

The University of Chicago
Department of Statistics
First Year PhD Presentation

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Part-Based Statistical Mixture Models for 2D Objects

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ABSTRACT

In this presentation I will discuss statistical mixture models for mid-level binary local features and 2D objects. The resulting models are straightforward to train using the EM algorithm, and classification reduces to maximizing likelihoods. Class models are trained separately and pre-training decision boundaries between classes is thus avoided. Experimental results will be demonstrated using the MNIST handwritten digits and artificially deformed LaTeX characters.

This talk is based on the work by Elliot Joel Bernstein and Yali Amit.