Computational Learning Theory

An Introduction To Computational Learning Theory

Michael J. Kearns, Umesh Vazirani

This book introduces many of the important formal models and techniques used in the study of machine learning. The authors present the basic ideas behind the different learning paradigms as well as the key results that define them. The topics covered include the probably approximately correct (PAC) framework, theProbably Approximately Correct (PAC) Learning Algorithm, and the Computational Learning Theory of An Introduction To Computational Learning Theory

Introduction to Machine Learning

The book provides an introduction to machine learning, an interdisciplinary field concerned with automatically constructing or improving systems that make decisions or predictions by learning from data. The book is aimed at readers with a background in computer science or engineering and covers the fundamental concepts and techniques of machine learning, including supervised and unsupervised learning, regression, classification, clustering, and neural networks.

Machine Learning

The book contains numerous exercises and case studies, providing readers with hands-on experience and opportunities to apply the concepts and techniques they have learned. It also includes a comprehensive set of solutions to selected exercises, allowing readers to check their understanding and progress through the material.

An Introduction to Computational Learning Theory

Michael J. Kearns, Umesh Vazirani

This book provides an introduction to computational learning theory, a field concerned with the study of algorithms for drawing generalizations from data. The authors introduce the basic concepts of computational learning theory, including the concept of PAC learning, and present the key results that define the field. The book is aimed at readers with a background in computer science or mathematics, and covers topics such as supervised learning, unsupervised learning, and reinforcement learning.

The book is organized into chapters that cover different aspects of computational learning theory. The chapters include introductions to the basic concepts of learning, the PAC learning framework, and the use of logarithmic loss, as well as more advanced topics such as the use of KWIK learning algorithms and the concept of learning with malicious errors.

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Techniques across many disciplines, probing strengths and deficiencies of current classification techniques, and the algorithms that drive them. The book offers guidance on choosing pattern recognition classification techniques, and helps

The 16 revised full papers presented were carefully reviewed and selected from a total of 41 submissions. The book is divided in topical sections on computational geometry, complexity, graph drawing, online algorithms and scheduling, CAD/CAM, and geographic, graph algorithms, randomized algorithms, combinatorial problems, computational biology, approximation algorithms, and parallel and distributed algorithms.

Scientific Applications of Language Methods-Carlson Martin Yale 2011 Presenting interdisciplinary research at the forefront of present advances in information technologies and their foundations. Scientific Applications of Language Methods is a multi-author volume containing pieces of work (either original research or surveys) exemplifying the application of formal language tools in several fields, including logic and discrete mathematics, natural language processing, artificial intelligence, natural computing and bioinformatics.


Introduction to Machine Learning-Ethem Alpaydin 2005-03-17 A substantially revised fourth edition of a comprehensive textbook, including new coverage of recent advances in deep learning and neural networks. The goal of machine learning is to program computers to use example data or past experience to solve a given problem. Machine learning underlies such exciting new technologies as self-driving cars, speech recognition, and translation applications. This substantially revised fourth edition of a comprehensive, widely used machine learning textbook offers new coverage of recent advances in the field in both theory and practice, including developments in deep learning and neural networks.

The book covers a broad array of topics not usually included in introductory machine learning texts, including supervised learning, Bayesian decision theory, parametric methods, semiparametric methods, nonparametric methods, multivariate analysis, hidden Markov models, reinforcement learning, kernel machines, graphical models, Bayesian estimation, and statistical testing. The fourth edition offers a new chapter on deep learning that discusses training, regularizing, and structuring deep neural networks such as convolutional and generative adversarial networks; new material in the chapter on reinforcement learning that covers the use of deep networks, the policy gradient methods, and deep reinforcement learning; new material in the chapter on multilayer perceptrons on autoencoders and the word2vec network; and discussion of a popular method of dimensionality reduction, t-SNE. New appendixes offer background material on linear algebra and optimization. End-of-chapter exercises help readers to apply concepts learned. Introduction to Machine Learning can be used in courses for advanced undergraduate and graduate students and as a reference for professionals.

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Algorithms and Computation-Kyung-Yong Chwa 2003-06-29 This book constitutes the refereed proceedings of the 9th International Symposium on Algorithms and Computation, ISAAC'98, held in Taejon, Korea, in December 1998. The 47 revised full papers presented were carefully reviewed and selected from a total of 102 submissions. The book is divided in topical sections on computational geometry, complexity, graph drawing, online algorithms and scheduling, CAD/CAM, and geographic, graph algorithms, randomized algorithms, combinatorial problems, computational biology, approximation algorithms, and parallel and distributed algorithms.

Theoretical Learning Theory-Ming Li 1997-09-17 This book constitutes the strictly refereed post-workshop proceedings of the Second International Workshop on Database Issues for Data Visualization, held in conjunction with the IEEE Visualization '95 conference in Atlanta, Georgia, in October 1995. Besides 13 revised full papers, the book presents three workshop subgroup reports summarizing the contents of the book as well as the state-of-the-art in the areas of scientific data modeling, supporting interactive database exploration, and visualization related metadata. The volume provides a snapshot of current research in the area and surveys the problems that must be addressed now and in the future towards the integration of database management systems and data visualization.

Algorithms for Learning Theory-Australian All 9 (1986) Sydney 1996-10-09 This book constitutes the refereed proceedings of the 7th International Workshop on Algorithmic Learning Theory, ALT '96, held in Sydney, Australia, in October 1996. The 16 revised full papers presented were selected from 41 submissions; also included are eight short papers as well as four full-length invited contributions by Ross Quinlan, Taisuke Shintani, Leslie Valiant, and Paul Vitanyi, and an introduction by the volume editors. The book covers all areas related to algorithmic learning theory, ranging from theoretical foundations of machine learning to applications in several areas. Neural Network Learning and Expert Systems-Stephen J Gallant 1993 presents a unified and in-depth development of neural network learning algorithms and neural network expert systems in a manner that is effective for self-study. The book is designed primarily for readers with no previous training in neural networks, but also includes advanced topics and techniques that will provide stimulating reading for advanced students and professionals.


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