Abstract

Searching the internet, World Wide Web or databases are only possible with textual index. In other words, images could only be retrieve by having searching parameter(s) that are in textual form. Also, text information is only retrievable by providing a textual search index. No matter how real or identical an image is to the real object, searching cannot be done through it. There will be need for a provision of a matching information in textual form if searching will be successful. This paper presents an image searching framework using facial recognition. The framework uses the hybrid of Genetic algorithm (GA) and Speed Up Robust Features (SURF) algorithm to locate face boundaries, extract facial features and interest points for recognition so as to retrieve a perfect match of image queried from the database. The whole process includes: the query interface, where user will be able to upload image for query and the next is detecting and extracting the facial features, the next step is to search the database for the best face matches.

Index Terms

Computer Science                    Algorithms

Keywords

Genetic Algorithm, SURF, Face detection, Face Extraction, Query, Pre-processing, Recognition, Extraction, Localization, Matching.