Error Analysis and Sparse Representation in Indefinite Kernel Machines

Hongwei Sun

University of Jinan, China

ss_sunhw@ujn.edu.cn

We study the properties of the least square regression with indefinite kernels and ℓ_1 coefficient regularization. Asymptotic learning rates are deduced under smoothness condition on the kernel by a step stone technique. Sparsity of the representation of the solution is discussed both theoretically and empirically.

This talk is based on Joint work with Dr. Qiang Wu.