Lecture 15: Stability of Tikhonov Regularization
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Description

We briefly review the generalization bounds of last lecture before turning to our main goal -- using the stability approach to prove generalization bounds for Tikhonov regularization in RKHS. In order to apply the bounds, we need to prove that Tikhonov regularization is uniformly stable with beta=O(1/n), and also to bound the loss function. In the process, we will gain additional insight into the mathematics of optimization and RKHS.

Suggested Reading