

## **TWO-DIMENSIONAL IMAGE CLASSIFICATION USING SPECTRAL FEATURE GRAPH AND INDEPENDENT COMPONENT ANALYSIS**

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In this paper, a feature graph is constructed from the CMU/VASC house model 2D image sequence towards classification process. The feature graph is used for symbolic representation of the 2D image in structural form. The generated feature graph is represented as adjacency matrix. By using leading eigenvalue and eigenvector of the adjacency matrix, the spectral feature vector is constructed. The spectral feature vector is used for classification by embedding into pattern space by Independent Component Analysis techniques.

