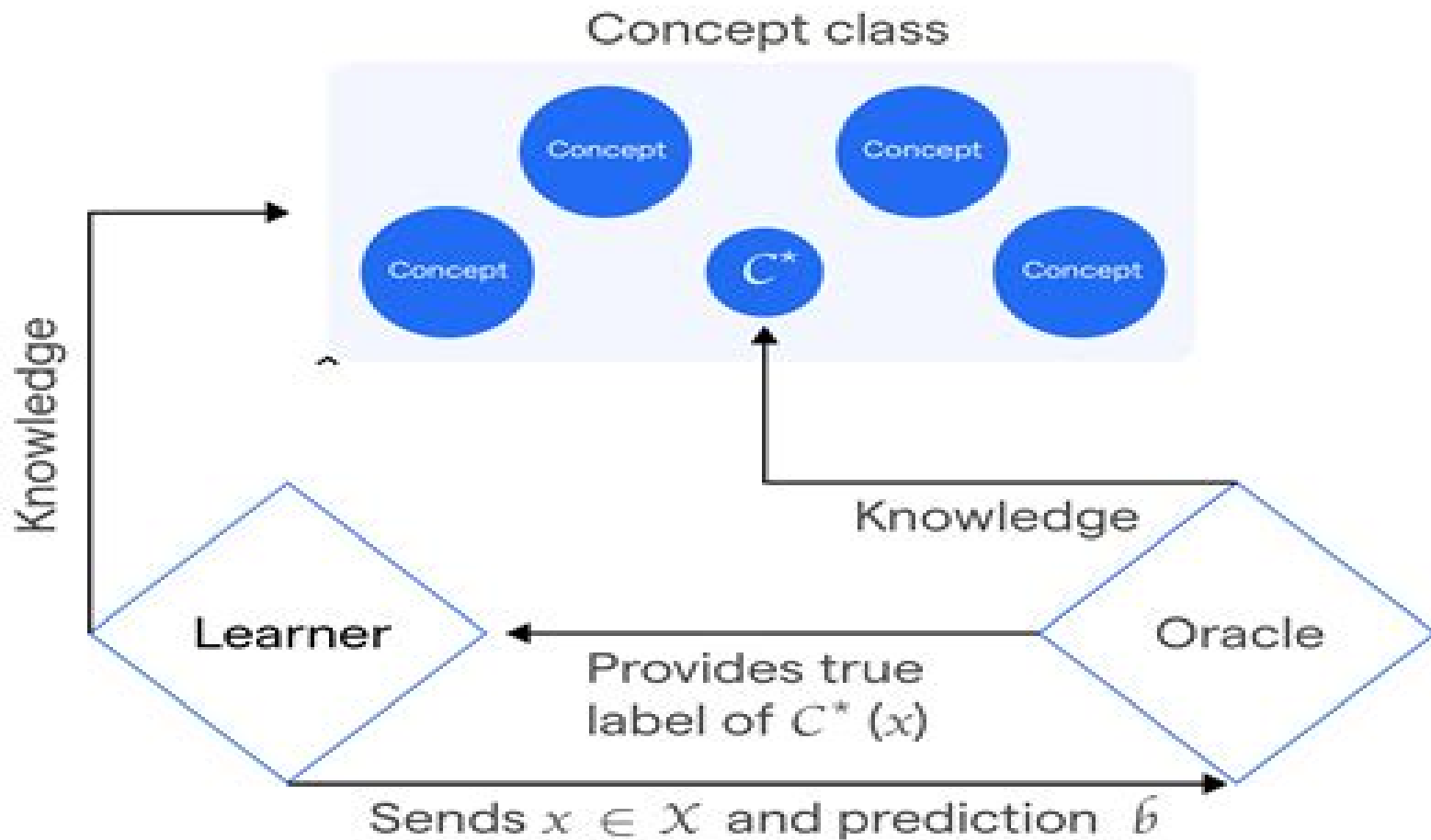


Computational Learning Theory



An Introduction To Computational Learning Theory

Nello Cristianini, John Shawe-Taylor



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

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

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 Jyrki Kivinen, Robert H. Sloan, 2003-08-02 This book constitutes the refereed proceedings of the 15th Annual Conference on Computational Learning Theory COLT 2002 held in Sydney Australia in July 2002 The 26 revised full papers presented were carefully reviewed and selected from 55 submissions The papers are organized in topical sections on statistical learning theory online learning inductive inference PAC learning boosting and other learning paradigms

Computational Learning Theory Shai Ben-David, 1997-03-03 Content Description Includes bibliographical references and index

Computational Learning Theory Paul Fischer, 1999-03-17 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

An Introduction to Support Vector Machines and Other Kernel-based Learning Methods Nello Cristianini, John Shawe-Taylor, 2000-03-23 This is a comprehensive introduction to Support Vector Machines a generation learning system based on advances in statistical learning theory

Exploring Machine Learning: Theory, Practice, and Innovations Dr. Vanitha Kakollu, 2024-12-23 Exploring Machine Learning Theory Practice and Innovations is a thoughtfully curated resource that bridges the gap between foundational concepts and advanced methodologies in machine learning With its systematic structure and practical orientation the book caters to both beginners and experienced professionals in the field The content is meticulously organised to align with the learner's journey in understanding machine learning The first chapter lays the groundwork by distinguishing human learning from machine learning elucidating key concepts and highlighting the potential and limitations of machine learning applications A dedicated section on data preparation ensures readers grasp the significance of data preprocessing quality enhancement and exploration setting the stage for successful modeling The book's core chapters address model selection training evaluation and optimisation while introducing pivotal feature engineering techniques Readers are guided through Bayes Theorem and its role in concept learning followed by an exploration of supervised and unsupervised learning methods Advanced algorithms including decision trees neural networks and clustering techniques are explained with clarity and context Deep learning and neural networks are given special attention with a focus on architecture activation functions and learning processes The inclusion of contemporary topics such as ensemble learning and regularisation highlights the text's relevance in modern machine learning landscapes Practical insights are enriched by case studies across diverse applications showcasing how theory translates into innovation Exploring Machine Learning serves as a comprehensive accessible and indispensable guide for navigating the dynamic world of machine learning

Computational Learning Theory, 2002 **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

Computational Learning Theory John Shawe-Taylor, Martin Anthony, 1994 The study of machine learning within the mathematical framework of complexity theory has seen great strides in just a few short years spurred on by the tremendous rise in interest from engineers studying control to analysts predicting financial market activity Based on the first European Conference on Computational Learning Theory and including a number of invited contributions **Computational Learning Theory** offers an outstanding overview of the subject with topics ranging from results inspired by neural network research to those originating from more classical artificial intelligence approaches It will appeal to students and researchers in applied mathematics computer science and cognitive science

Proceedings of the 1988 Workshop on Computational Learning Theory David Haussler, Leonard Pitt, 1989
Algorithmic Learning Theory, 2004 *Proceedings of the Third Annual Workshop on Computational Learning Theory*
ACM Special Interest Group for Automata and Computability Theory, SIGART., 1990 COLT 90 covers the proceedings of the Third Annual Workshop on Computational Learning Theory sponsored by the ACM SIGACT SIGART University of Rochester Rochester New York on August 6-8 1990 The book focuses on the processes methodologies principles and approaches involved in computational learning theory The selection first elaborates on inductive inference of minimal programs learning switch configurations computational complexity of approximating distributions by probabilistic automata and a learning criterion for stochastic rules The text then takes a look at inductive identification of pattern languages with restricted substitutions learning ring sum expansions sample complexity of PAC learning using random and chosen examples and some problems of learning with an Oracle The book examines a mechanical method of successful scientific inquiry boosting a weak learning algorithm by majority and learning by distances Discussions focus on the relation to PAC learnability majority vote game boosting a weak learner by majority vote and a paradigm of scientific inquiry The selection is a dependable source of data for researchers interested in the computational learning theory

Proceedings of the Second Workshop on Computational Learning Theory Ronald L. Rivest, David Haussler, Manfred Warmuth, 1989
Proceedings of the Fifth Annual ACM Workshop on Computational Learning Theory Pennsy AcM Workshop on Computational Learning Theory

1992 Pittsburgh,1992 **A Survey of Computational Learning Theory** ,1989 *Journal of Machine Learning Research*
,2007 An international forum covering all areas of machine learning **Proceedings of the ... Annual ACM Conference
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