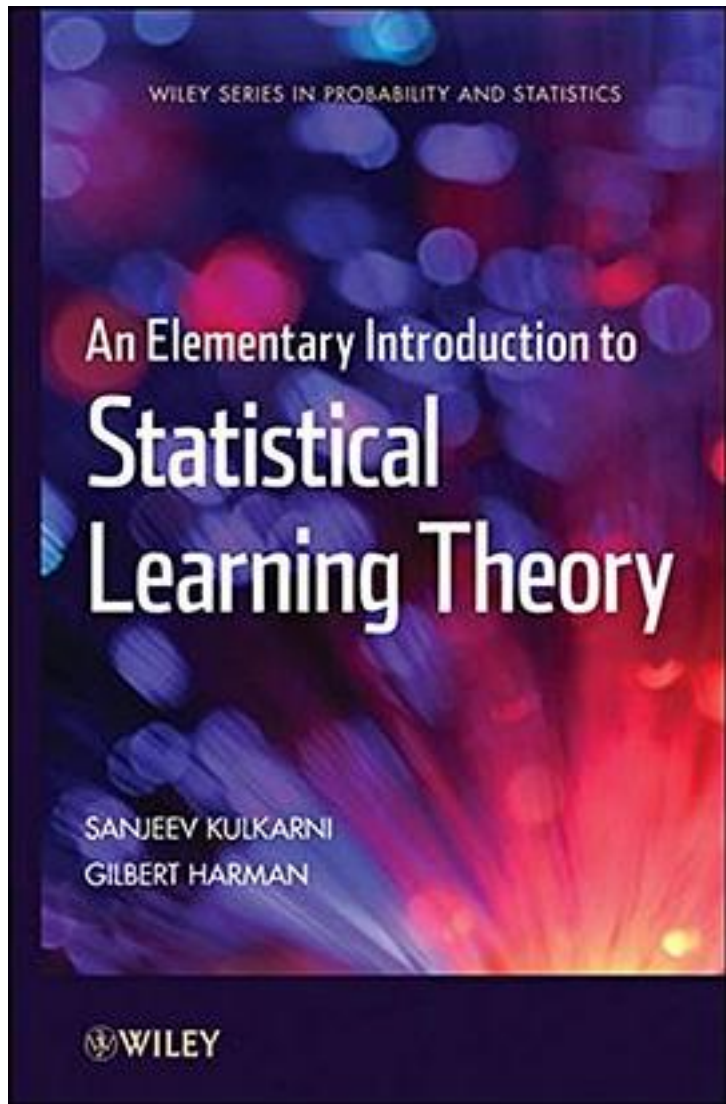


# An Elementary Introduction to Statistical Learning Theory



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出版者:Wiley

出版时间:2011-8-2

装帧:Hardcover

isbn:9780470641835

A thought-provoking look at statistical learning theory and its role in understanding human learning and inductive reasoning

A joint endeavor from leading researchers in the fields of philosophy and electrical engineering, *An Elementary Introduction to Statistical Learning Theory* is a comprehensive and accessible primer on the rapidly evolving fields of statistical pattern recognition and statistical learning theory. Explaining these areas at a level and in a way that is not often found in other books on the topic, the authors present the basic theory behind contemporary machine learning and uniquely utilize its foundations as a framework for philosophical thinking about inductive inference. Promoting the fundamental goal of statistical learning, knowing what is achievable and what is not, this book demonstrates the value of a systematic methodology when used along with the needed techniques for evaluating the performance of a learning system. First, an introduction to machine learning is presented that includes brief discussions of applications such as image recognition, speech recognition, medical diagnostics, and statistical arbitrage. To enhance accessibility, two chapters on relevant aspects of probability theory are provided. Subsequent chapters feature coverage of topics such as the pattern recognition problem, optimal Bayes decision rule, the nearest neighbor rule, kernel rules, neural networks, support vector machines, and boosting. Appendices throughout the book explore the relationship between the discussed material and related topics from mathematics, philosophy, psychology, and statistics, drawing insightful connections between problems in these areas and statistical learning theory. All chapters conclude with a summary section, a set of practice questions, and a reference section that supplies historical notes and additional resources for further study. *An Elementary Introduction to Statistical Learning Theory* is an excellent book for courses on statistical learning theory, pattern recognition, and machine learning at the upper-undergraduate and graduate levels. It also serves as an introductory reference for researchers and practitioners in the fields of engineering, computer science, philosophy, and cognitive science that would like to further their knowledge of the topic.

作者介绍:

目录:

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标签

机器学习

统计学习

统计哲学

数学

machine\_learning

MachineLearning

统计学

归纳逻辑

## 评论

虽然近一周来面试占去了相当多的时间，但是花了这么长时间才读完这本真是有点不可饶恕，此书很基本，但是对于那些只看算法与实现的朋友来说，依然是有料的，导论导论，窃以为勾勒出了大致思考的几个方向，并提出了问题，就已经足够了，并且自己还从中有了一些思考。不过最大的问题在于，贝叶斯凭什么这么牛逼？

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我就想知道Harman写了哪些章节？？

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## 书评

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