Abstract

Digital platform-based services increase content on servers and retrieval of relevant information depends on data matching algorithms. Out of different type of data image plays a crucial role for various document proof, study, analysis, diagnosis. Hence retrieval of relevant image as per requirement is very important. This paper has proposed an image retrieval model which takes visual, text query as input and provide relevant images. Work has utilized soft computing genetic algorithm technique for the initial image storage in clusters. Genetic algorithm finds the cluster center images as per visual feature know as co-occurrence matrix and text query. Cluster center images cluster whole image dataset and act as filter to extract relevant image as per user query. Implementation of proposed work was done on Matlab and experiment was performed on real image dataset. Result shows that proposed model has increase the image relevancy as per user requirement.

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Index Terms

Computer Science
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Keywords

Genetic Algorithm, Image retrieval, Soft Computing, Visual Feature Extraction