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Revisiting Graph Construction for Fast Image Segmentation

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Highlights

- A novel way to construct graph for very fast image segmentation with global and local energy functions is proposed.
- Various high-level cues (co-occurrence and saliency) to help build the graphs are developed.
- A fast graph partition optimization objective is proposed.
- A multi-class segmentation method using simple EigenHistograms is proposed.
- Extensive experiments on BSDS500, PASCAL VOC, and COCO datasets are conducted to demonstrate the effectiveness of the proposed method.

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