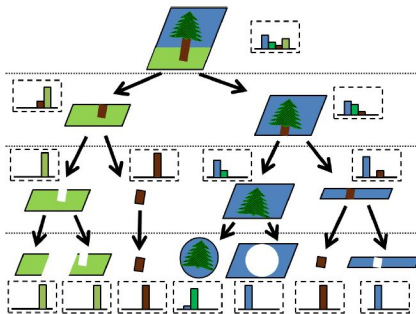# Stacked Hierarchical Labeling
D. Munoz, J. A. Bagnell and M. Hebert (ECCV 2010)

- Hierarchical approach for labeling semantic objects and regions in scenes
- Using a decomposition of the image in order to encode relational and spatial information
- Directly training a hierarchical inference procedure inspired by message passing
- Breaking the complex inference problem into a hierarchical series of simple subproblems
- Each subproblem is designed to capture the image and contextual statistics in the scene
- Training in sequence to ensure robustness to likely errors earlier in the inference sequence
- Evaluation on MSRC-21 and Stanford Background datasets