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Abstract. We briefly describe the main ideas of statistical learning theory, support vector machines, and kernel feature spaces.

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Bernhard Schölkopf is Director at the Max Planck Institute for Intelligent Systems in Tübingen, Germany. He is coauthor of Learning with Kernels (2002) and is a coeditor of Advances in Kernel Methods: Support Vector Learning (1998), Advances in Large-Margin Classifiers (2000), and Kernel Methods in Computational Biology (2004), all published by the MIT Press.

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7 Modularity Basic approach to using kernel methods is: Choose an algorithm that uses only inner products between inputs Combine this algorithm with a kernel function that calculates inner products between input images in a feature space Using kernels, algorithm is then implemented in a high-dimensional space Another nice

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Machine learning, reproducing kernels, support vector machines, graph-ical models. 1171. 1172 T. HOFMANN, B. SCHÖLKOPF

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AND A. J. SMOLA space, our estimation methods are linear, but as long as we can formulate every-thing in terms of kernel evaluations, we never explicitly have to compute in the

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Keywords: multiple kernel learning, string kernels, large scale optimization, support vector machines, support vector regression, column generation, semi-infinite linear programming 1.

Introduction Kernel based methods such as support vector machines (SVMs) have proven to be powerful for a wide range of different data analysis problems.

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kernel feature spaces and then proceed to kernel based learning in supervised and unsupervised scenarios including practical and algorithmic considerations. We illustrate the usefulness of kernel algorithms by finally discussing applications such as optical character recognition (OCR) and ...

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Kernel Methods for Pattern Analysis, Cambridge University Press
Klaus-Robert Müller, Sebastian Mika, Gunnar Rätsch, Koji Tsuda,
and Bernhard Schölkopf. (2001) An Introduction to Kernel-Based
Learning Algorithms. IEEE Transactions On Neural Networks,
Vol. 12, No. 2, March 2001 Nello Cristianini. Kernel Methods for
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LEARNING EQUIVARIANT FUNCTIONS WITH MATRIX VALUED KERNELS Z_k (isomorphic to the vector-valued RKHS of k), where the vector-valued coefficients live in Y , that is, $Z_k = \{f(x) = \sum_i k(x; x_i) a_i \mid x_i \in X; a_i \in Y\}$. We assume the reader is familiar with basics in kernel methods, tensor algebra and representation theory.

2.2 Motivation

Our goal is to learn functions $f : X \rightarrow Y$ from learning samples $f(x_i) \dots$

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