



Tuesday 17 July 2012

Object Recognition

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Abstract

I will present a historical review of the main research themes in object recognition over the last fifty years, survey the current state of the art, and spend some time exploring the poselets framework for various recognition tasks. See <http://www.eecs.berkeley.edu/Research/Projects/CS/vision/shape/poselets/> for references.

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Recognition, Reconstruction and Reorganization

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Abstract

I will argue that further progress on these classic problems of computational vision requires us to study the interaction among these processes. Each of these needs essential information computed by the others. I will discuss some concrete results we have obtained on monocular reconstruction and on combining top-down templates with bottom-up segments. I will also speculate on fruitful directions for future research.

Keywords: Recognition, Reconstruction, Reorganization