Human-Centered Content-Based Image Retrieval

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HSI color space segmentation based on experimental data concerning human 11 color categories

- Visual representation of experimental data on human color categorization
- Clusters of categorized data
- Filled clusters
- Weighted Distance Map
- Edge extraction: Borders between color categories

* Created by Fast Exact Euclidean Distance (FEED) transforms

Recall & Precision of 4 CBIR systems

Image segmentation by agglomerative merging

Human color and texture categorization/classification

Parallel-sequential colorful texture analysis
- Optimal utilization of color information by human 11 color categories
- Color histogram and Color correlogram combined
- 94% correct classification
- 91% decrease in computational complexity

Shape extraction by pixelwise classification

CBIR Benchmark

More information?
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