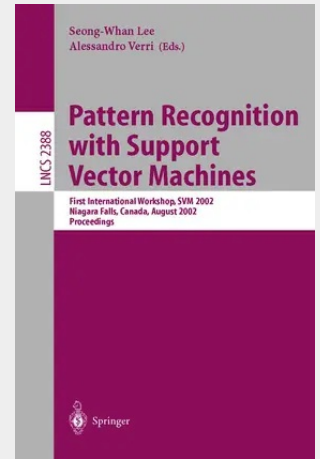


Pattern Recognition with Support Vector Machines

First International Workshop, SVM 2002, Niagara Falls, Canada, August 10, 2002.
Proceedings

With their introduction in 1995, Support Vector Machines (SVMs) marked the beginning of a new era in the learning from examples paradigm. Rooted in the Statistical Learning Theory developed by Vladimir Vapnik at AT&T, SVMs quickly gained attention from the pattern recognition community due to a number of theoretical and computational merits. These include, for example, the simple geometrical interpretation of the margin, uniqueness of the solution, statistical robustness of the loss function, modularity of the kernel function, and overfit control through the choice of a single regularization parameter. Like all really good and far reaching ideas, SVMs raised a number of interesting problems for both theoreticians and practitioners. New approaches to Statistical Learning Theory are under development and new and more efficient methods for computing SVM with a large number of examples are being studied. Being interested in the development of trainable systems ourselves, we decided to organize an international workshop as a satellite event of the 16th International Conference on Pattern Recognition emphasizing the practical impact and relevance of SVMs for pattern recognition. By March 2002, a total of 57 full papers had been submitted from 21 countries. To ensure the high quality of workshop and proceedings, the program committee selected and accepted 30 of them after a thorough review process. Of these papers 16 were presented in 4 oral sessions and 14 in a poster session. The papers span a variety of topics in pattern recognition with SVMs from computational theories to their implementations. In addition to these excellent presentations, there were two invited papers by Sayan Mukherjee, MIT and Yoshua Bengio, University of Montreal.

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