

MACHINE LEARNING AND KNOWLEDGE ACQUISITION

INTEGRATED APPROACHES



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Machine Learning And Knowledge Acquisition Integrated Approaches

Franz Schmalhofer, Gerhard Strube



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Machine Learning and Knowledge Acquisition Gheorghe Tecuci, Yves Kodratoff, 1995 Currently both fields are moving towards an integrated approach using machine learning techniques to automate knowledge acquisition from experts and knowledge acquisition techniques to guide and assist the learning process

Machine Learning & Knowledge Acquisition Gheorghe Tecuci, 1995

Machine Learning Methods for Commonsense Reasoning Processes: Interactive Models Naidenova, Xenia, 2009-10-31 This book suggests that classification is a key to human commonsense reasoning and transforms traditional considerations of data and knowledge communications presenting an effective classification of logical rules used in the modeling of commonsense reasoning

Building Intelligent Agents Gheorghe Tecuci, 1998-06-23 Building Intelligent Agents is unique in its comprehensive coverage of the subject The first part of the book presents an original theory for building intelligent agents and a methodology and tool that implement the theory The second part of the book presents complex and detailed case studies of building different types of agents an educational assessment agent a statistical analysis assessment and support agent an engineering design assistant and a virtual military commander Also featured in this book is Disciple a toolkit for building interactive agents which function in much the same way as a human apprentice Disciple based agents can reason both with incomplete information but also with information that is potentially incorrect This approach in which the agent learns its behavior from its teacher integrates many machine learning and knowledge acquisition techniques taking advantage of their complementary strengths to compensate for each others weakness As a consequence it significantly reduces or even eliminates the involvement of a knowledge engineer in the process of building an intelligent agent

Expert Systems Cornelius T. Leondes, 2001-09-26 This six volume set presents cutting edge advances and applications of expert systems Because expert systems combine the expertise of engineers computer scientists and computer programmers each group will benefit from buying this important reference work An expert system is a knowledge based computer system that emulates the decision making ability of a human expert The primary role of the expert system is to perform appropriate functions under the close supervision of the human whose work is supported by that expert system In the reverse this same expert system can monitor and double check the human in the performance of a task Human computer interaction in our highly complex world requires the development of a wide array of expert systems Expert systems techniques and applications are presented for a diverse array of topics including Experimental design and decision support The integration of machine learning with knowledge acquisition for the design of expert systems Process planning in design and manufacturing systems and process control applications Knowledge discovery in large scale knowledge bases Robotic systems Geographical information systems Image analysis recognition and interpretation Cellular automata methods for pattern recognition Real time fault tolerant control systems CAD based vision systems in pattern matching processes Financial systems Agricultural applications Medical diagnosis

Knowledge Engineering Gheorghe

Tecuci,Dorin Marcu,Mihai Boicu,David A. Schum,2016-09-08 Using robust software this book focuses on learning assistants for evidence based reasoning that learn complex problem solving from humans *Data Mining and Knowledge Discovery Approaches Based on Rule Induction Techniques* Evangelos Triantaphyllou,Giovanni Felici,2006-09-10 2 Some Background Information 49 3 Definitions and Terminology 52 4 The One Clause at a Time OCAT Approach 54 4 1 Data Binarization 54 4 2 The One Clause at a Time OCAT Concept 58 4 3 A Branch and Bound Approach for Inferring Clauses 59 4 4 Inference of the Clauses for the Illustrative Example 62 4 5 A Polynomial Time Heuristic for Inferring Clauses 65 5 A Guided Learning Approach 70 6 The Rejectability Graph of Two Collections of Examples 72 6 1 The Definition of the Rejectability Graph 72 6 2 Properties of the Rejectability Graph 74 6 3 On the Minimum Clique Cover of the Rejectability Graph 76 7 Problem Decomposition 77 7 1 Connected Components 77 7 2 Clique Cover 78 8 An Example of Using the Rejectability Graph 79 9 Conclusions 82 References 83 Author's Biographical Statement 87 Chapter 3 AN INCREMENTAL LEARNING ALGORITHM FOR INFERRING LOGICAL RULES FROM EXAMPLES IN THE FRAMEWORK OF THE COMMON REASONING PROCESS by X Naidenova 89 1 Introduction 90 2 A Model of Rule Based Logical Inference 96 2 1 Rules Acquired from Experts or Rules of the First Type 97 2 2 Structure of the Knowledge Base 98 2 3 Reasoning Operations for Using Logical Rules of the First Type 100 2 4 An Example of the Reasoning Process 102 3 Inductive Inference of Implicative Rules From Examples 103 3

Intelligent Systems and Interfaces Horia-Nicolai Teodorescu,Daniel Mlynek,Abraham Kandel,Hans-Jürgen Zimmermann,2012-12-06 The field of intelligent interfaces and systems has seen a fast growth last decade An impressive number of papers conference tutorials and volumes were devoted to the topic Ten years ago intelligent systems constituted a rather exotic topic and many were skeptic that such systems amount to more than a nice name Nowadays intelligent systems represent a powerful tool in many applications in all industrial fields Their development evolved on both the horizontal dimension with a constantly increasing number of applications and on the vertical dimension by including more capabilities going from sensoric to neurofuzzy systems intelligent agents speech and image understanding and decision making in complex environments The domain constituted by the intelligent systems is now too large to be covered in a single volume Consequently the Editors considered a balance between several selected sub fields to insure the unity of the volume yet allowing a large enough horizon and a consistent understanding of the entire field including real life applications The volume represents a comprehensive coverage of the field including fundamental aspects software sensors and hardware related issues Moreover the contributors to this volume offer beyond a systematic overview of intelligent interfaces and systems deep practical knowledge in building and using intelligent systems in various applications A special emphasis is on specific aspects and requirements in applications In addition the second Editor proposes two chapters addressing the management of projects dealing with intelligent systems *Software Reuse in the Emerging Cloud Computing Era* Yang, Hongji,Liu, Xiaodong,2012-04-30 This book clarifies the present fast advancing literature of the current state of art and knowledge in the

areas of the development and reuse of reusable assets in emerging software systems and applications Provided by publisher
Machine Learning and Its Applications Georgios Paliouras,Vangelis Karkaletsis,Constantine D. Spyropoulos,2003-06-29

In recent years machine learning has made its way from artificial intelligence into areas of administration commerce and industry Data mining is perhaps the most widely known demonstration of this migration complemented by less publicized applications of machine learning like adaptive systems in industry financial prediction medical diagnosis and the construction of user profiles for Web browsers This book presents the capabilities of machine learning methods and ideas on how these methods could be used to solve real world problems The first ten chapters assess the current state of the art of machine learning from symbolic concept learning and conceptual clustering to case based reasoning neural networks and genetic algorithms The second part introduces the reader to innovative applications of ML techniques in fields such as data mining knowledge discovery human language technology user modeling data analysis discovery science agent technology finance etc

Engineering Knowledge in the Age of the Semantic Web Enrico Motta,2004-10-05 This book constitutes the refereed proceedings of the 14th International Conference on Knowledge Engineering and Knowledge Management EKAW 2004 held in Whittleburg Hall UK in October 2004 The 30 revised full papers and 21 revised short papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on ontologies mappings and translations ontologies problems and applications ontologies trust and e learning ontology maintenance applications to medicine portals knowledge acquisition Web services and problem solving and searching browsing and knowledge acquisition

Advances in Medical Informatics J. M. Noothoven van Goor,Jaap Noothoven van Goor,Jens Pihlkjaer Christensen,1992 Numerous experts in hospitals universities research institutes industry and health agencies responded to the call of the commission of the European Communities for project proposals in the field of research and development of medical informatics the AIM Exploratory Action AIM is the acronym for Advanced Informatics in Medicine The main objective of the AIM Programme is to further the usage of information technology and telecommunications in health care in the Community

Contemporary Knowledge Engineering and Cognition Franz Schmalhofer,Gerhard Strube,1992-08-12 This book has its source in the question of whether any knowledge engineering tools can be applied or analyzed in cognition research and what insights and methods of cognitive science might be relevant for knowledge engineers It presents the proceedings of a workshop organized by the Special Interest Groups Cognition and Knowledge Engineering of the German Society for Informatics held in February 1992 in Kaiserslautern The book is structured into three parts The first part contrasts work in knowledge engineering with approaches from the side of the soft sciences The second part deals with case based approaches in expert systems Cognition research and the cognitive adequacy of expert systems are discussed in the third part Contributions from Canada England France Switzerland and the USA demonstrate how knowledge engineering and cognitive science are woven together internationally

Advances in Machine Learning and Cybernetics Daniel S.

Yeung,Zhi-Qiang Liu,Xi-Zhao Wang,Hong Yan,2006-05-05 This book constitutes the thoroughly refereed post proceedings of the 4th International Conference on Machine Learning and Cybernetics ICMLC 2005 held in Guangzhou China in August 2005 The 114 revised full papers of this volume are organized in topical sections on agents and distributed artificial intelligence control data mining and knowledge discovery fuzzy information processing learning and reasoning machine learning applications neural networks and statistical learning methods pattern recognition vision and image processing

Intelligence Analysis as Discovery of Evidence, Hypotheses, and Arguments Gheorghe Tecuci,David A.

Schum,Dorin Marcu,Mihai Boicu,2016-08-30 Using a flexible software system this book teaches evidential and inferential issues used in drawing conclusions from masses of evidence *Scandinavian Conference on Artificial Intelligence 89* Hannu Jaakkola,S. Linnainmaa,1989 Simulation and Computational Red Teaming for Problem Solving Jiangjun Tang,George Leu,Hussein A. Abbass,2019-10-24 An authoritative guide to computer simulation grounded in a multi disciplinary approach for solving complex problems Simulation and Computational Red Teaming for Problem Solving offers a review of computer simulation that is grounded in a multi disciplinary approach The authors present the theoretical foundations of simulation and modeling paradigms from the perspective of an analyst The book provides the fundamental background information needed for designing and developing consistent and useful simulations In addition to this basic information the authors explore several advanced topics The book s advanced topics demonstrate how modern artificial intelligence and computational intelligence concepts and techniques can be combined with various simulation paradigms for solving complex and critical problems Authors examine the concept of Computational Red Teaming to reveal how the combined fundamentals and advanced techniques are used successfully for solving and testing complex real world problems This important book Demonstrates how computer simulation and Computational Red Teaming support each other for solving complex problems Describes the main approaches to modeling real world phenomena and embedding these models into computer simulations Explores how a number of advanced artificial intelligence and computational intelligence concepts are used in conjunction with the fundamental aspects of simulation Written for researchers and students in the computational modelling and data analysis fields Simulation and Computational Red Teaming for Problem Solving covers the foundation and the standard elements of the process of building a simulation and explores the simulation topic with a modern research approach

Information Systems and Data Analysis Hans-Hermann Bock,Wolfgang Lenski,Michael M. Richter,2013-03-13

Proceedings of the 17th Annual Conference of the Gesellschaft f r Klassifikation e V University of Kaiserslautern March 3 5 1993 **Knowledge Acquisition, Modeling and Management** Enric Plaza,1997-09-24 This book constitutes the refereed proceedings of the 4th International Symposium on Solving Irregularly Structured Problems in Parallel IRREGULAR 97 held in Paderborn Germany in June 1997 The 18 revised full papers presented were carefully selected by the program committee for inclusion in the volume also included are full papers by the five invited speakers Among the topics covered are discrete

algorithms randomized methods and approximation algorithms implementations programming environments systems and applications and scheduling and load balancing *Machine Learning: Concepts, Methodologies, Tools and Applications* Management Association, Information Resources, 2011-07-31 This reference offers a wide ranging selection of key research in a complex field of study discussing topics ranging from using machine learning to improve the effectiveness of agents and multi agent systems to developing machine learning software for high frequency trading in financial markets Provided by publishe

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