

Analysis of Image Transforms for Sketch-based Retrieval

Diploma Thesis

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Outline

Introduction and Background

- Motivation

- Challenges of CBIR

- Anatomy of a CBIR System

Proposed Solution

- Acquisition

- The Curvelet Transform

- Feature Extraction

- Ranking

Results

- Benchmarking

- Cross-Domain Results

- Intra-Domain Results

Conclusions

Motivation

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Challenges of CBIR

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Anatomy of a CBIR System

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Acquisition

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The Curvelet Transform

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The Fast Discrete Curvelet Transform

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Global Feature Extraction

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Local Feature Extraction

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Ranking

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Benchmarking Method

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Cross-Domain Results

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Intra-Domain Results

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Conclusions

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