Pictorial Structure Models for Object Category Recognition

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Abstract

Recognizing and localizing objects in images has been one of the central problems in computer vision for over 40 years. Recently there has been substantial progress, much of it resulting from methods based on deformable template models. This talk will discuss such models, focusing on Pictorial Structure models, go into some detail on the algorithms that make the methods work, and consider both generative and discriminative formulations of the learning problem.

Syllabus: object category recognition, relational models, scene context, distance transforms, Viterbi algorithm, generative and discriminative learning.