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| Title | Content-Based Image Retrieval Using AutoEmbedder | | |
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| Abstract |  |
| Content-Based Image Retrieval (CBIR) technique attempts to retrieve relevant query images from the extensive repositories of images. With the advancements of the internet and multimedia technology, images have increased at a significant rate. Retrieving similar pictures from a vast database has always been an arduous task where CBIR techniques are helpful. However, similar images retrieval efficiency improvement is a common problem with the available CBIR techniques due to inadequate feature sets.  This paper proposes a novel CBIR technique using a Deep Convolutional Neural Network (DCNN)-based AutoEmbedder. With this novel approach, this study attempt to map the higher dimensional features into relevant clusterable embeddings with k-means clustering to cluster the relevant images. The architecture is evaluated using the Corel10K and CIFAR-10 datasets, and the average precision and recall value is used to evaluate the architecture’s performance. The proposed model’s significance is that it outperforms the existing CBIR techniques presented in experimental results. | |