**An Unsupervised Method for Sketch Recognition Using Jigsaw Framework**

**Introduction**

The aim of this project is to apply the Jigsaw Model into the sketch recognition domain so as to classify strokes unsupervised.

**Method**

What is Jigsaw Model?

The jigsaw model is a patch based generative probabilistic model that learns automatically the size, shape and appearance of the patches from the repeated structures without supervision. The model extracts irregularly sized and shaped patches from a latent image, jigsaw, which can be used to reconstruct the training images. Researchers call the latent image jigsaw as it contains all the necessary information to reconstruct the target image.

The jigsaw model proposes an Expectation Maximization (EM) algorithm to learn the jigsaw image and find the jigsaw pieces that make up each image in the jigsaw image.

**Results**

**Conclusion**

**References**