Efficient trademark retrieval using weighted image features

By Madeena Sultana

VDM Verlag Aug 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - Large image databases find diverse applications in real-life situations. It is essential to develop an efficient technique to grasp required information from these databases. Fast retrieval and robustness are two main criteria for efficient recognition of an object using image databases. Keeping this in mind, the present research work describes a hybrid method using a weighted combination of multiple image features mainly color histogram, distance, and moment parameters for trademark recognition. The computational power is accelerated by employing a low cost NVIDIA''s Compute Unified Device Architecture (CUDA) enabled GPU. Our experimental results show that this new technique provides more robust performance than either of the individual methods and our GPU implementation requires less than 50% of the CPU computation time. This experimentation demonstrates that the method based on multiple weighted images features with cooperative implementation between the CPU and GPU is an effective way of image retrieval from large databases. 76 pp. Englisch.

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