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PROTOTYPING ALGORITHM FOR PERFORMANCE ENHANCEMENT FOR CBIR USING NVIDIA CUDA 7.5

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ABSTRACT

The needs for CBIR (Content Based Information Retrieval) have increased exponentially due to rise in electronic gadgets. Text, Image, Audio and video are some of the forms of content across the network used for IR (information retrieval). The leading service provider faces everyday challenge to manage CMLC (Content Management Life Cycle). Extracted features from the data corpus are matched and indexed using TDI (Term Document Index) with the query futures for Information Retrieval. One of the neglected areas in the designed application for the specified cause is its adaptability to work in cloud and grid computing environment. The paper is an attempt that confirms improved efficiency for a given algorithm with efficient resource management using MATLAB R2015a and NVIDIA CUDA 7.5.

KEYWORDS: CBIR, CUDA, CMLC, IR, TDI