

Sketch Understanding

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Abstract

From many difficulties of supermarket when the shopkeepers guess or introduce a product being suitable with the customer's descriptions, we start considering about drawing an object, we think that a description with drawing is better than another with saying. Unfortunately, we draw badly. We think it is better than if we can sketch an object we want to buy. We research and implement ABC to recognize sketch images, adjust parameters in available method. Adjusting parameters helps the method reached an accuracy of 82.65%, improve average accuracy by 7.23%. It is tested with the TU-Berlin benchmark.

Keyword: free-hand sketch, sketch recognition, sketch based image retrieval(SBIR).

ABC method is presented in section[4]. Content in section [5] is comparative evaluation with related work. We outline the experimental process and suggest a capable application in the future.

1. Introduction

One day, my friend went to my house. He saw my desk I had bought and he really love it. He want to buy it. He searched in Google or supermarkets websites, there are too many results but there is no one like my desk. I feel we really need a tool to sketch and recognize what we want to find. Why we solve this problem with sketch , not with color image? Because we think sketch images about an object are not too distinctive about color, decoration, etc. It is suitable for searching a general object. In 2017, there are many general methods to recognize sketch images...

We choose ABC (which is implement by XYZ), and we adjust many parameters in available method. Adjusting parameters helps the method reached an accuracy of 82.65%,improve average accuracy by 7.23. We realize this method is better for sketch images with more details.

We mention related works in section [2]. In section [3] we talk about data and issues related. Sketch recognition by