

An 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. 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 ...

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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.

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This course will give an introduction to some of the central topics in computational learning theory, a field which approaches the above question from a theoretical computer science perspective. We will study well-defined mathematical and computational models of learning in which it is possible to give precise and rigorous analyses of learning problems and learning algorithms.

Perceptrons (book) - Wikipedia
At a high level, computational learning theory answers the same sort of questions as statistical learning theory ("What kind of guarantees can I make about my learning procedure? In what situations is learning possible?") with different tools and methodology.

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An Introduction to Computational Learning Theory by ...
The book's writing style is clear and pleasant, reflecting the current trend toward intuitive, philosophical presentations of complex technical matters. Although readers should not expect to find plug-and-play algorithms, the book is recommended to everyone as a solid introduction to the theoretical aspects of computational learning.

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Perceptrons: An Introduction to Computational Geometry is a book of thirteen chapters grouped into three sections. Chapters 1–10 present the authors' perceptron theory through proofs, Chapter 11 involves learning, Chapter 12 treats linear separation problems, and Chapter 13 discusses some of the authors' thoughts on simple and multilayer perceptrons and pattern recognition.

Computational Learning Theory
The course has six modules and provides detailed explanation of how to set up, run and interpret the results of CFD models for eight different case studies from ANSYS Fluent® and covers all the necessary theoretical background for the industrial applications of Computational Fluid Dynamics contained in the learning objectives and outline. All ...

An Introduction to Computational Word Learning (Autumn 2003)
Computational learning theory is a branch of theoretical computer science that formally studies how to design computer programs that are capable of learning and identifies the computational limits of learning by machine. Historically researchers in the artificial intelligence community have judged learning algorithms empirically

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