Zero-Shot Sketch-Based Image Retrieval with Disentangled Representation

Authors Anonymous

Abstract

pass

1. Introduction

The importance of our research area

Some progress in sketch based image retrieval

Difficulty in Zero-shot setup and some possible solutions

Our proposed methods and their advantages

itemize our contributions in this paper

2. Related Work

2.1. Sketch-based image retrieval

2.2. Zero-Shot Learning

2.3. Disentangled Representation

3. Methodology

3.1. Problem Definition and Overall model

3.2. Encoder

3.3. Generator

3.4. Discriminator

3.5. Loss Function

4. Experiment

4.1. Experiment Setup

4.1.1 Dataset

4.1.2 Implementation Details

4.2. Comparison

4.3. Ablation Study

4.4. Case study

5. Conclusion

6. To Discuss

- Whether to generator the whole image/sketch.

- If the poses between the image and the sketch are different, can the model learn the sketch information between image and sketch.

- Where to add the semantics information to further supervise the model's training.

References