

A Method for the Reduction of Image Content Redundancy in Large Image Libraries

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Technology Summary

With the availability of low-cost, high-performance computers, memory, and disk storage media, image libraries and content-based image retrieval (CBIR) technologies are becoming more prevalent. CBIR refers to technologies and systems that index large digital image libraries using image content derived from visual characteristics of the image such as those based on color, texture and structure. Although large repositories can be readily assembled, the efficiency of these systems to retrieve the most relevant imagery is still a function of capacity and long-term storage. Due to the rapid growth in the size of image libraries and the high potential for data redundancy, the proposed method has been developed to achieve a reduction in redundancy that facilitates either: (1) the long-term storage of the most information-rich image content (i.e, maintaining the same database capacity but keeping data for a longer period of time), or (2) a reduction in the size of the repository capacity which results in improved performance (i.e., storage and retrieval efficiency) and reduced time for indexing.

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