

SUPPORT VECTOR MACHINES FOR PATTERN CLASSIFICATION ABE SHIGEO%0A

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Originally formulated for two-class classification problems, support vector machines (SVMs) are now accepted as powerful tools for developing pattern classification and function approximation systems. Recent developments in kernel-based methods include kernel classifiers and regressors and their variants, advancements in generalization theory, and various feature selection and extraction methods.

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Presented by Prof. Shigeo Abe Graduate School of Science and Technology Kobe University Kobe, Japan

abe@edept.kobe-u.ac.jp Brief Description:

Support vector machines (SVMs) have gained wide acceptance due to its solid theoretical basis and high generalization ability for wide range of applications. This tutorial emphasizes the applicability

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Support vector machines are a popular ML algorithm in pattern recognition due to the state-of-the-art classification performance (Abe, 2005). Support vector machines deterministically choose

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Support Vector Machines for Pattern Classification / by Shigeo Abe A guide on the use of SVMs in pattern classification, including a rigorous performance comparison of classifiers and regressors. The book presents architectures for multiclass classification and function approximation problems, as well as evaluation criteria for classifiers and regressors.

Support Vector Machines for Pattern Classification

Support Vector Machines for Pattern Classification Shigeo Abe Graduate School of Science and Technology Kobe University Kobe, Japan . My Research History on NN, FS, and SVM Neural Networks (1988-) Convergence characteristics of Hopfield networks Synthesis of multilayer neural networks Fuzzy Systems (1992-) Trainable fuzzy classifiers Fuzzy classifiers with ellipsoidal

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This book focuses on the application of support vector machines to pattern classification. Specifically, we discuss the properties of support vector machines that are useful for pattern classification applications, several multiclass models, and variants of support vector machines. To clarify their applicability to real-world problems, we compare performance of most models discussed in the book.

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Reviewer: Luminita Stare The use of support vector machines (SVMs) is a relatively new and very promising classification technique, developed by Vapnik and his group at AT&T Bell Laboratories as an alternative training technique for polynomial, radial basis function, more

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SVM - Support Vector Machines

SVM, support vector machines, SVMC, support vector machines classification, SVMR, support vector machines regression, kernel, machine learning, pattern recognition, cheminformatics, computational chemistry, bioinformatics, computational biology : Home Support Vector Machines SVM Reviews SVM Books SVM Software Pattern Recognition Optimum Hyperplane SVM Regression - SVM SVM Statistics Machine

Support-vector machine - Wikipedia

The soft-margin support vector machine described above is an example of an empirical risk minimization (ERM) algorithm for the hinge loss. Seen this way, support vector machines belong to a natural class of algorithms for statistical inference, and many of its unique features are due to the behavior of the hinge loss. This perspective can provide further insight into how and why SVMs work, and