





THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

DIRECTOR'S SEMINAR

SPEAKER:

ROBERT TIBSHIRANI

Department of Preventive Medicine and Biostatistics and Department of Statistics University of Toronto

On the Topic:

"Handwritten Digit Recognition via Deformable Prototypes"

We present a new method for classifying handwritten characters, in particular digits. In our approach each character in the alphabet is represented by a prototype, which is a piecewise-linear curve. A prototype is fitted to a point-set representation of the image by least squares, allowing a free affine transformation in R2. Every prototype is fitted to a given image, and then classification is based on the matching statistics. The procedure is demonstrated on a large database of handwritten zipcodes.

This is joint work with Trevor Hastie of AT&T Bell Laboratories.

Monday, May 3, 1993 4:00 pm, room 3018

at

The Fields Institute

Refreshments 3:00 pm, Common Room