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Human-Centered Content-Based Image Retrieval

Egon L. van den Broek, Eva M. van Rikxoort, Peter M. F. Kisters, Theo E. Schouten, and Louis G. Vuurpijl

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

Image segmentation by agglomerative merging

Shape extraction by pixelwise classification

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

Recall & Precision of 4 CBIR systems

CBIR Benchmark

More information?

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