

Learning With Kernels Support Vector Machines

Regularization Optimization And Beyond Adaptive Computation And Machine Learning

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Support Vector Machines An Introduction to Support Vector Machines and Other Kernel-based Learning Methods
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the support vector machine svm has become one of the standard tools for machine learning and data mining this carefully edited volume presents the state of the art of the mathematical foundation of svm in statistical learning theory as well as novel algorithms and applications support vector machines provides a selection of numerous real world applications such as bioinformatics text categorization pattern recognition and object detection written by leading experts in their respective fields

support vector machines svm have both a solid mathematical background and practical applications this book focuses on the recent advances and applications of the svm such as image processing medical practice computer vision and pattern recognition machine learning applied statistics and artificial intelligence the aim of this book is to create a comprehensive source on support vector machine applications

in machine learning support vector machines svms also support vector networks are supervised learning models with associated learning algorithms that analyze data used for classification and regression analysis given a set of training examples each marked as belonging to one or the other of two categories an svm training algorithm builds a model that assigns new examples to one category or the other making it a non probabilistic binary linear classifier an svm model is a representation of the examples as points in space mapped so that the examples of the separate

categories are divided by a clear gap that is as wide as possible new examples are then mapped into that same space and predicted to belong to a category based on which side of the gap they fall in addition to performing linear classification svms can efficiently perform a non linear classification using what is called the kernel trick implicitly mapping their inputs into high dimensional feature spaces this book develops support vector machine techniques

every mathematical discipline goes through three periods of development the naive the formal and the critical david hilbert the goal of this book is to explain the principles that made support vector machines svms a successful modeling and prediction tool for a variety of applications we try to achieve this by presenting the basic ideas of svms together with the latest developments and current research questions in a unified style in a nutshell we identify at least three reasons for the success of svms their ability to learn well with only a very small number of free parameters their robustness against several types of model violations and outliers and last but not least their computational efficiency compared with several other methods although there are several roots and precursors of svms these methods gained particular momentum during the last 15 years since vapnik 1995 1998 published his well known textbooks on statistical learning theory with a special emphasis on support vector machines since then the field of machine learning has witnessed intense activity in the study of svms which has spread more and more to other disciplines such as statistics and mathematics thus it seems fair to say that several communities are currently working on support vector machines and on related kernel based methods although there are many interactions between these communities we think that there is still room for additional fruitful interaction and would be glad if this text book were found helpful in stimulating further research many of the results presented in this book have previously been scattered in the journal literature or are still under review as a consequence these results have been accessible only to a relatively small number of specialists sometimes probably only to people from one community but not the others

this is the first comprehensive introduction to support vector machines svms a generation

learning system based on recent advances in statistical learning theory svms deliver state of the art performance in real world applications such as text categorisation hand written character recognition image classification biosequences analysis etc and are now established as one of the standard tools for machine learning and data mining students will find the book both stimulating and accessible while practitioners will be guided smoothly through the material required for a good grasp of the theory and its applications the concepts are introduced gradually in accessible and self contained stages while the presentation is rigorous and thorough pointers to relevant literature and web sites containing software ensure that it forms an ideal starting point for further study equally the book and its associated web site will guide practitioners to updated literature new applications and on line software

based on ideas from support vector machines svms learning to classify text using support vector machines presents a new approach to generating text classifiers from examples the approach combines high performance and efficiency with theoretical understanding and improved robustness in particular it is highly effective without greedy heuristic components the svm approach is computationally efficient in training and classification and it comes with a learning theory that can guide real world applications learning to classify text using support vector machines gives a complete and detailed description of the svm approach to learning text classifiers including training algorithms transductive text classification efficient performance estimation and a statistical learning model of text classification in addition it includes an overview of the field of text classification making it self contained even for newcomers to the field this book gives a concise introduction to svms for pattern recognition and it includes a detailed description of how to formulate text classification tasks for machine learning

support vector machines svms were originally formulated for two class classification problems and have been accepted as a powerful tool for developing pattern classification and function approximations systems this book provides a unique perspective of the state of the art in svms by taking the only approach that focuses on classification rather than covering the theoretical

aspects the book clarifies the characteristics of two class svms through their extensive analysis presents various useful architectures for multiclass classification and function approximation problems and discusses kernel methods for improving generalization ability of conventional neural networks and fuzzy systems ample illustrations examples and computer experiments are included to help readers understand the new ideas and their usefulness this book supplies a comprehensive resource for the use of svms in pattern classification and will be invaluable reading for researchers developers students in academia and industry

i was shocked to see a student s report on performance comparisons between support vector machines svms and fuzzy classifiers that we had developed with our best endeavors classification performance of our fuzzy classifiers was comparable but in most cases inferior to that of support vector machines this tendency was especially evident when the numbers of class data were small i shifted my research efforts from developing fuzzy classifiers with high generalization ability to developing support vector machine based classifiers 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 using real world benchmark data readers interested in the theoretical aspect of support vector machines should refer to books such as 109 215 256 257

this book provides a systematic and focused study of the various aspects of twin support vector machines twsvm and related developments for classification and regression in addition to presenting most of the basic models of twsvm and twin support vector regression twsvr available in the literature it also discusses the important and challenging applications of this new machine learning methodology a chapter on additional topics has been included to discuss kernel optimization and support tensor machine topics which are comparatively new but have great potential in applications it is primarily written for graduate students and researchers in the

area of machine learning and related topics in computer science mathematics electrical engineering management science and finance

this work reviews the state of the art in svm and perceptron classifiers a support vector machine svm is easily the most popular tool for dealing with a variety of machine learning tasks including classification svms are associated with maximizing the margin between two classes the concerned optimization problem is a convex optimization guaranteeing a globally optimal solution the weight vector associated with svm is obtained by a linear combination of some of the boundary and noisy vectors further when the data are not linearly separable tuning the coefficient of the regularization term becomes crucial even though svms have popularized the kernel trick in most of the practical applications that are high dimensional linear svms are popularly used the text examines applications to social and information networks the work also discusses another popular linear classifier the perceptron and compares its performance with that of the svm in different application areas

support vectors machines have become a well established tool within machine learning they work well in practice and have now been used across a wide range of applications from recognizing hand written digits to face identification text categorisation bioinformatics and database marketing in this book we give an introductory overview of this subject we start with a simple support vector machine for performing binary classification before considering multi class classification and learning in the presence of noise we show that this framework can be extended to many other scenarios such as prediction with real valued outputs novelty detection and the handling of complex output structures such as parse trees finally we give an overview of the main types of kernels which are used in practice and how to learn and make predictions from multiple types of input data table of contents support vector machines for classification kernel based models learning with kernels

support vector machines svms are among the most important recent developments in pattern

recognition and statistical machine learning they have found a great range of applications in various fields including biology and medicine however biomedical researchers often experience difficulties grasping both the theory and applications of these important methods because of lack of technical background the purpose of this book is to introduce svms and their extensions and allow biomedical researchers to understand and apply them in real life research in a very easy manner the book is to consist of two volumes theory and methods volume 1 and case studies volume 2

this book presents topical research in the study of support vector machines topics discussed include the support vector machine in medical imaging monthly air pollution modeling using support vector machine techniques in spain support vector machines for image interpolation schemes in image zooming and color array interpolation using svm for the prediction of the ultimate capacity of driven piles in cohesionless soils svm in medical classification tasks and pattern recognition for machine fault diagnosis using support vector machines

this book covers in the first part the theoretical aspects of support vector machines and their functionality and then based on the discussed concepts it explains how to find tune a support vector machine to yield highly accurate prediction results which are adaptable to any classification tasks the introductory part is extremely beneficial to someone new to learning support vector machines while the more advanced notions are useful for everyone who wants to understand the mathematics behind support vector machines and how to find tune them in order to generate the best predictive performance of a certain classification model

support vector machines optimization based theory algorithms and extensions presents an accessible treatment of the two main components of support vector machines svms classification problems and regression problems the book emphasizes the close connection between optimization theory and svms since optimization is one of the pillars on which svms are built the authors share insight on many of their research achievements they give a precise interpretation of

statistical leaning theory for c support vector classification they also discuss regularized twin svms for binary classification problems svms for solving multi classification problems based on ordinal regression svms for semi supervised problems and svms for problems with perturbations to improve readability concepts methods and results are introduced graphically and with clear explanations for important concepts and algorithms such as the crammer singer svm for multi class classification problems the text provides geometric interpretations that are not depicted in current literature enabling a sound understanding of svms this book gives beginners as well as more experienced researchers and engineers the tools to solve real world problems using svms

support vector machines svms represent a breakthrough in the theory of learning systems it is a new generation of learning algorithms based on recent advances in statistical learning theory designed for the undergraduate students of computer science and engineering this book provides a comprehensive introduction to the state of the art algorithm and techniques in this field it covers most of the well known algorithms supplemented with code and data one class multiclass and hierarchical svms are included which will help the students to solve any pattern classification problems with ease and that too in excel key features extensive coverage of lagrangian duality and iterative methods for optimization separate chapters on kernel based spectral clustering text mining and other applications in computational linguistics and speech processing a chapter on latest sequential minimization algorithms and its modifications to do online learning step by step method of solving the svm based classification problem in excel kernel versions of pca cca and ica the cd accompanying the book includes animations on solving svm training problem in microsoft excel and by using svmlight software in addition matlab codes are given for all the formulations of svm along with the data sets mentioned in the exercise section of each chapter

this book constitutes the refereed proceedings of the first international workshop on pattern recognition with support vector machines svm 2002 held in niagara falls canada in august 2002 the 16 revised full papers and 14 poster papers presented together with two invited contributions were carefully reviewed and selected from 57 full paper submissions the papers presented span the

whole range of topics in pattern recognition with support vector machines from computational theories to implementations and applications

a comprehensive introduction to support vector machines and related kernel methods

a comprehensive introduction to this recent method for machine learning and data mining

this book focuses on least squares support vector machines ls svms which are reformulations to standard svms ls svms are closely related to regularization networks and gaussian processes but additionally emphasize and exploit primal dual interpretations from optimization theory the authors explain the natural links between ls svm classifiers and kernel fisher discriminant analysis bayesian inference of ls svm models is discussed together with methods for imposing sparceness and employing robust statistics the framework is further extended towards unsupervised learning by considering pca analysis and its kernel version as a one class modelling problem this leads to new primal dual support vector machine formulations for kernel pca and kernel cca analysis furthermore ls svm formulations are given for recurrent networks and control in general support vector machines may pose heavy computational challenges for large data sets for this purpose a method of fixed size ls svm is proposed where the estimation is done in the primal space in relation to a nystrom sampling with active selection of support vectors the methods are illustrated with several examples

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