The University of Chicago

Department of Statistics

Seminars for First Year Ph.D. Students

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Machine Learning Using Generative Modelling with Dense Deformable Parts

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ABSTRACT

We introduce a statistical model for grayscale images of objects. The model uses deformable templates and allows for a wide range of object classes to be modelled. We present the motivation for the model and an estimation strategy based on the EM algorithm. A particular focus is made on images of faces. Applications of the model are presented and discussed.