

Fuzzy Oriented Graphical User Interface for Content-Based Image Retrieval System

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Abstract: Computing with graphical objects techniques have proved useful in the management of imperfect graphical information. This paper presents GUI constructed for Content-Based Image Retrieval System in order to build a query by image. In our case, this image example is prepared individually by the user from the graphical objects offered by the GUI. The images are described based on a two-staged index and compared, applying compatibility and aggregation operators. We analyze the semantic imprecision and spatial or temporal relationships of graphical objects in the compared images using the fuzzy set theory.

Keywords: CBIR, fuzzy sets, graphical index, GUI, similarity, compatibility.
