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Machine Learning William W. Cohen, Haym Hirsh, 1994 Presents 42 papers from the July 1994 conference Topics covered include improving accuracy of incorrect domain theories greedy attribute selection boosting and other machine learning algorithms incremental reduced error pruning learning disjunctive concepts using genetic algorithms and a Baye

Handbook of Research on Machine Learning Applications and Trends: Algorithms, Methods, and Techniques Olivas, Emilio Soria, Guerrero, José David Martín, Martínez-Sober, Marcelino, Magdalena-Benedito, Jose Rafael, Serrano López, Antonio José, 2009-08-31 This book investigates machine learning ML one of the most fruitful fields of current research both in the proposal of new techniques and theoretic algorithms and in their application to real life problems Provided by publisher

Combining Artificial Neural Nets Amanda J.C. Sharkey, 2012-12-06 The past decade could be seen as the heyday of neurocomputing in which the capabilities of monolithic nets have been well explored and exploited The question then is where do we go from here A logical next step is to examine the potential offered by combinations of artificial neural nets and it is that step that the chapters in this volume represent Intuitively it makes sense to look at combining ANNs Clearly complex biological systems and brains rely on modularity Similarly the principles of modularity and of reliability through redundancy can be found in many disparate areas from the idea of decision by jury through to hardware redundancy in aeroplanes and the advantages of modular design and reuse advocated by object oriented programmers And it is not surprising to find that the same principles can be usefully applied in the field of neurocomputing as well although finding the best way of adapting them is a subject of ongoing research *Handbook of Research on Artificial Immune Systems and Natural Computing: Applying Complex Adaptive Technologies* Mo, Hongwei, 2009-04-30 This book offers new ideas and recent developments in Natural Computing especially on artificial immune systems Provided by publisher

Reinforcement Learning Marco Wiering, Martijn van Otterlo, 2012-03-05 Reinforcement learning encompasses both a science of adaptive behavior of rational beings in uncertain environments and a computational methodology for finding optimal behaviors for challenging problems in control optimization and adaptive behavior of intelligent agents As a field reinforcement learning has progressed tremendously in the past decade The main goal of this book is to present an up to date series of survey articles on the main contemporary sub fields of reinforcement learning This includes surveys on partially observable environments hierarchical task decompositions relational knowledge representation and predictive state representations Furthermore topics such as transfer evolutionary methods and continuous spaces in reinforcement learning are surveyed In addition several chapters review reinforcement learning methods in robotics in games and in computational neuroscience In total seventeen different subfields are presented by mostly young experts in those areas and together they truly represent a state of the art of current reinforcement learning research Marco Wiering works at the artificial intelligence department of the University of Groningen in the Netherlands He has published extensively on various reinforcement

learning topics Martijn van Otterlo works in the cognitive artificial intelligence group at the Radboud University Nijmegen in The Netherlands He has mainly focused on expressive knowledge representation in reinforcement learning settings

Support Vector Machines for Pattern Classification Shigeo Abe, 2005-07-29 Support vector machines SVMs were originally formulated for two class classification problems and have been accepted as a powerful tool for developing pattern classification and function approximations systems This book provides a unique perspective of the state of the art in SVMs by taking the only approach that focuses on classification rather than covering the theoretical aspects The book clarifies the characteristics of two class SVMs through their extensive analysis presents various useful architectures for multiclass classification and function approximation problems and discusses kernel methods for improving generalization ability of conventional neural networks and fuzzy systems Ample illustrations examples and computer experiments are included to help readers understand the new ideas and their usefulness This book supplies a comprehensive resource for the use of SVMs in pattern classification and will be invaluable reading for researchers developers students in academia and industry

Reinforcement Learning Richard S. Sutton, Andrew G. Barto, 1998-02-26 Richard Sutton and Andrew Barto provide a clear and simple account of the key ideas and algorithms of reinforcement learning Their discussion ranges from the history of the field s intellectual foundations to the most recent developments and applications Reinforcement learning one of the most active research areas in artificial intelligence is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives when interacting with a complex uncertain environment In Reinforcement Learning Richard Sutton and Andrew Barto provide a clear and simple account of the key ideas and algorithms of reinforcement learning Their discussion ranges from the history of the field s intellectual foundations to the most recent developments and applications The only necessary mathematical background is familiarity with elementary concepts of probability The book is divided into three parts Part I defines the reinforcement learning problem in terms of Markov decision processes Part II provides basic solution methods dynamic programming Monte Carlo methods and temporal difference learning Part III presents a unified view of the solution methods and incorporates artificial neural networks eligibility traces and planning the two final chapters present case studies and consider the future of reinforcement learning

Data Mining with Decision Trees Lior Rokach, Oded Z. Maimon, 2008 This is the first comprehensive book dedicated entirely to the field of decision trees in data mining and covers all aspects of this important technique Decision trees have become one of the most powerful and popular approaches in knowledge discovery and data mining the science and technology of exploring large and complex bodies of data in order to discover useful patterns The area is of great importance because it enables modeling and knowledge extraction from the abundance of data available Both theoreticians and practitioners are continually seeking techniques to make the process more efficient cost effective and accurate Decision trees originally implemented in decision theory and statistics are highly effective tools in other areas such as data mining text

mining information extraction machine learning and pattern recognition This book invites readers to explore the many benefits in data mining that decision trees offer Self explanatory and easy to follow when compacted Able to handle a variety of input data nominal numeric and textual Able to process datasets that may have errors or missing values High predictive performance for a relatively small computational effort Available in many data mining packages over a variety of platforms Useful for various tasks such as classification regression clustering and feature selection Decentralised Reinforcement Learning in Markov Games Peter Vrancx,2010 Introducing a new approach to multiagent reinforcement learning and distributed artificial intelligence this guide shows how classical game theory can be used to compose basic learning units This approach to creating agents has the advantage of leading to powerful yet intuitively simple algorithms that can be analyzed The setup is demonstrated here in a number of different settings with a detailed analysis of agent learning behaviors provided for each A review of required background materials from game theory and reinforcement learning is also provided along with an overview of related multiagent learning methods **Data Mining and Knowledge Discovery Handbook** Oded Maimon,Lior Rokach,2010-09-10 Knowledge Discovery demonstrates intelligent computing at its best and is the most desirable and interesting end product of Information Technology To be able to discover and to extract knowledge from data is a task that many researchers and practitioners are endeavoring to accomplish There is a lot of hidden knowledge waiting to be discovered this is the challenge created by today s abundance of data Data Mining and Knowledge Discovery Handbook Second Edition organizes the most current concepts theories standards methodologies trends challenges and applications of data mining DM and knowledge discovery in databases KDD into a coherent and unified repository This handbook first surveys then provides comprehensive yet concise algorithmic descriptions of methods including classic methods plus the extensions and novel methods developed recently This volume concludes with in depth descriptions of data mining applications in various interdisciplinary industries including finance marketing medicine biology engineering telecommunications software and security Data Mining and Knowledge Discovery Handbook Second Edition is designed for research scientists libraries and advanced level students in computer science and engineering as a reference This handbook is also suitable for professionals in industry for computing applications information systems management and strategic research management **Learning Language in Logic** James Cussens,Saso Dzeroski,2000-09-27 The two volume set LNCS 1842 1843 constitutes the refereed proceedings of the 6th European Conference on Computer Vision ECCV 2000 held in Dublin Ireland in June July 2000 The 116 revised full papers presented were carefully selected from a total of 266 submissions The two volumes offer topical sections on recognitions and modelling stereoscopic vision texture and shading shape structure from motion image features active real time and robot vision segmentation and grouping vision systems engineering and evaluation calibration medical image understanding and visual motion Adaptive Representations for Reinforcement Learning Shimon Whiteson,2010-07-10 This book presents new algorithms for reinforcement learning a form

of machine learning in which an autonomous agent seeks a control policy for a sequential decision task Since current methods typically rely on manually designed solution representations agents that automatically adapt their own representations have the potential to dramatically improve performance This book introduces two novel approaches for automatically discovering high performing representations The first approach synthesizes temporal difference methods the traditional approach to reinforcement learning with evolutionary methods which can learn representations for a broad class of optimization problems This synthesis is accomplished by customizing evolutionary methods to the on line nature of reinforcement learning and using them to evolve representations for value function approximators The second approach automatically learns representations based on piecewise constant approximations of value functions It begins with coarse representations and gradually refines them during learning analyzing the current policy and value function to deduce the best refinements This book also introduces a novel method for devising input representations This method addresses the feature selection problem by extending an algorithm that evolves the topology and weights of neural networks such that it evolves their inputs too In addition to introducing these new methods this book presents extensive empirical results in multiple domains demonstrating that these techniques can substantially improve performance over methods with manual representations

Lazy Learning David W. Aha, 2013-06-29 This edited collection describes recent progress on lazy learning a branch of machine learning concerning algorithms that defer the processing of their inputs reply to information requests by combining stored data and typically discard constructed replies It is the first edited volume in AI on this topic whose many synonyms include instance based memory based exemplar based and local learning and whose topic intersects case based reasoning and edited k nearest neighbor classifiers It is intended for AI researchers and students interested in pursuing recent progress in this branch of machine learning but due to the breadth of its contributions it should also interest researchers and practitioners of data mining case based reasoning statistics and pattern recognition

Feature Selection for Knowledge Discovery and Data Mining Huan Liu, Hiroshi Motoda, 2012-12-06 As computer power grows and data collection technologies advance a plethora of data is generated in almost every field where computers are used The computer generated data should be analyzed by computers without the aid of computing technologies it is certain that huge amounts of data collected will not ever be examined let alone be used to our advantages Even with today's advanced computer technologies e.g. machine learning and data mining systems discovering knowledge from data can still be fiendishly hard due to the characteristics of the computer generated data Taking its simplest form raw data are represented in feature values The size of a dataset can be measured in two dimensions number of features N and number of instances P Both N and P can be enormously large This enormity may cause serious problems to many data mining systems Feature selection is one of the long existing methods that deal with these problems Its objective is to select a minimal subset of features according to some reasonable criteria so that the original task can be achieved equally well if not better By choosing

a minimal subset of features irrelevant and redundant features are removed according to the criterion When N is reduced the data space shrinks and in a sense the data set is now a better representative of the whole data population If necessary the reduction of N can also give rise to the reduction of P by eliminating duplicates

Data Mining and Knowledge Discovery Handbook Oded Z. Maimon, Oded Maimon, Lior Rokach, 2005 Organizes major concepts theories methodologies trends challenges and applications of data mining DM and knowledge discovery in databases KDD This book provides algorithmic descriptions of classic methods and also suitable for professionals in fields such as computing applications information systems management and more

Advanced Knowledge Application in Practice Igor Fuerstner, 2010-11-02 The integration and interdependency of the world economy leads towards the creation of a global market that offers more opportunities but is also more complex and competitive than ever before Therefore widespread research activity is necessary if one is to remain successful on the market This book is the result of research and development activities from a number of researchers worldwide covering concrete fields of research

Journal of Artificial Intelligence Research Steven Minton, 1998-12
Research Anthology on Agile Software, Software Development, and Testing Management Association, Information Resources, 2021-11-26 Software development continues to be an ever evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient productive and cost effective Agile practices particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software The Research Anthology on Agile Software Software Development and Testing is a comprehensive resource on the emerging trends of software development and testing This text discusses the newest developments in agile software and its usage spanning multiple industries Featuring a collection of insights from diverse authors this research anthology offers international perspectives on agile software Covering topics such as global software engineering knowledge management and product development this comprehensive resource is valuable to software developers software engineers computer engineers IT directors students managers faculty researchers and academicians

Multi-Agent Coordination Arup Kumar Sadhu, Amit Konar, 2020-12-03 Discover the latest developments in multi robot coordination techniques with this insightful and original resource Multi Agent Coordination A Reinforcement Learning Approach delivers a comprehensive insightful and unique treatment of the development of multi robot coordination algorithms with minimal computational burden and reduced storage requirements when compared to traditional algorithms The accomplished academics engineers and authors provide readers with both a high level introduction to and overview of multi robot coordination and in depth analyses of learning based planning algorithms You ll learn about how to accelerate the exploration of the team goal and alternative approaches to speeding up the convergence of TMAQL by identifying the preferred joint action for the team The authors also propose novel approaches to consensus Q learning that address the

equilibrium selection problem and a new way of evaluating the threshold value for uniting empires without imposing any significant computation overhead Finally the book concludes with an examination of the likely direction of future research in this rapidly developing field Readers will discover cutting edge techniques for multi agent coordination including An introduction to multi agent coordination by reinforcement learning and evolutionary algorithms including topics like the Nash equilibrium and correlated equilibrium Improving convergence speed of multi agent Q learning for cooperative task planning Consensus Q learning for multi agent cooperative planning The efficient computing of correlated equilibrium for cooperative q learning based multi agent planning A modified imperialist competitive algorithm for multi agent stick carrying applications Perfect for academics engineers and professionals who regularly work with multi agent learning algorithms Multi Agent Coordination A Reinforcement Learning Approach also belongs on the bookshelves of anyone with an advanced interest in machine learning and artificial intelligence as it applies to the field of cooperative or competitive robotics

Boosting Robert E. Schapire, Yoav Freund, 2014-01-10 An accessible introduction and essential reference for an approach to machine learning that creates highly accurate prediction rules by combining many weak and inaccurate ones Boosting is an approach to machine learning based on the idea of creating a highly accurate predictor by combining many weak and inaccurate rules of thumb A remarkably rich theory has evolved around boosting with connections to a range of topics including statistics game theory convex optimization and information geometry Boosting algorithms have also enjoyed practical success in such fields as biology vision and speech processing At various times in its history boosting has been perceived as mysterious controversial even paradoxical This book written by the inventors of the method brings together organizes simplifies and substantially extends two decades of research on boosting presenting both theory and applications in a way that is accessible to readers from diverse backgrounds while also providing an authoritative reference for advanced researchers With its introductory treatment of all material and its inclusion of exercises in every chapter the book is appropriate for course use as well The book begins with a general introduction to machine learning algorithms and their analysis then explores the core theory of boosting especially its ability to generalize examines some of the myriad other theoretical viewpoints that help to explain and understand boosting provides practical extensions of boosting for more complex learning problems and finally presents a number of advanced theoretical topics Numerous applications and practical illustrations are offered throughout

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