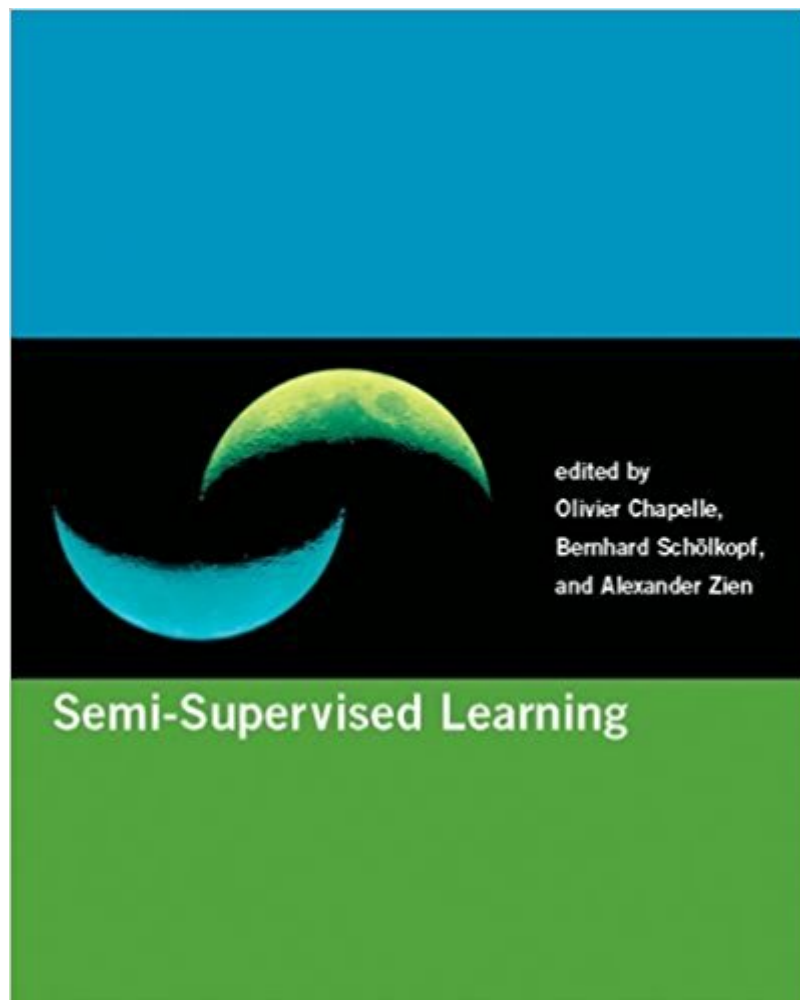




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Semi-Supervised Learning (Adaptive Computation And Machine Learning Series)



Synopsis

In the field of machine learning, semi-supervised learning (SSL) occupies the middle ground, between supervised learning (in which all training examples are labeled) and unsupervised learning (in which no label data are given). Interest in SSL has increased in recent years, particularly because of application domains in which unlabeled data are plentiful, such as images, text, and bioinformatics. This first comprehensive overview of SSL presents state-of-the-art algorithms, a taxonomy of the field, selected applications, benchmark experiments, and perspectives on ongoing and future research. *Semi-Supervised Learning* first presents the key assumptions and ideas underlying the field: smoothness, cluster or low-density separation, manifold structure, and transduction. The core of the book is the presentation of SSL methods, organized according to algorithmic strategies. After an examination of generative models, the book describes algorithms that implement the low-density separation assumption, graph-based methods, and algorithms that perform two-step learning. The book then discusses SSL applications and offers guidelines for SSL practitioners by analyzing the results of extensive benchmark experiments. Finally, the book looks at interesting directions for SSL research. The book closes with a discussion of the relationship between semi-supervised learning and transduction.

Book Information

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Customer Reviews

In summary, reading this book is a delightful journey through semi-supervised learning. (Hsun-Hsien

Olivier Chapelle is Senior Research Scientist in Machine Learning at Yahoo. Alexander Zien is Senior Analyst in Bioinformatics at LIFE Biosystems GmbH, Heidelberg.

I am working in domain of applied semi-supervised learning and i found this book to be useful. Authors are right - this field is not mature yet and there might be new methods out or on they way which would change or revolutionize the domain. However, chapters are well divided into areas and even for not very strong mathematically founded person there are ideas and concepts to grab. Advised for people working in this area to see different approaches and may be eventually to have a spark of a new idea.

a complete introduction to semi-supervised learning and a panoramic view of class of SSL methods and algorithms. very usefull for begin the study of SSL

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