Problem Statement: Organize a large image/video dataset into groups: (i) based on the type of object for images, (ii) based on events for videos, given a small training dataset. Use and compare different semi-supervised clustering (or equivalent) methods for this purpose.

Input:
- A small training dataset of images/videos (2 or 3 samples per class)

Expected Output:
- Groups of image/videos based on the training set.

Dataset:
- Image: PASCAL VOC 2007, Caltech-101, Imagenet, etc.
- Video: Hollywood, Hollywood2, TRECVID, etc

References