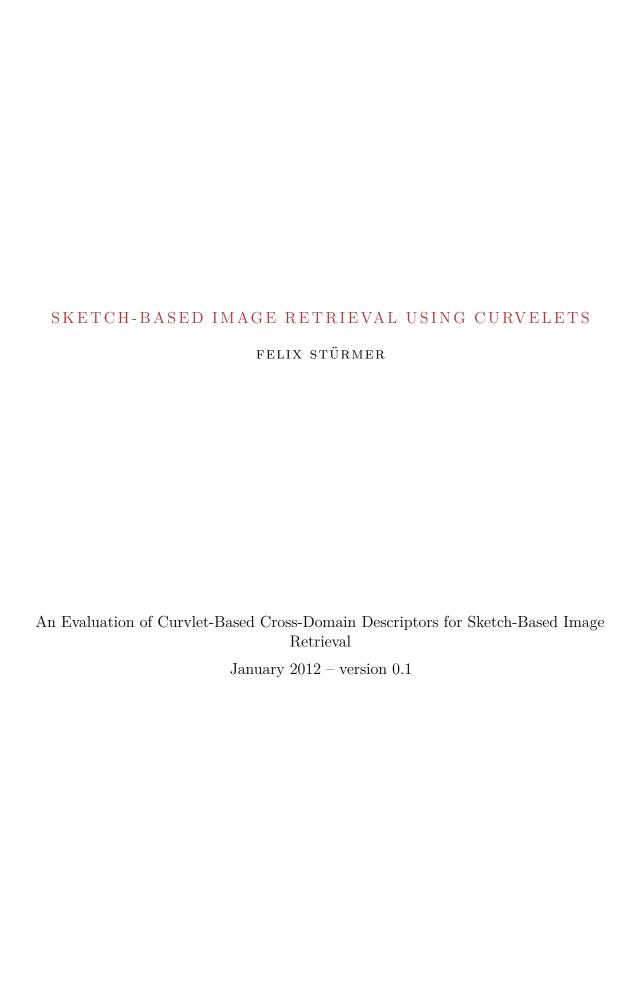
FELIX STÜRMER

$\begin{array}{c} {\rm SKETCH\text{-}BASED\ IMAGE\ RETRIEVAL\ USING} \\ {\rm CURVELETS} \end{array}$



Felix Stürmer: Sketch-Based Image Retrieval using Curvelets, An Evaluation of Curvlet-Based Cross-Domain Descriptors for Sketch-Based Image Retrieval, © January 2012

ABSTRACT

Short summary of the contents...

ACKNOWLEDGMENTS

acknowledgments go here... $\,$

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INTRODUCTION

Introduction goes here...

BACKGROUND & RELATED WORK

Most approaches can be characterized by looking at three stages in their processing pipeline:

- INPUT FORMAT The structure of the input data determines the amount of information available to the subsequent processing steps. Possible preprocessing steps include color space conversion and scaling.
- EXTRACTED FEATURES The large number of coefficients produced by the curvelet transform are reduced to a set of feature coefficients.
- DISTANCE METRIC In order to rank the images according to similarity a metric is used to calculate the distance in feature space between two sets of feature coefficients. The selection of a metric is often closely coupled with the feature extraction algorithm.

PROPOSED SOLUTION

Proposed solution goes here...

3.1 INPUT FORMAT

- Luma component (Y') of Y'UV representation
- Gradient magnitude of Sobel operator of luma component
- Canny edge map of luma component
- \bullet gPb

3.2 FEATURE EXTRACTION

- Global features: mean and standard deviation
- Local features: visual words via k-means clustering

3.3 DISTANCE METRIC

• Euclidean Distance

4

EXPERIMENTAL RESULTS

Experimental results go here...

5

ANALYSIS

Analysis goes here...

6

CONCLUSION

Conclusion goes here...

COLOPHON

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DECLARATION	
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Berlin, January 2012	
	Felix Stürmer