

A Parallel Decomposition Training Algorithm for Multi-class Kernel-based Vector Machines

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Abstract: In this talk, we discuss the kernel based machine learning problems. We consider the multi-class problems, which is an extension to the standard supporting vector machine, the two-class problem. One of the major difficulties for kernel based machine learning is that the kernel matrices are dense and large scale. We present an decomposition algorithm and its parallel implementation. Numerical results are also reported.

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