Abstract

This paper studies recognition of fish shapes using both Region based and Contour based shape based descriptors[9]. Moment Invariants are chosen as the Region based descriptor and the Simple (geometric) shape descriptors (SSD) are used as Contour based shape descriptors. The shapes are varied through scaling and rotation. Manhattan Distance is used as the classifier. The study of the recognition rate by using moment invariants and simple shape descriptors is done separately. Each moment invariant (M1, M2, M3, M4 and M5) is studied separately and jointly. Then simple shape descriptors are combined with moment invariants to get hybrid feature vectors for improving recognition rate.

References

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Fish Shape Recognition using Multiple Shape Descriptors

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**Index Terms**

Computer Science

Pattern Recognition

**Keywords**

Moment invariants Eccentricity Simple Shape Descriptors