Abstract

Image retrieval and related operations are always a hotspot in the information era. Content-based image retrieval (CBIR) is a vastly developing area in the multimedia technology domain. To enhance security, we apply watermarking technique into the retrieval system and propose an approach for JPEG image retrieval. The proposed image retrieval system consists of three main phases, offline process, online retrieval process and the feedback process. The offline process aims at the feature vector extraction from the image. Later these features will be stored in the database. When it comes to the online retrieval process, it actually extracts the image features from the input image and matches these feature vectors with those available in the image database. In order to overcome the possible dissimilarity between bottom features and high-level semantics in the image retrieval; we introduce the feedback network to strengthen the retrieval efficiency. This is a simple categorized screening. Such a feedback scenario makes the system more user-friendly and effective. The proposed feedback screening strategy filters the images from irrelevant categories and enriches the final result with more relevant images.
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Index Terms

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Keywords