** Zoran Ognjanović,Miodrag Rašković,Zoran Marković,2016-10-24 The aim of this book is to provide an introduction to probability logic based formalization of uncertain reasoning The authors primary interest is mathematical techniques for infinitary probability logics used to obtain results about proof theoretical and model theoretical issues such as axiomatizations completeness compactness and decidability including solutions of some problems from the literature An extensive bibliography is provided to point to related work and this book may serve as a basis for further research projects as a reference for researchers using probability logic and also as a textbook for graduate courses in logic **Integrated Imaging of the Earth** Max Moorkamp,Peter G. Lelièvre,Niklas Linde,Amir Khan,2016-03-23 Reliable and detailed information about the Earth s subsurface is of crucial importance throughout the geosciences Quantitative integration of all available geophysical and geological data helps to make Earth models more robust and reliable The aim of this book is to summarize and synthesize the growing literature on combining various types of geophysical and other geoscientific data The approaches that have been developed to date encompass joint inversion cooperative inversion and statistical post inversion analysis methods each with different benefits and assumptions Starting with the foundations of inverse theory this book systematically describes the mathematical and theoretical aspects of how to best integrate different geophysical datasets with geological prior understanding and other complimentary data This foundational basis is followed by chapters that demonstrate the diverse range of applications for which integrated methods have been used to date These range from imaging the hydrogeological properties of the near surface to natural resource exploration and probing the composition of the lithosphere and the deep Earth Each chapter is written by leading experts in the field which makes this book the definitive reference on integrated imaging of the Earth Highlights of this volume include Complete coverage of the theoretical foundations of integrated imaging approaches from inverse theory to different coupling methods and quantitative evaluation of the resulting models Comprehensive overview of current applications of integrated imaging including hydrological investigations natural resource exploration and imaging the deep

Earth Detailed case studies of integrated approaches providing valuable guidance for both experienced users and researchers new to joint inversion This volume will be a valuable resource for graduate students academics industry practitioners and researchers who are interested in using or developing integrated imaging approaches

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