



Temple University

ANNOUNCES A
COLLOQUIUM

Dr. Yuhong Guo

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will speak on

Supervised Dimensionality Reduction Via Convex Optimization

Time: 3:00 – 4:00 PM

Date: Friday, November 13, 2009

Place: Alter Hall 746

Abstract

Supervised dimensionality reduction has been gaining attention, owing to the realization that data labels are often available and indicate important underlying structure in the data. In this work, we present a novel convex supervised dimensionality reduction approach based on exponential family PCA, which is able to avoid the local optima of typical EM learning. Moreover, by introducing a sample-based approximation to exponential family models, it overcomes the limitation of the prevailing Gaussian assumptions of standard PCA, and produces a kernelized formulation for nonlinear supervised dimensionality reduction. The advantage of our global optimization approach is demonstrated by empirical results over both synthetic and real data.

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