Department of Computer Science and Engineering

Distinguished Speakers Series Presents

John Lafferty, School of Computer Science
Carnegie Mellon University

Nonparametric Statistical Learning in High Dimensions

Machine learning is a synthesis of computational and statistical thinking. The field has emerged as an academic discipline in its own right, through a confluence of statistics and computer science during the last decade. This talk presents an overview of some of our recent work in statistical machine learning that attempts to tackle high dimensional data using nonparametric methods, which roughly means that we don't impose strong assumptions. In particular, we present new methods for learning sparse functions in high dimensional data with scalable, practical algorithms. Under appropriate assumptions, these methods are able to overcome the computational and statistical curses of dimensionality when there is low dimensional structure in the data. The talk is based on joint work with Larry Wasserman, Martin Wainwright, Pradeep Ravikumar, and Han Liu.

Thursday November 13, 2008

3:30–4:30 PM

University at Buffalo North Campus - 330 Student Union

This talk is free and open to the public - Refreshments for attendees after the talk in 224 Bell Hall
For more information, please call 645-3180