

The Fox School of Business

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Department of Statistics



Temple University

ANNOUNCES A
COLLOQUIUM

Dr. Junhui Wang

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will speak on

On Large Margin Hierarchical Classification

Time: 3:00 – 4:00 PM

Date: Wednesday, November 28, 2007

Place: Tuttleman Learning Center 401A

Abstract

Hierarchical classification is critical to knowledge and context management as well as knowledge exploration, as in gene function classification and discovery and document categorization. In hierarchical classification, an input is classified by a structured hierarchy. In a situation as such, the central issue is how to effectively utilize inter-class relationship to improve the generalization performance of flat classification ignoring such dependency. In this talk, a novel large margin method based on constraints characterizing multi-path hierarchy is presented within the framework of regularization. In particular, I will discuss three aspects: (1) the idea and methodology development; (2) computational tools; (3) a statistical learning theory. Numerical examples will be provided to demonstrate the advantage of our proposed methodology against other existing competitors. An application to gene function prediction and discovery will be discussed.

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