



The University of Chicago
Department of Statistics

Seminars for First Year Ph.D. Students

RINA FOYGEL
Department of Statistics
The University of Chicago

Deformable Templates in Image Analysis and Classification

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110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

I will present the paper, “Toward a Coherent Statistical Framework for Dense Deformable Template Estimation” (S. Allasonniere, Y. Amit, A. Trouve, 2005). This paper defines a Bayesian approach to the problem of estimating templates and deformation structures from a given set of grayscale images, The computational challenges of the model are approached through a series of approximations, and the model is shown to be very successful in the classification of hand-written numerical digits.