1. Representation model → Bounding quadrilateral with affine deformation

2. Motion model → Brownian

3. Appearance model → PCA: eigenspace
RVQ: centroids
TSVQ: centroids

4. Observation model → PCA: DFFS (distance to feature space)
RVQ: 1NN (distance to nearest neighbor, i.e., centroid)
TSVQ: 1NN (same as RVQ)

5. Inference model → Particle filter