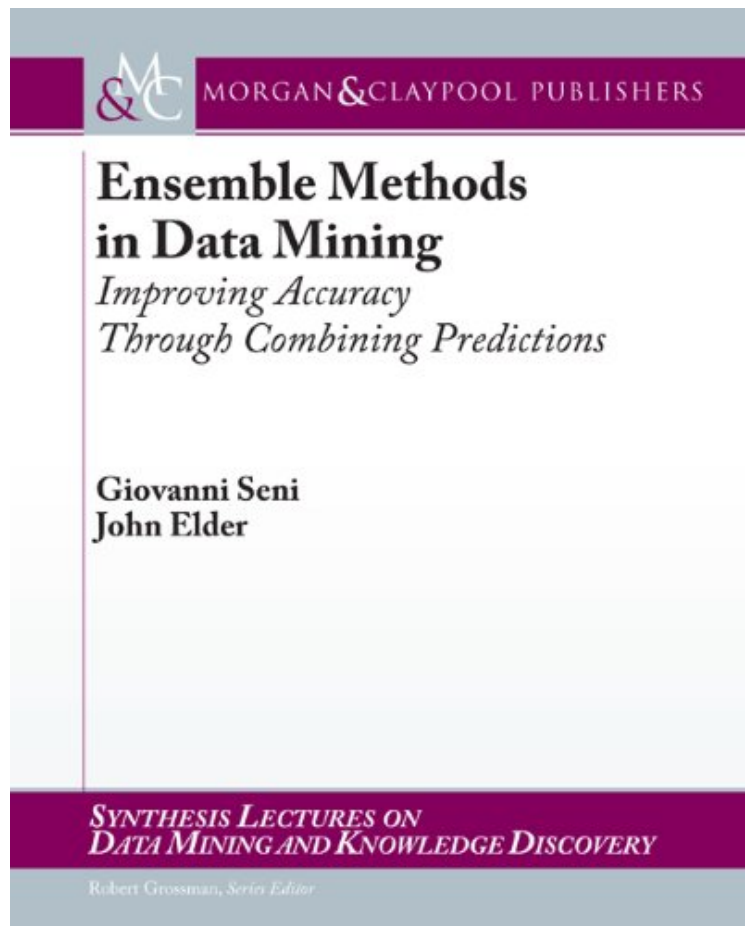


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Ensemble Methods in Data Mining: Improving Accuracy Through Combining Predictions (English Edition)

Von Giovanni Seni, John F. Elder
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Von Giovanni Seni, John F. Elder : Ensemble Methods in Data Mining: Improving Accuracy Through Combining Predictions (English Edition) before purchasing it in order to gage whether or not it would be worth my time, and all praised Ensemble Methods in Data Mining: Improving Accuracy Through Combining Predictions (English Edition):

KundenrezensionenHilfreichste Kundenrezensionen1 von 2 Kunden fanden die folgende Rezension hilfreich. Gute bersicht, miserabler Verlag. Von Dr. Chrilly DonningerDer schmale Band ist eine gut geschriebene bersicht ber praktisch relevante Ensemble Methoden. Die Autoren gehen nicht auf alle Feinheiten ein, sie psentieren jedoch jeden Algorithmus mit Pseudo-Kode. Der Text enthlt auch zahlreiche Farb-Graphiken. Zumindest liest man im Text von grnen, blauen, roten Punkten bzw. Linien. Nur sieht man davon im Buch nix. Es ist alles Grau in Grau. Wobei noch verschrftend hinzukommt, dass die Grauwerte der verschiedenen Farben praktisch identisch gewhlt wurden. Damit sind

die Grafiken weitgehend sinnlos. Offensichtlich hat man eine Power-Point Präsentation ohne jede weitere Verarbeitung 1:1 gedruckt. Ein Lektorat gibt es offensichtlich nicht mehr. Einem Lektor hätte auch auffallen müssen, dass es in den References einen Friedman, J. und einen Friedman, J.H. gibt. Nachdem der Name Friedman im Wissenschaftsbetrieb relativ häufig anzutreffen ist, könnte es sich um einen oder zwei verschiedene Autoren handeln. Ich habe mir die Papers heruntergeladen. Es ist ein- und dieselbe Person. Die einheitliche Schreibweise von Autorennamen ist wohl ein Luxus aus längst vergangenen Tagen.

Kurzbeschreibung Ensemble methods have been called the most influential development in Data Mining and Machine Learning in the past decade. They combine multiple models into one usually more accurate than the best of its components. Ensembles can provide a critical boost to industrial challenges -- from investment timing to drug discovery, and fraud detection to recommendation systems -- where predictive accuracy is more vital than model interpretability. Ensembles are useful with all modeling algorithms, but this book focuses on decision trees to explain them most clearly. After describing trees and their strengths and weaknesses, the authors provide an overview of regularization -- today understood to be a key reason for the superior performance of modern ensembling algorithms. The book continues with a clear description of two recent developments: Importance Sampling (IS) and Rule Ensembles (RE). IS reveals classic ensemble methods -- bagging, random forests, and boosting -- to be special cases of a single algorithm, thereby showing how to improve their accuracy and speed. REs are linear rule models derived from decision tree ensembles. They are the most interpretable version of ensembles, which is essential to applications such as credit scoring and fault diagnosis. Lastly, the authors explain the paradox of how ensembles achieve greater accuracy on new data despite their (apparently much greater) complexity. This book is aimed at novice and advanced analytic researchers and practitioners -- especially in Engineering, Statistics, and Computer Science. Those with little exposure to ensembles will learn why and how to employ this breakthrough method, and advanced practitioners will gain insight into building even more powerful models. Throughout, snippets of code in R are provided to illustrate the algorithms described and to encourage the reader to try the techniques. The authors are industry experts in data mining and machine learning who are also adjunct professors and popular speakers. Although early pioneers in discovering and using ensembles, they here distill and clarify the recent groundbreaking work of leading academics (such as Jerome Friedman) to bring the benefits of ensembles to practitioners. Table of Contents: Ensembles Discovered / Predictive Learning and Decision Trees / Model Complexity, Model Selection and Regularization / Importance Sampling and the Classic Ensemble Methods / Rule Ensembles and Interpretation Statistics / Ensemble Complexity

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