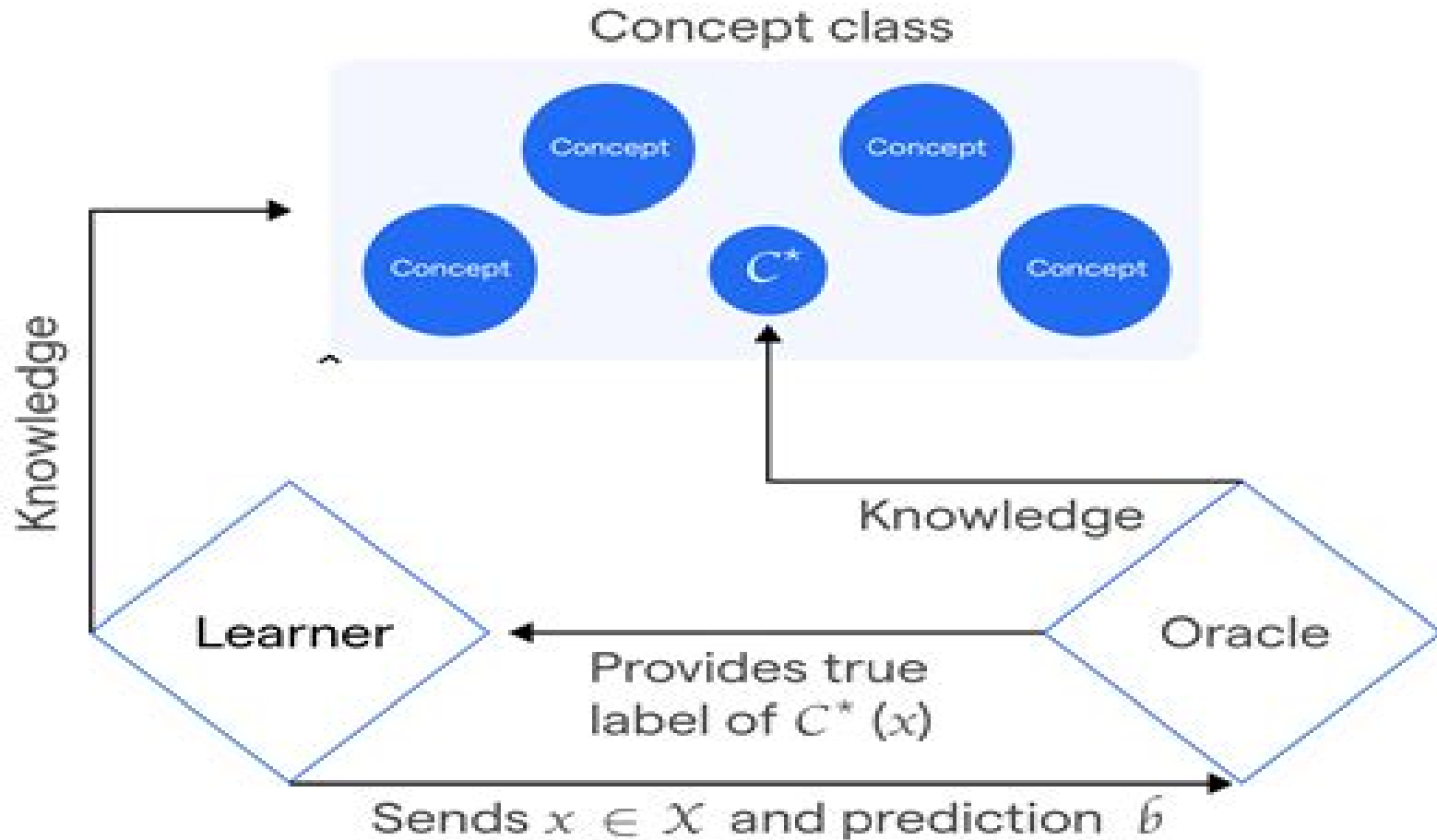


Computational Learning Theory



An Introduction To Computational Learning Theory

Miroslav Kubat



An Introduction To Computational Learning Theory:

An Introduction to Computational Learning Theory Michael J. Kearns, Umesh Vazirani, 1994-08-15 Emphasizing issues of computational efficiency Michael Kearns and Umesh Vazirani introduce a number of central topics in computational learning theory for researchers and students in artificial intelligence neural networks theoretical computer science and statistics Emphasizing issues of computational efficiency Michael Kearns and Umesh Vazirani introduce a number of central topics in computational learning theory for researchers and students in artificial intelligence neural networks theoretical computer science and statistics Computational learning theory is a new and rapidly expanding area of research that examines formal models of induction with the goals of discovering the common methods underlying efficient learning algorithms and identifying the computational impediments to learning Each topic in the book has been chosen to elucidate a general principle which is explored in a precise formal setting Intuition has been emphasized in the presentation to make the material accessible to the nontheoretician while still providing precise arguments for the specialist This balance is the result of new proofs of established theorems and new presentations of the standard proofs The topics covered include the motivation definitions and fundamental results both positive and negative for the widely studied L G Valiant model of Probably Approximately Correct Learning Occam's Razor which formalizes a relationship between learning and data compression the Vapnik Chervonenkis dimension the equivalence of weak and strong learning efficient learning in the presence of noise by the method of statistical queries relationships between learning and cryptography and the resulting computational limitations on efficient learning reducibility between learning problems and algorithms for learning finite automata from active experimentation

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learning and data compression the Vapnik Chervonenkis dimension the equivalence of weak and strong learning efficient learning in the presence of noise by the method of statistical queries relationships between learning and cryptography and the resulting computational limitations on efficient learning reducibility between learning problems and algorithms for learning finite automata from active experimentation Computational Learning Theory Martin Anthony, 1997 Concepts hypotheses learning algorithms Boolean formulae and representations Probabilistic learning Consistent algorithms and learnability Efficient learning The VC dimension Learning and the VC dimension VC dimension and efficient learning Linear threshold networks Computational Learning Theory Martin Anthony, N. Biggs, 1997-02-27 Computational learning theory is a subject which has been advancing rapidly in the last few years The authors concentrate on the probably approximately correct model of learning and gradually develop the ideas of efficiency considerations Finally applications of the theory to artificial neural networks are considered Many exercises are included throughout and the list of references is extensive This volume is relatively self contained as the necessary background material from logic probability and complexity theory is included It will therefore form an introduction to the theory of computational learning suitable for a broad spectrum of graduate students from theoretical computer science and mathematics Machine Learning Balas K. Natarajan, 2014-06-28 This is the first comprehensive introduction to computational learning theory The author's uniform presentation of fundamental results and their applications offers AI researchers a theoretical perspective on the problems they study The book presents tools for the analysis of probabilistic models of learning tools that crisply classify what is and is not efficiently learnable After a general introduction to Valiant's PAC paradigm and the important notion of the Vapnik Chervonenkis dimension the author explores specific topics such as finite automata and neural networks The presentation is intended for a broad audience the author's ability to motivate and pace discussions for beginners has been praised by reviewers Each chapter contains numerous examples and exercises as well as a useful summary of important results An excellent introduction to the area suitable either for a first course or as a component in general machine learning and advanced AI courses Also an important reference for AI researchers An Introduction to Machine Learning Miroslav Kubat, 2021-09-25 This textbook offers a comprehensive introduction to Machine Learning techniques and algorithms This Third Edition covers newer approaches that have become highly topical including deep learning and auto encoding introductory information about temporal learning and hidden Markov models and a much more detailed treatment of reinforcement learning The book is written in an easy to understand manner with many examples and pictures and with a lot of practical advice and discussions of simple applications The main topics include Bayesian classifiers nearest neighbor classifiers linear and polynomial classifiers decision trees rule induction programs artificial neural networks support vector machines boosting algorithms unsupervised learning including Kohonen networks and auto encoding deep learning reinforcement learning temporal learning including long short term memory hidden Markov models and the genetic algorithm Special attention is devoted to

performance evaluation statistical assessment and to many practical issues ranging from feature selection and feature construction to bias context multi label domains and the problem of imbalanced classes

Computational Learning Theory David Helmbold,Bob Williamson,2003-06-29 This book constitutes the refereed proceedings of the 14th Annual and 5th European Conferences on Computational Learning Theory COLT EuroCOLT 2001 held in Amsterdam The Netherlands in July 2001 The 40 revised full papers presented together with one invited paper were carefully reviewed and selected from a total of 69 submissions All current aspects of computational learning and its applications in a variety of fields are addressed

Computational Learning Theory Paul Fischer,Hans U. Simon,2003-07-31 This book constitutes the refereed proceedings of the 4th European Conference on Computational Learning Theory EuroCOLT 99 held in Nordkirchen Germany in March 1999 The 21 revised full papers presented were selected from a total of 35 submissions also included are two invited contributions The book is divided in topical sections on learning from queries and counterexamples reinforcement learning online learning and expert advice teaching and learning inductive inference and statistical theory of learning and pattern recognition

Computational Learning Theory Paul Vitanyi,1995-02-23 This volume presents the proceedings of the Second European Conference on Computational Learning Theory EuroCOLT 95 held in Barcelona Spain in March 1995 The book contains full versions of the 28 papers accepted for presentation at the conference as well as three invited papers All relevant topics in fundamental studies of computational aspects of artificial and natural learning systems and machine learning are covered in particular artificial and biological neural networks genetic and evolutionary algorithms robotics pattern recognition inductive logic programming decision theory Bayesian MDL estimation statistical physics and cryptography are addressed

Learning Theory and Kernel Machines Bernhard Schoelkopf,Manfred K. Warmuth,2003-08-11 This book constitutes the joint refereed proceedings of the 16th Annual Conference on Computational Learning Theory COLT 2003 and the 7th Kernel Workshop Kernel 2003 held in Washington DC in August 2003 The 47 revised full papers presented together with 5 invited contributions and 8 open problem statements were carefully reviewed and selected from 92 submissions The papers are organized in topical sections on kernel machines statistical learning theory online learning other approaches and inductive inference learning

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