An adult image identification system employing image retrieval technique

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Abstract

As the development of the Internet, children are easily exposed on the pornography through web browsers. To block adult images, content-based image retrieval technique is employed for adult image identification. First, the background is removed to obtain the rect- angular region of interesting based on the detection of skin-like pixels. For each input image, the MPEG-7's color, texture, and the pro- posed shape feature is used to retrieve 100 most similar images from the image database which contains both adult and non-adult images. If the retrieved images contains more than Tad adult images, the input one is identified as an adult image. Otherwise, it is identified as a non-adult image. Experiment results have shown the effectiveness of the proposed method.

Keyword：Adult image identification; Scalable color descriptor; Edge histogram descriptor