Optimization Methods used for Automatic Image Annotation/Retrieval: A Survey

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Abstract

Automatic Image annotation is a dominant research area in computer science. It is concerned with the storage of images and assigning meaningful keywords to it. There are several methods developed for efficient automatic image annotation which uses various optimization techniques. The purpose of this paper is to show the survey study done on the optimization techniques for Image annotation. An image has several preeminent characteristics like colour texture, shape etc. These different descriptors of the images can form a combined feature vector. Optimization algorithms such as Particle swam optimization algorithm, Genetic algorithm etc can be used for optimum feature selection.

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**Index Terms**

Computer Science Image Processing
Keywords

Image Annotation, Optimization, Particle Swarm Optimization, Content based image retrieval, Feature Extraction