

Introduction To Computational Learning Theory

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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

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

this book shows how artificial intelligence grounded in learning theories can promote individual learning team productivity and multidisciplinary knowledge building it advances the learning sciences by integrating learning theory with computational biology and complexity offering an updated mechanism of learning which integrates previous theories provides a basis for scaling from individuals to societies and unifies models of psychology sociology and cultural studies the book provides a road map for the development of ai that addresses the central problems of learning theory in the age of artificial intelligence including optimizing human machine collaboration promoting individual learning balancing personalization with privacy dealing with biases and promoting fairness explaining decisions and recommendations to build trust and accountability continuously balancing and adapting to individual team and organizational goals generating and generalizing knowledge across fields and domains the book will be of interest to educational professionals researchers and developers of educational technology that utilize artificial intelligence

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

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

conducting an in depth analysis of machine learning this book proposes three perspectives for studying machine learning the learning frameworks learning paradigms and learning tasks with this categorization the learning frameworks reside within the theoretical perspective the learning paradigms pertain to the methodological perspective and the learning tasks are situated within the problematic perspective throughout the book a systematic explication of machine learning principles from these three perspectives is provided interspersed with some examples the book is structured into four parts encompassing a total of fifteen chapters the inaugural part titled perspectives comprises two chapters an introductory exposition and an exploration of the conceptual foundations the second part frameworks subdivided into five chapters each dedicated to the discussion of five seminal frameworks probability statistics connectionism symbolism and behaviorism continuing further the third part paradigms encompasses four chapters that explain the three paradigms of supervised learning unsupervised learning and reinforcement learning and narrating several quasi paradigms emerged in machine learning finally the fourth part tasks comprises four chapters delving into the prevalent learning tasks of classification regression clustering and dimensionality reduction this book provides a multi dimensional and systematic interpretation of machine learning rendering it suitable as a textbook reference for senior undergraduates or graduate students pursuing studies in artificial intelligence machine learning data science computer science and related disciplines additionally it serves as a valuable reference for those engaged in scientific research and technical endeavors within the realm of machine learning the translation was done with the help of artificial intelligence a subsequent human revision was done primarily in terms of content

from a leading computer scientist a unifying theory that will revolutionize our understanding of how life evolves and learns how does life prosper in a complex and erratic world while we know that nature follows patterns such as the law of gravity our everyday lives are beyond what known science can predict we nevertheless muddle through even in the absence of theories of how to act but how do we do it in probably approximately correct computer scientist leslie valiant presents a masterful synthesis of learning and evolution to show how both individually and collectively we not only survive but prosper in a world as complex as our own the key is probably approximately correct algorithms a concept valiant developed to explain how effective behavior can be learned the model shows that pragmatically coping with a problem can provide a satisfactory solution in the absence of any theory of the problem after all finding a mate does not require a theory of mating valiant s theory reveals the shared computational nature of evolution and learning and sheds light on perennial questions such as nature versus nurture and the limits of artificial intelligence offering a powerful and elegant model that encompasses life s

complexity probably approximately correct has profound implications for how we think about behavior cognition biological evolution and the possibilities and limits of human and machine intelligence

an introductory text in machine learning that gives a unified treatment of methods based on statistics pattern recognition neural networks artificial intelligence signal processing control and data mining

lucidly integrates current activities focusing on both fundamentals and recent advances introduction to machine learning and bioinformatics presents an informative and accessible account of the ways in which these two increasingly intertwined areas relate to each other examines connections between machine learning bio

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

a concise introduction to machine learning uses mathematics as the common language to explain a variety of machine learning concepts from basic principles and illustrates every concept using examples in both python and matlab which are available on github and can be run from there in binder in a web browser each chapter concludes with exercises to explore the content the emphasis of the book is on the question of why only if why an algorithm is successful is understood can it be properly applied and the results trusted standard techniques are treated rigorously including an introduction to the necessary probability theory this book addresses the commonalities of methods aims to give a thorough and in depth treatment and develop intuition for the inner workings of algorithms while remaining concise this useful reference should be essential on the bookshelf of anyone employing machine learning techniques since it is born out of strong experience in university teaching and research on algorithms while remaining approachable and readable

data mining is often referred to by real time users and software solutions providers as knowledge discovery in databases kdd good data mining practice for business intelligence the art of turning raw software into meaningful information is demonstrated by the many new techniques and developments in the conversion of fresh scientific discovery into widely accessible software solutions this book has been written as an introduction to the main issues associated with the basics of machine learning and the algorithms used in data mining suitable for advanced undergraduates and their tutors at postgraduate level in a wide area of computer science and technology topics as well as researchers looking to adapt various algorithms for particular data mining tasks a valuable addition to the libraries and bookshelves of the many companies who are using the principles of data mining or kdd to effectively deliver solid business and industry solutions provides an introduction to the main issues associated with the basics of machine learning and the algorithms used in data mining a valuable addition to the

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since its creation at the beginning of world ii radars have forever transformed the practice of modern warfare the evolution of countermeasure conducted by electronic warfare systems against radars and radars corresponding counter countermeasures is an intriguing technical subject this book provides a very accessible introduction to a broad range of radar and electronic warfare technologies the subjects covered in this book range from early radar development to later technologies such as stealthy techniques low probability of intercept radar and machine learning historical events are used to illustrate the principles of electronic warfare and to help readers to apprehend contexts under which radars and corresponding electronic warfare techniques were developed

we also give algorithms for learning powerful concept classes under the uniform distribution and give equivalences between natural models of efficient learnability this thesis also includes detailed definitions and motivation for the distribution free model a chapter discussing past research in this model and related models and a short list of important open problems

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Introduction

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