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Learning With Kernels Schoelkopf And

Bernhard Schölkopf. 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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Adaptive Computation and Machine Learning. English. By (author) Bernhard Schoelkopf , By (author) Alexander J. Smola. Share. A comprehensive introduction to Support Vector Machines and related kernel methods. In the 1990s, a new type of learning algorithm was developed, based on results from statistical learning theory: the Support Vector Machine (SVM).

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Learning with Kernels provides an introduction to SVMs and related kernel methods. Although the book begins with the basics, it also includes the latest research. It provides all of the concepts necessary to enable a reader equipped with some basic mathematical knowledge to enter the world of machine learning using theoretically well-founded ...

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A comprehensive introduction to Support Vector Machines and related kernel methods. In the 1990s, a new type of learning algorithm was developed, based on results from statistical learning theory: the Support Vector Machine (SVM). This gave rise to a new class of theoretically elegant learning machines that use a central concept of SVMs—kernels—for a number of learning tasks.

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Learning with Kernels | The MIT Press

These methods formulate learning and estimation problems in a reproducing kernel Hilbert space (RKHS) of functions defined on the data domain, expanded in terms of a kernel. Working in linear spaces of function has the benefit of facilitating the construction and analysis of learning algorithms while at the same time allowing large classes of ...

Hofmann , Schölkopf , Smola : Kernel methods in machine ...

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Regularization | Learning with Kernels: Support Vector ...

An introduction to kernel-based learning algorithms. KR Muller, S Mika, G Ratsch, K Tsuda, B Scholkopf. IEEE Transactions on Neural Networks 12 (2), 181-201, 2001. 4293: 2001: Learning with local and global consistency. D Zhou, O Bousquet, TN Lal, J Weston, B Schölkopf.

Bernhard Schölkopf - Google Scholar

This web page provides information, errata, as well as about a third of the chapters of the book Learning with Kernels, written by Bernhard Schölkopf and Alex Smola (MIT Press, Cambridge, MA, 2002). Hereyou can download the slides of a short course on learning theory, SVMs, and kernel methods. It was given at a summer school at the Australian ...

Learning with Kernels - book homepage

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arXiv:math/0701907v3 [math.ST] 1 Jul 2008 - Kernel Machines

This is Bernhard Schölkopf's talk on Kernels, given at the Machine Learning Summer School 2013, held at the Max Planck Institute for Intelligent Systems, in Tübingen, Germany, from 26 August to ...

Kernels - Bernhard Schölkopf - MLSS 2013 Tübingen

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Learning with Kernels: Support Vector Machines ...

Some chapters of our book Learning with Kernels. Review paper on kernel methods in the Annals of Statistics. Short high-level introduction on statistical learning theory (in German) that appeared in the 2004 Jahrbuch of the Max Planck Society. Obituary for Alexej Chervonenkis (NIPS 2014).

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Books - Alex Smola

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Learning with Kernels: Support Vector Machines ...

We investigate the learning rate of multiple kernel learning (MKL) with ℓ_1 and elastic-net regularizations. The elastic-net regularization is a composition of an ℓ_1 -regularizer for inducing the sparsity and an ℓ_2 -regularizer for controlling the smoothness. We focus on a sparse setting where the total number of kernels is ...