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Reversed Sketch: A Scalable and Comparable Shape Representation

Ming Huang, JiaJun Lin, Ning Chen, Wei An, WeiJian Zhu

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Highlights

- We proposed a polygonal shape representation which can simplify the shape features for better processing and comparison.
- We proposed a polygonal contour detection algorithm which can quickly extract contour from a binary or segment image.
- We proposed a comparable metric which can measure the similarity between polygons and the corresponding comparison algorithm. Made a great improvement on the existing metric, our metric and algorithm can be applied to concave or even spiral polygons.
- Our shape representation can be used to build hierarchical index on large image database for content-based image retrieval.

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