Object-Graphs for Context-Aware Category Discovery

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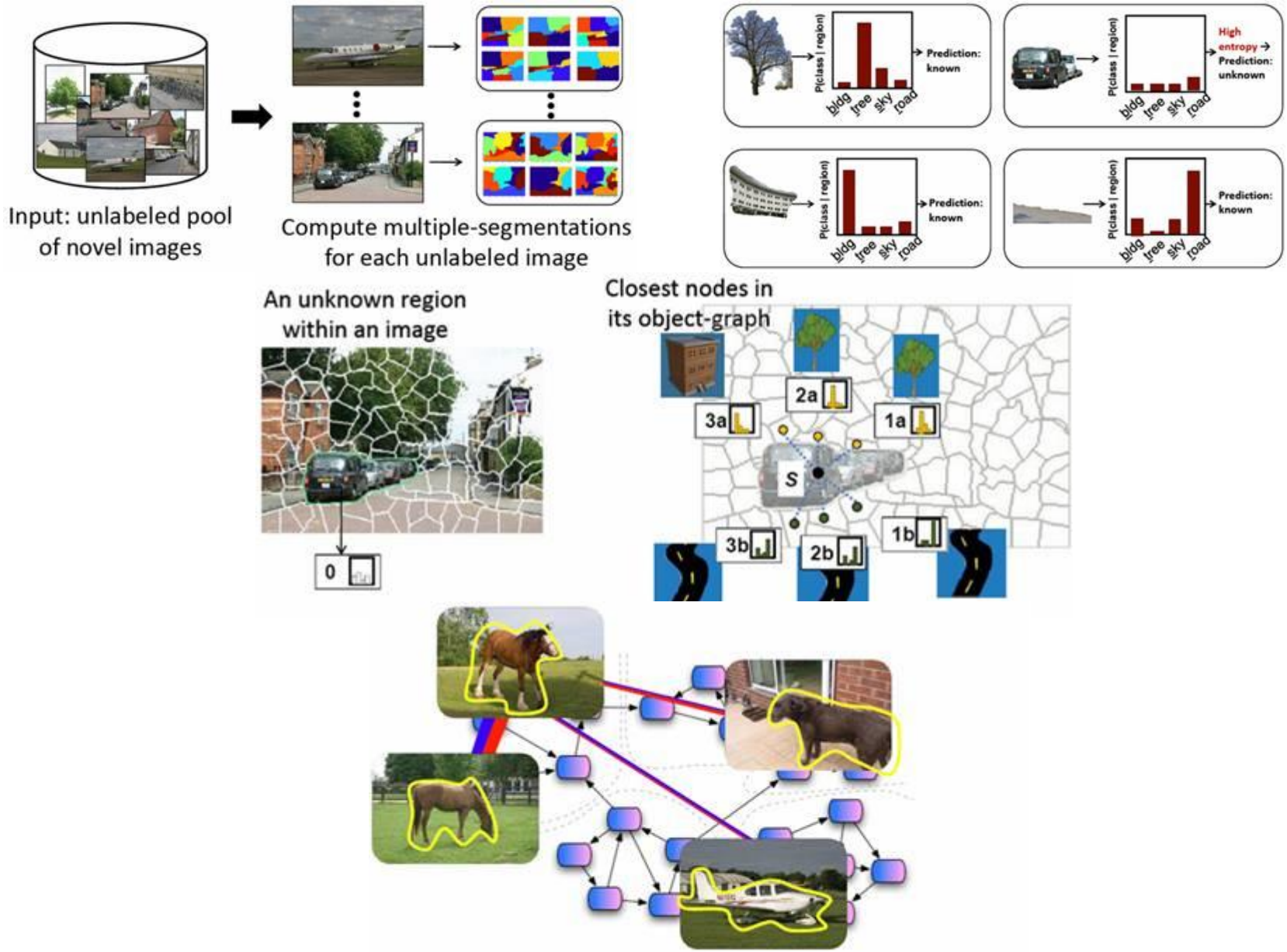
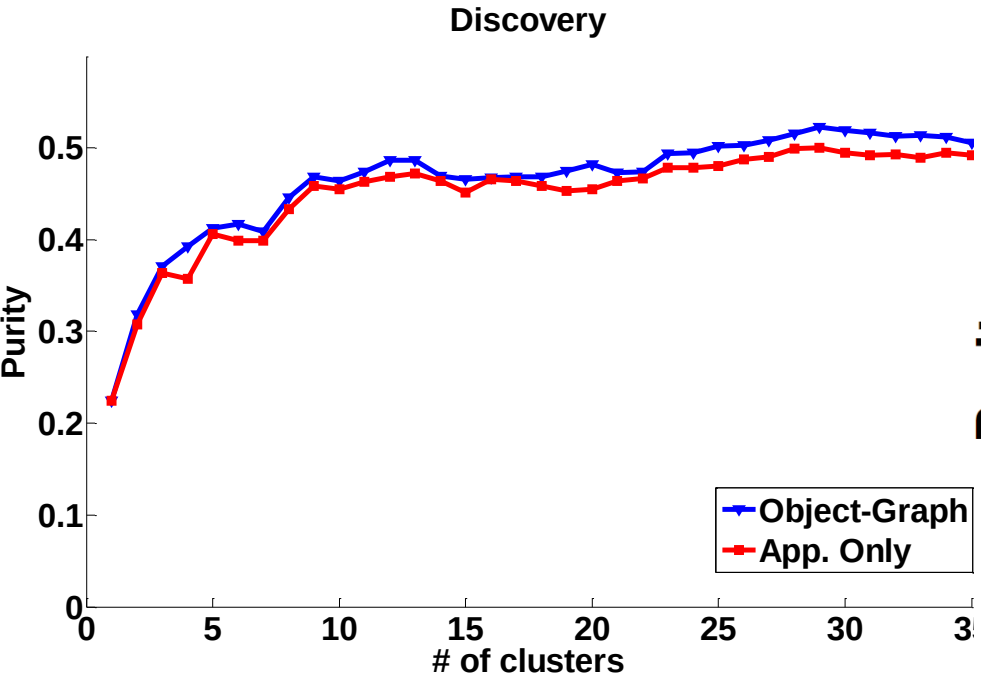


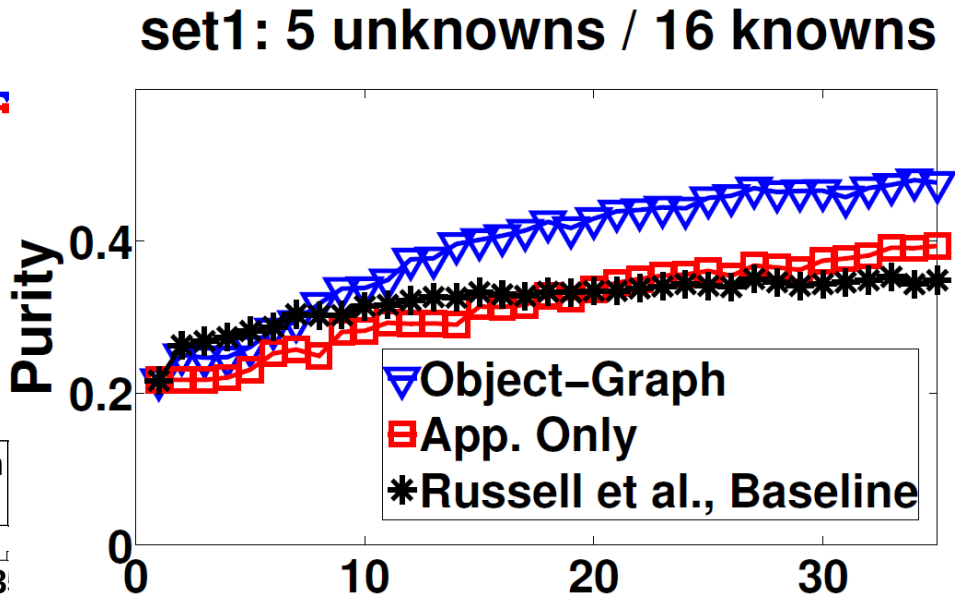
$$K(s_i, s_j) = K_{app}(s_i, s_j) + K_{obj-graph}(s_i, s_j)$$

MSRC-v2 set1

- Unknown (5): building, tree, cow, airplane, bicycle
- **Known** (16): grass, sheep, sky, water, face, car, flower, sign, bird, chair, road, cat, dog, body, boat
- Void: void, horse, mountain

Replicating result



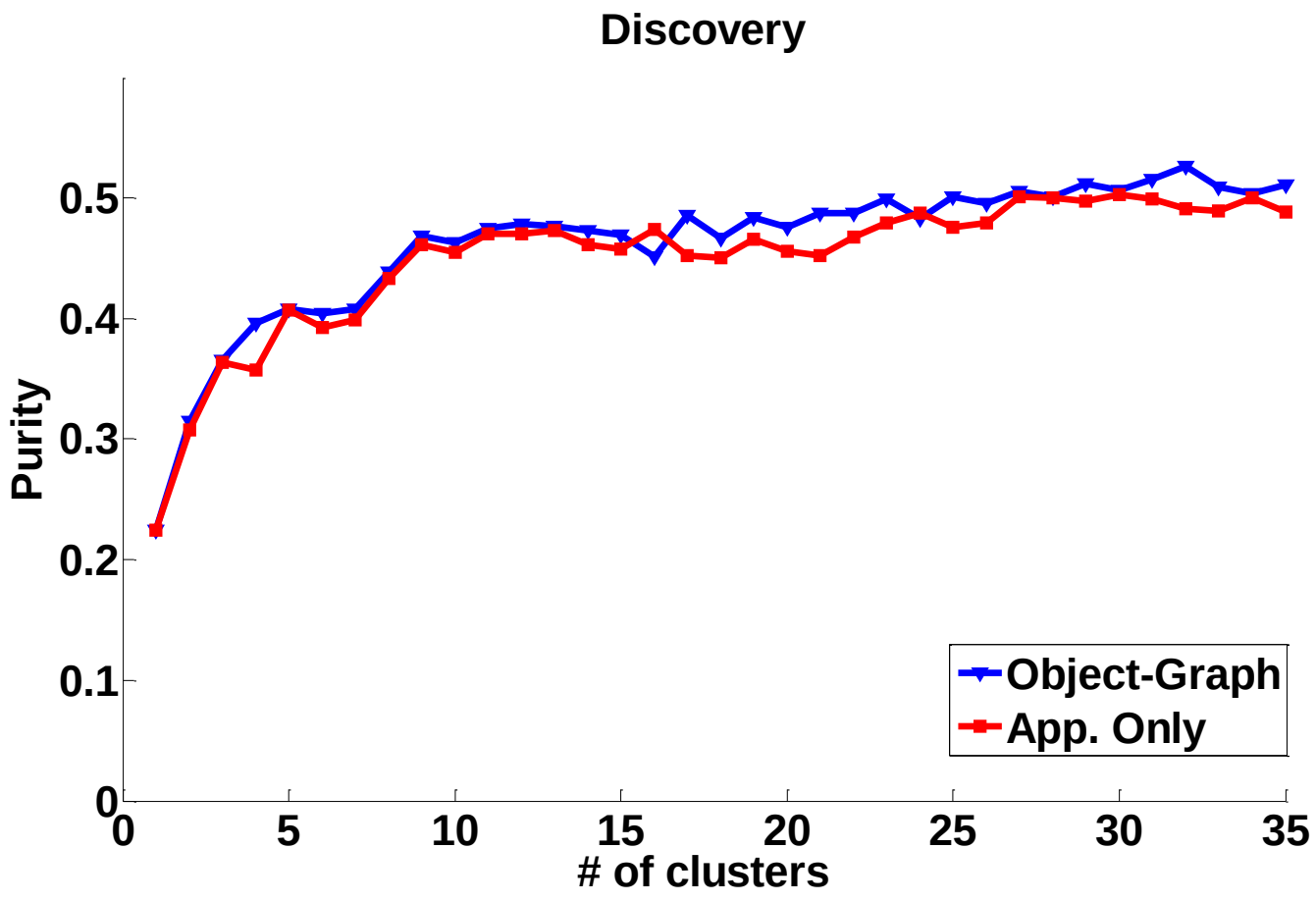


Low quality known object classifiers

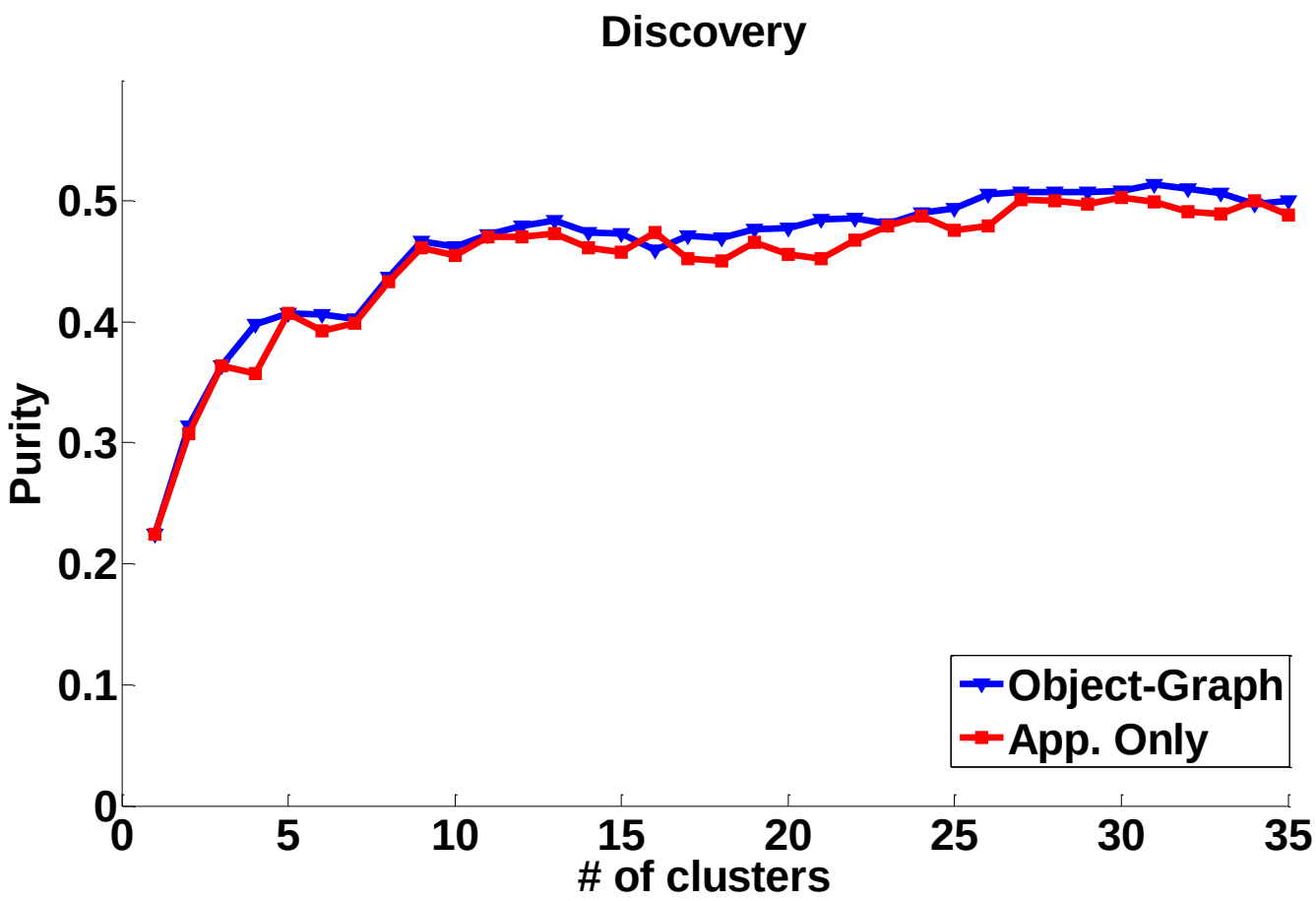
Sampling

- 1/2 training data for each known class (54% data)
- 1/3 training data for each known class (44% data)
- 1/4 training data for each known class (33% data)

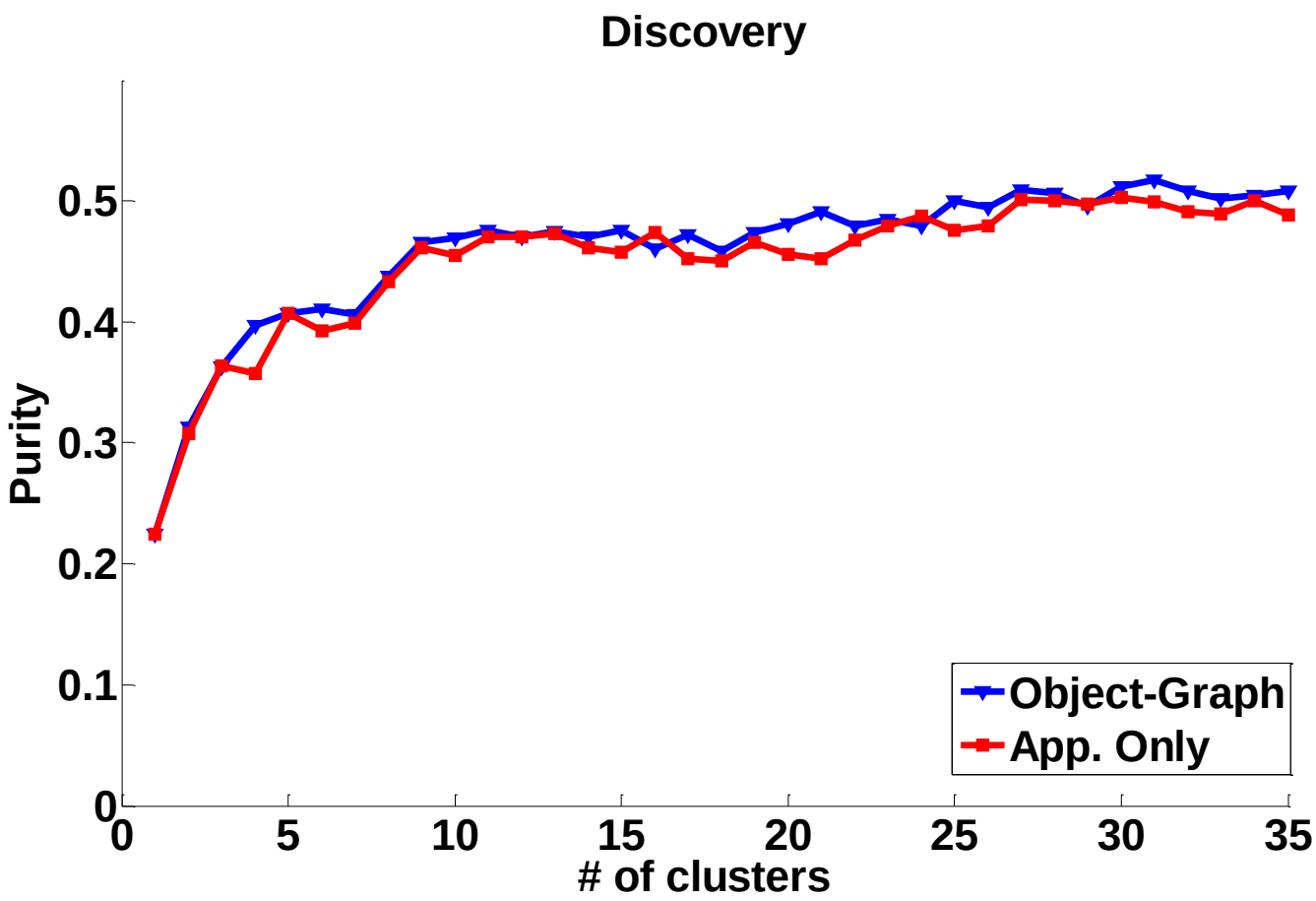
1/2 training data



1/3 training data



1/4 training data



Overall (#run = 3 instead of default 10)