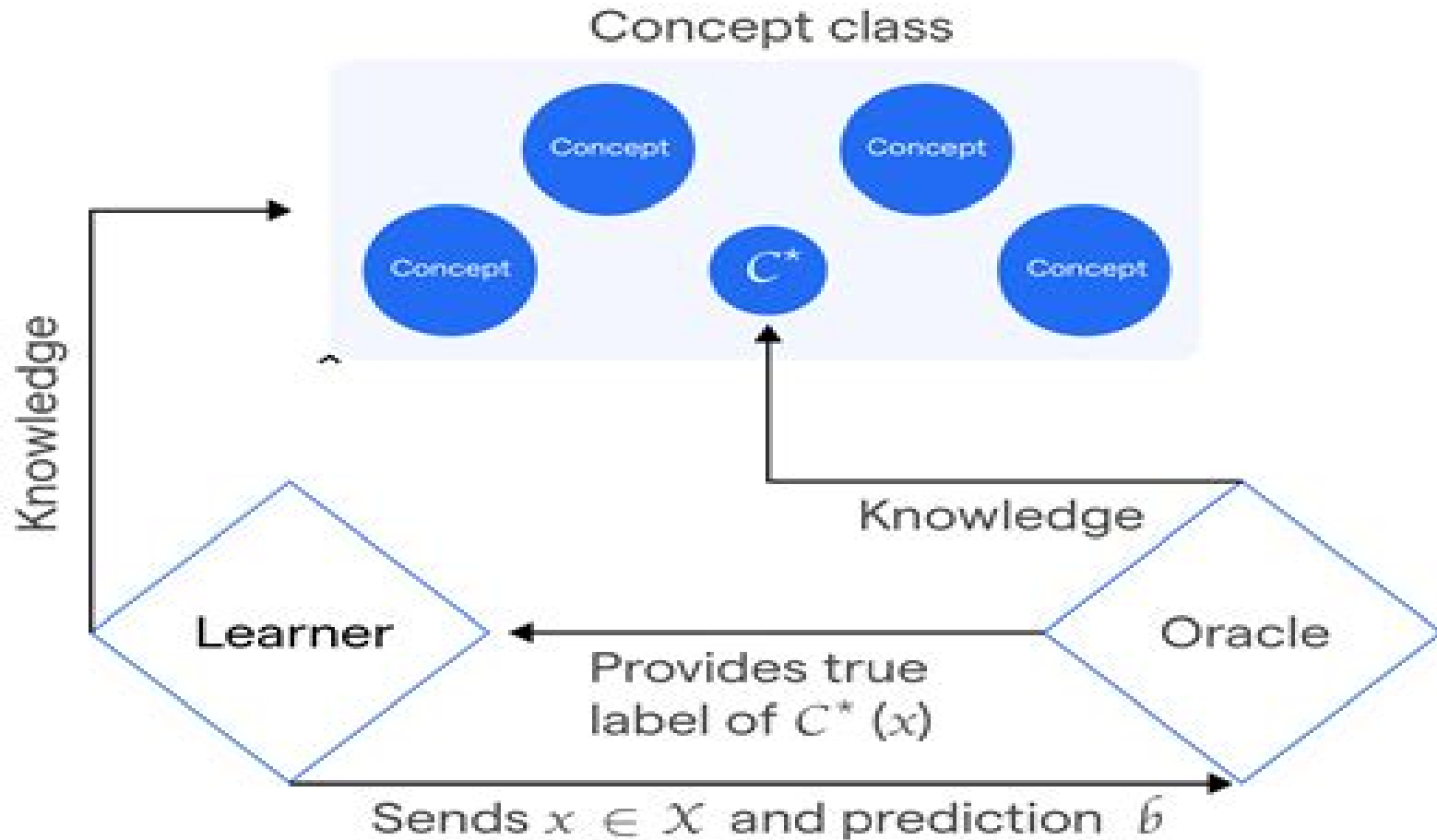


Computational Learning Theory



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Martin Anthony, N. Biggs



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

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 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 into 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.

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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 and Natural Learning Systems Stephen José Hanson, Thomas Petsche, Ronald L. Rivest, 1994 As with Volume I this second volume represents a synthesis of issues in three historically distinct areas of learning research computational learning theory neural network research and symbolic machine learning While the first volume provided a forum for building a science of computational learning across fields this volume attempts to define plausible areas of joint research the contributions are concerned with finding constraints for theory while at the same time interpreting theoretic results in the context of experiments with actual learning systems Subsequent volumes will focus on areas identified as research opportunities Computational learning theory neural networks and AI machine learning appear to be disparate fields in fact they have the same goal to build a machine or program that can learn from its environment Accordingly many of the papers in this volume deal with the problem of learning from examples In particular they are intended to encourage discussion between those trying to build learning algorithms for instance algorithms addressed by learning theoretic analyses are quite different from those used by neural network or machine learning researchers and those trying to analyze them The first section provides theoretical explanations for the learning systems addressed the second section focuses on issues in model selection and inductive bias the third section presents new learning algorithms the fourth section explores the dynamics of learning in feedforward neural networks and the final section focuses on the application of learning algorithms A Bradford Book

Computational Learning Theory David Helmbold, Bob Williamson, 2001-07-04 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

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one mole of HCl would be fully neutralized by one mole of NaOH

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web Jul 19 2023 introduction titration is an analytical quantitative technique used to determine the concentration of a solute a pH titration is used to determine the concentration of an acid or a base titrations play an important role in determining amount and purity in many manufacturing processes

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web specifically an acid base titration can be used to figure out the concentration of an acid or base whether an unknown acid or base is strong or weak pK_a of an unknown acid or pK_b of the unknown base key terms titration a process where a

solution of known strength is added to a certain volume of a treated sample containing an

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web conclusion this lab evaluated an acid base reaction with the volumetric analysis of a standard solution being naoh reaction with a 2nd substance $\text{H}_2\text{C}_2\text{O}_4$ aq 2NaOH aq $\text{Na}_2\text{C}_2\text{O}_4$ $4\text{H}_2\text{O}$ to differentiate an acid from a base in a solution a ph scale is used the ph scale ranges from 0 to 14 a ph of 7 is neutral in an acid base reaction

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web conclusion in this lab we used titration to explore the concepts of stoichiometry and equivalence points we found the concentration of an unknown substance by mixing 2m hcl with the naoh of unknown concentration in order to experimentally ascertain the concentration of the naoh

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web this point of titration is referred to as the equivalence point considering the 1 1 stoichiometry of this acid base reaction NaOH aq $\text{C}_6\text{H}_4\text{COOH}$ aq $\text{C}_6\text{H}_4\text{COONa}$ aq H_2O l the point of equivalence is the point of titration when the number of moles of naoh added is equal to the number of moles of khp in the