**Segmentation and Scene Understanding- Lecture from Stanford**

Segmentation using Neural Networks

Giant Neural Networks can’t solve everything.

The old techniques used in image segmentation

Clustering-based Segmentation

K-means Clustering

Non-parametric Clustering

Energy-Based Methods

K-Means Clustering

The concept is to have the centroids, in such a way that to minimize sum of the distance to the centroid for all clusters. It uses Heuristic Algorithm. By having random initialization.

Mean-Shift

NON- PARAMETRIC, iterative clustering method.

The initial guess by sequentially updating it.

Graph-Based Segmentation

Probabilistic Graphical Model

Conditional Random Field

Markov Random Field

Potts-Model

Need to add the code