Image Segmentation and Scene Understanding

Xiaohe Shi
Supervisor: Stephen Gould
Background

Scene understanding:
Motivation:

For people to easily do scene understanding

Different algorithms:
Pixel CRF, Region-based model...

Different datasets:
21-class MSRC dataset, 8-class Stanford Background dataset...
Website for Scene Understanding

Image

Pre-processing

Previously processed?

Y

Load pre-computed result

N

Segment image by one selected model and store result

Result

Semantic Scene Understanding

This web application allows users to submit images to the server and have the segmented image returned.


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Relative Location Prior Model

- Relative location information:
Labeling pixels with relative location information:

- Make initial predictions
- Generate relative location features
- Appearance Features
- Relative Location Maps
- Make Final Predictions