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Some Mathematical Analysis in Learning Theory

Abstract

Analyzing and processing big data has been an important and challenging task in various fields of science and technology. Machine learning and learning algorithms aim at learning function relations or data structures from samples and are widely applied in data analysis. Learning theory provides rigorous mathematical foundations of machine learning. In this talk we will briefly describe some mathematical analysis in learning theory. Least squares regularized regression, support vector machine classification, and minimum error entropy principle will be demonstrated.

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