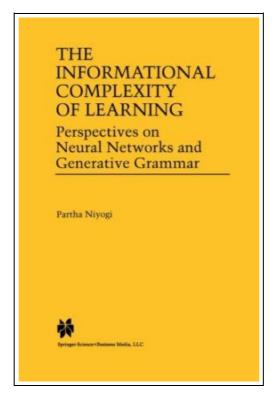
## The Informational Complexity of Learning



Filesize: 6.65 MB

### Reviews

This is basically the finest publication i actually have go through till now. We have read and i also am confident that i am going to likely to read through again once more in the foreseeable future. It is extremely difficult to leave it before concluding, once you begin to read the book

(Prof. Adell Lubowitz)

### THE INFORMATIONAL COMPLEXITY OF LEARNING



Book Condition: New. Publisher/Verlag: Springer, Berlin | Perspectives on Neural Networks and Generative Grammar | Among other topics, The Informational Complexity of Learning: Perspectives on Neural Networks and Generative Grammar brings together two important but very different learning problems within the same analytical framework. The first concerns the problem of learning functional mappings using neural networks, followed by learning natural language grammars in the principles and parameters tradition of Chomsky. These two learning problems are seemingly very different. Neural networks are real-valued, infinite-dimensional, continuous mappings. On the other hand, grammars are booleanvalued, finite-dimensional, discrete (symbolic) mappings. Furthermore the research communities that work in the two areas almost never overlap. The book's objective is to bridge this gap. It uses the formal techniques developed in statistical learning theory and theoretical computer science over the last decade to analyze both kinds of learning problems. By asking the same question - how much information does it take to learn? - of both problems, it highlights their similarities and differences. Specific results include model selection in neural networks, active learning, language learning and evolutionary models of language change. The Informational Complexity of Learning: Perspectives on Neural Networks and Generative Grammar is a very interdisciplinary work. Anyone interested in the interaction of computer science and cognitive science should enjoy the book. Researchers in artificial intelligence, neural networks, linguistics, theoretical computer science, and statistics will find it particularly relevant. | 1. Introduction.- 1.1 The Components of a Learning Paradigm.- 1.1.1 Concepts, Hypotheses, and Learners.- 1.1.2 Generalization, Learnability, Successful learning.- 1.1.3 Informational Complexity.- 1.2 Parametric Hypothesis Spaces.- 1.3 Technical Contents and Major Contributions.- 1.3.1 A Final Word.- 2. Generalization Error For Neural Nets.- 2.1 Introduction.- 2.2 Definitions and Statement of the Problem.- 2.2.1 Random Variables and Probability Distributions.- 2.2.2 Learning from Examples and Estimators.- 2.2.3 The Expected...



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