Piecewise Flat Embedding for Image Segmentation

Supplemental Materials

Yizhou Yu†  Chaowei Fang†‡  Zicheng Liao‡

† Department of Computer Science, The University of Hong Kong
‡ College of Computer Science and Technology, Zhejiang University
Figure 1 Embedding examples. Leftmost: input images; Others: four embedding images generated from mPb affinity using our method for the input image in each row.
Figure 2. Optimal results from contour-driven hierarchical segmentation (Part I). From left to right: Input image; Original gPb; Original MCG; Revised gPb with our embedding; Revised MCG with our embedding.
Figure 3. Optimal results from contour-driven hierarchical segmentation (Part II). From left to right: Input image; Original gPb; Original MCG; Revised gPb with our embedding; Revised MCG with our embedding.
Figure 4. Comparison of segmentation results from NCut and clustering-based segmentation algorithms (Part I). From left to right: Input image; Normalized Cut; spectral clustering using mPb affinity; weighted spectral clustering using NCut affinity; revised clustering-based segmentation using our embedding with mPb affinity.
Figure 5. Comparison of segmentation results from NCut and clustering-based segmentation algorithms (Part II). From left to right: Input image; Normalized Cut; spectral clustering using mPb affinity; weighted spectral clustering using NCut affinity; revised clustering-based segmentation using our embedding with mPb affinity.