

Thomas Hamm

Entropy estimates for localized Gaussian RKHSs on manifolds

In this talk I will present bounds on the entropy numbers of spatially localized Gaussian RKHSs on manifolds as well as explain the key concepts of the proof of these bounds. Subsequently I will sketch how to use these bounds to derive improved learning rates for SVMs using such kernels in the case where the data generating distribution is supported on a low dimensional manifold.