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(57) Abstract :

A system for performance evaluation of statistical classifiers for shape recognition comprising of: a morphological shape decomposition technique with a training node and a testing node and training node is learns about a plurality of features and classify them and a pre-processing action is to segment the pattern of interest from the background; a feature extraction module finds and subsequently extracts appropriate plurality of features for representing the input patterns and the extracted features are classified by a classifier trained to partition the feature space; and a feature reduction module reduces the dimensions of the multivariate data to two- or three- dimensional projection to permit a visual examination of the data. Fig. 1

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