

Boosting Foundations And Algorithms

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Boosting Foundations And Algorithms

Boosting: Foundations and Algorithms (Adaptive Computation and Machine Learning series) Paperback – Illustrated, January 10, 2014 by Robert E. Schapire (Author)

Boosting: Foundations and Algorithms (Adaptive Computation ...

Boosting • boosting = general method of converting rough rules of thumb into highly accurate prediction rule • technically: • assume given “weak” learning algorithm that can consistently find classifiers (“rules of thumb”) at least slightly better than random, say, accuracy $\geq 55\%$ (in two-class setting) [“weak learning assumption”]

Boosting: Foundations and Algorithms

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Boosting: Foundations and Algorithms by Robert E. Schapire

Boosting: Foundations and Algorithms. Book Abstract: Boosting is an approach to machine learning based on the idea of creating a highly accurate predictor by combining many weak and inaccurate "rules of thumb." A remarkably rich theory has evolved around boosting, with connections to a range of topics, including statistics, game theory, convex optimization, and information geometry.

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Boosting: Foundations and Algorithms — Princeton University

The AdaBoost algorithm by Freund and Schapire was one of the few theoretical boosting algorithms that were simple enough to be extremely useful and successful in practice, with applications ranging...

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Boosting : foundations and algorithms / Robert E. Schapire and Yoav Freund. p. cm.—(Adaptive computation and machine learning series) Includes bibliographical references and index. ISBN 978-0-262-01718-3 (hardcover : alk. paper) 1. Boosting (Algorithms) 2. Supervised learning (Machine learning) I. Freund, Yoav. II. Title. Q325.75.S33 2012 006.3'1—dc23

Boosting: Foundations and Algorithms (Adaptive Computation ...

New Book: Boosting: Foundations and Algorithms, by Robert E. Schapire and Yoav Freund. Boosting is a very useful machine learning method based on the idea of creating a highly accurate predictor by combining many weak and inaccurate "rules of thumb." We are pleased to announce the publication of our new book, "Boosting: Foundations and Algorithms."

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An accessible introduction and essential reference for an approach to machine learning that creates highly accurate prediction rules by combining many weak and inaccurate ones. Boosting is an approach to machine learning based on the idea of creating a highly accurate predictor by combining many weak and inaccurate “rules of thumb.” A remarkably rich theory has evolved around boosting ...

Boosting | The MIT Press

portant foundations which linked Ada-Boost and other boosting algorithms to the framework of sta-tistical estimation and additive basis expansion. In their terminology, boosting is represented as “stage-wise, additive modeling”: the word “additive” does not imply a model fit which is additive in the co-

Boosting Algorithms: Regularization, Prediction and Model ...

Boosting : foundations and algorithms / Robert E. Schapire andYoav Freund. p. cm. (Adaptive computation and machine learning series) Includes bibliographical references and index. ISBN 978-0-262-01718-3 (hardcover : alk. paper) 1. Boosting (Algorithms) 2. Supervised learning (Machine learning) I. Freund,Yoav. II. Title. Q325.75.S33 2012 006.3'1 dc23

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BOOSTING: FOUNDATIONS AND ALGORITHMS (ADAPTIVE COMPUTATION AND MACHINE LEARNING SERIES) By Robert E. Schapire, Yoav Freund - Hardcover **Mint Condition**.

BOOSTING: FOUNDATIONS AND ALGORITHMS (ADAPTIVE COMPUTATION ...

In machine learning, boosting is an ensemble meta-algorithm for primarily reducing bias, and also variance in supervised learning, and a family of machine learning algorithms that convert weak learners to strong ones. Boosting is based on the question posed by Kearns and Valiant: "Can a set of weak learners create a single strong learner?" A weak learner is defined to be a classifier that is only slightly correlated with the true classification. In contrast, a strong learner is a classifier that

Boosting (machine learning) - Wikipedia

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AdaBoost can be understood in many ways, but at its foundation, it is a boosting algorithm in the original technical meaning of the word, a provable method for driving down the error of the combined classifier by combining a number of weak classifiers.

Boosting - MIT Press

A remarkably rich theory has evolved around boosting, with connections to a range of topics, including statistics, game theory, convex optimization, and information geometry. Boosting algorithms have also enjoyed practical success in such fields as biology, vision, and speech processing.

Adaptive Computation and Machine Learning: Boosting ...

Boosting is an approach to machine learning based on the idea of creating a highly accurate predictor by combining many weak and inaccurate "rules of thumb.". Boosting algorithms have also enjoyed practical success in such fields as biology, vision, and speech processing. See details.

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Abstract. Boosting is an approach to machine learning based on the idea of creating a highly accurate predictor by combining many weak and inaccurate "rules of thumb." A remarkably rich theory has evolved around boosting, with connections to a range of topics, including statistics, game theory, convex optimization, and information geometry.

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