Piecewise Flat Embedding for Image Segmentation

Supplemental Materials

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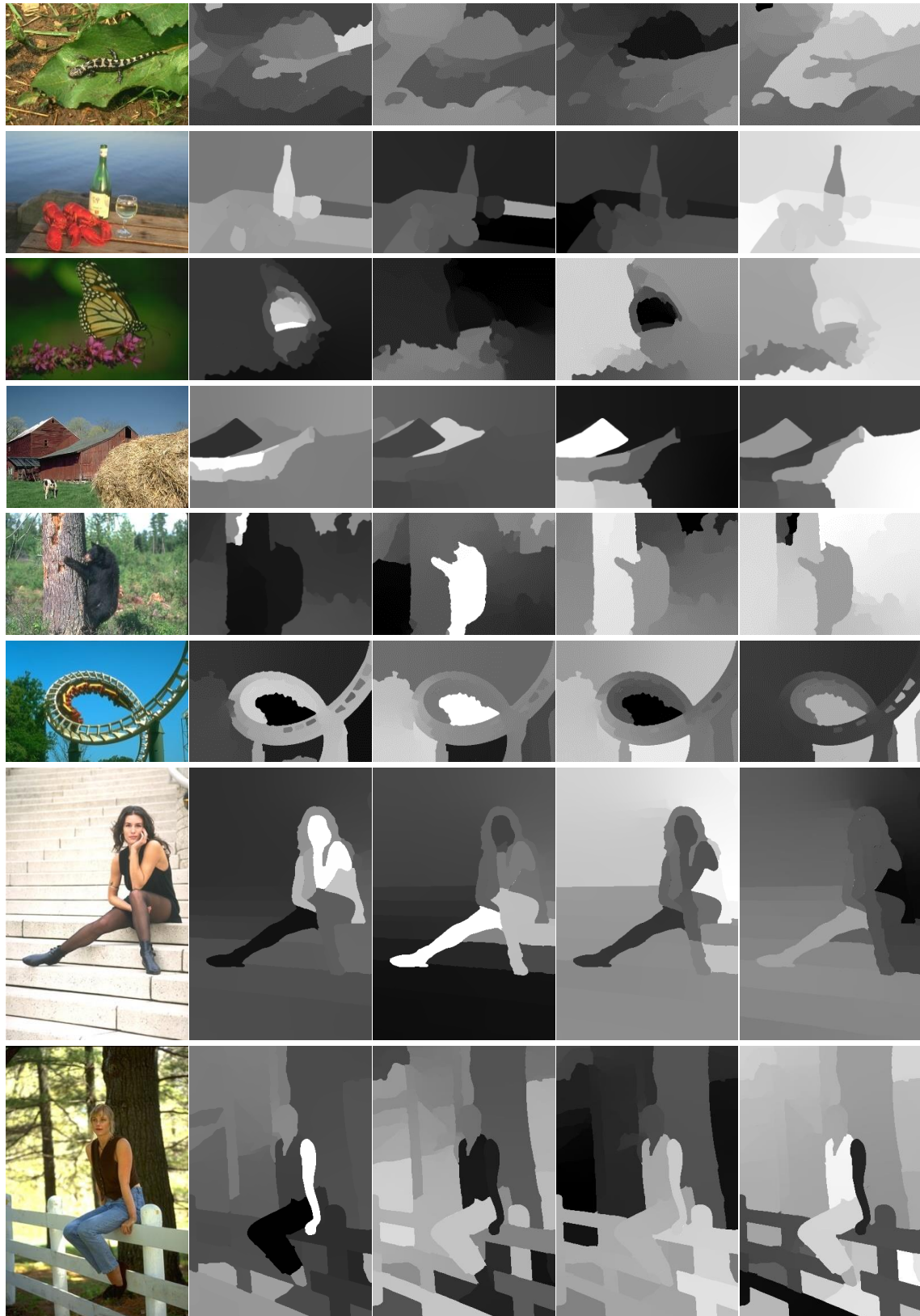‡ College of Computer Science and Technology, Zhejiang University

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.
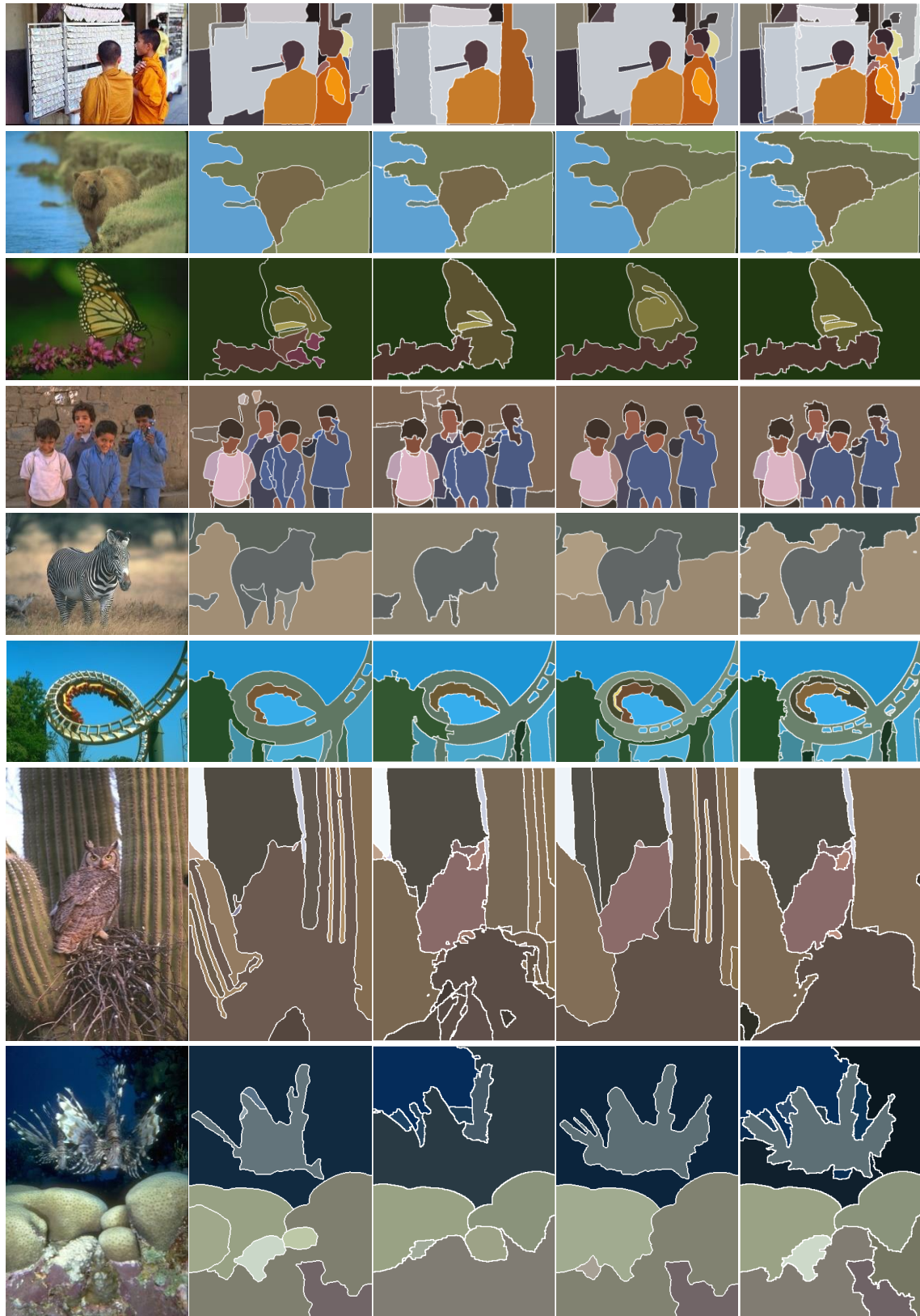
Figure 2. Optimal results from contour-driven hierarchical segmentation (Part I). From left to right: Input image; Original gPb; Original MCG; Revised gPb with our embedding; Revised MCG with our embedding.

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 <u>our embedding with mPb affinity</u>.

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 <u>our embedding with mPb affinity</u>.