

UCLA

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Learning Generative Models for Natural Image Patterns

Ying Nian Wu, PhD

Professor

University of California Los Angeles, Department of Statistics

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3:30pm - 4:30pm, CHS 33-105A

Refreshments served at 3:00 PM in room 51-254 CHS

ABSTRACT: Images of natural scenes contain rich varieties of patterns. Knowledge of these image patterns can be represented by statistics models that can generate such patterns. Such generative models can be learned from training images with minimal supervision, and the learned models can be useful for object recognition and scene understanding. In this talk, I shall present our recent work on a class of generative models of object patterns and explain their connections to sparse linear regression and Markov random fields. The talk is based on the joint work with Jianwen Xie, Wenze Hu and Song-Chun Zhu.