



The University of Chicago
Department of Statistics

SEMINAR SERIES

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Object Detection with Deformable Models and Beyond

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Refreshments following the seminar in Eckhart 110.

ABSTRACT

The problem of detecting objects in images has important applications in a wide range of areas, including in robotics, image retrieval and medical image analysis. One of the major challenges in the area involves developing methods that can effectively model variations in appearance that occur within a class of objects. In this talk I will describe a system we have built to address this challenge. The system is based on mixtures of deformable part models. These models are trained using new methods for discriminative learning from weakly labeled data. The approach can be used to build object detection systems that are efficient and achieve state-of-the-art results. I will also outline how we can handle more significant variations in the appearance of objects by extending the framework of deformable models using visual grammars.

For further information and about building access for persons with disabilities, please contact Laura Rigazzi at 773.702.8333 or send email (lrigazzi@galton.uchicago.edu). If you wish to subscribe to our email list, please visit the following website: <https://lists.uchicago.edu/web/arc/statseminars>.