Selective Search for Object Recognition

Summary

- 1. Propose a hierarchical, bottom-up and class-agnostic strategy for detecting object location.
- 2. The approach works by: . Create an midral list of regions . Greedily group regions together based on pre-defined emilarity function.
- 3. Argue that there are a variety of reasons for a region to form an object. Therefore, a single grouping strategy can not capture all object locations -> Propose diversification strageties based on varying the color space, similarity function and initial regions. -> This is to ensure the copturing of all possible obj locations.

4. Proposes 3 variants:

" Selective Search " "Selective Search" Fast "Single streetegy" Quality

from left to right:

- . Qualify of obj proposal, measured by Mean Average Best Overlap, ncuases
- . Computational cost incuases.