

Distributed Learning with Manifold Regularization

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We consider a distributed learning algorithm with the least squares regularization and an extension with manifold regularization that enforces smoothness with respect to the structure of input data. This scheme is studied under a framework of semi-supervised learning in a reproducing kernel Hilbert space. We show error bounds in the L^2 -metric by using a novel second order decomposition of operator differences and the global output function of distributed learning is a good approximation of the regression function.

References

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