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# Measures of similarity between qualitative descriptions of shape, colour and size applied to mosaic assembling

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### Abstract

A computational approach for obtaining a similarity measure between qualitative descriptions of shape, colour and size of objects within digital images is presented. According to the definition of the qualitative features, the similarity values determined are based on conceptual neighbourhood diagrams or interval distances. An approximate matching algorithm between object descriptions is defined and applied to tile mosaic assembling and results of previous approaches are improved.

### Highlights

• Objects within digital images described by its qualitative shape, colour and size. • Similarity measures are defined for comparing qualitative object descriptions. • Similarity values based on conceptual neighbourhood diagrams and interval distances. •

similarity values based on conceptual neighbourhood diagrams and interval distances. An approximate matching algorithm is defined and applied to tile mosaic assembling. Results obtained improve on previous approaches related to tile mosaic assembling.



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## Keywords

Qualitative shape; Qualitative colour; Qualitative size; Conceptual neighbourhood diagram; Interval distance; Similarity measure; Mosaic assembling; TrencadÀs

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