

Quantitative Comparisons

Algorithms	PRI	VI	SegCover
Ncuts	0.74	2.5	0.38
MS	0.77	2.5	0.44
FH	0.77	2.1	0.52
gPb	0.81	2.0	0.58
PYdist	0.72	2.1	0.51
PYall	0.76	2.1	0.52

gPb	0.74	2.1	0.53
PYall	0.73	1.9	0.55

Berkeley Segmentation

- On BSDS, similar or better than all methods except gPb
- On LabelMe, performance of Spatial PY is better than gPb

LabelMe Scenes

Room for Improvement:

- Implementation efficiency and search run-time
- Histogram likelihoods discard too much information
- Most probable segmentation does not minimize Bayes risk