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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

Enhancing Sketch-based Image Retrieval by

Re-ranking and Relevance Feedback

ABSTRACT

Sketch-based image retrieval often needs to optimize the trade-off between efficiency and precision. Index structures are typically applied to large-scale databases to realize efficient retrievals. However, the performance can be affected by quantization errors. Moreover, the ambiguousness of user-provided examples may also degrade the performance, when compared with traditional image retrieval methods. Sketch-based image retrieval systems that preserve the index structure are challenging. In this paper, we propose an effective sketch-based image retrieval approach with re-ranking and relevance feedback schemes. Our approach makes full use of the semantics in query sketches and the top ranked images of the initial results. We also apply relevance feedback to find more relevant images for the input query sketch. The integration of the two schemes results in mutual benefits and improves the performance of sketch-based image retrieval.

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EXISTING SYSTEM

Content-based image retrieval (CBIR) mainly uses text and images for queries. However, it is often not possible to precisely describe the content of the desired images using plain text. Additionally, obtaining image examples that exactly match a user's search intentions is not a trivial task. Query sketches drawn by users can effectively describe the aim of a search. Sketch-based image retrieval (SBIR) methods use a hand-drawn sketch composed of simple strokes or lines to fulfill the image retrieval task. Traditional draw and search systems require that the input sketch is colored and similar to a real photo . This approach converts sketch-based retrieval to content-based image retrieval. The user must draw the sketch carefully and color it to make the sketch visually similar to the natural scene images. Then, CBIR fuses different features (such as shape, color, and texture) together to perform retrieval.

DISADVANTAGES

- Content-based image retrieval does not solve the core problem of SBIR, i.e., matching a line-formed sketch and colored images.
- The ambiguousness in the query sketch caused by a lack of semantic information such as texture attributes and luminance.
- SBIR, results may vary dramatically if the user's drawing skills are not sophisticated.

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PROPOSED SYSTEM

The several techniques, including relevant image grouping, re-ranking via visual feature verification (RVFV), and contour-based relevance feedback (CBRF). The aim of grouping approach is to find more relevant images to produce relevant feedback. An effective sketch-based image retrieval approach with relevant image grouping, verification and re-ranking. The semantics explored from the sketch and the local features of the verified relevant images are used to reduce the user's search intention gap in SBIR. The mining relevant images in the top-ranked results from the initial SBIR system using relevant image grouping, and using them in the relevance feedback. A visual verification system that re-ranks the results to improve the overall performance. and we integrate a contour-based relevance feedback system into the SBIR system to improve the retrieval performance. This method uses contours as sketches to carry out the relevance feedback in SBIR. We test our relevance feedback based SBIR approach on the ARP and edgel based SBIR systems. The results demonstrate that we have achieved improvements with very little increase in the computational cost.

ADVANTAGES

- Our RVFV approach filters out irrelevant images to improve the relevance feedback, and to find more relevant images for the top-ranked images.
- CBRF find many relevant images when the initial results are sufficient.

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SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Logitech.
- Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

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