

Co-Clustering to Reveal Salient Facial Features for Expression Recognition

- ▶ **Proposal** Use co-clustering to select features that can be used to classify facial expressions
- ▶ **Method**
 - ▶ Use Gabor filter to extract features from facial images
 - ▶ Use co-clustering to attain a subset of features and samples
 - ▶ Find the probability that a co-cluster is related to a certain class
 - ▶ Features with high probability are selected

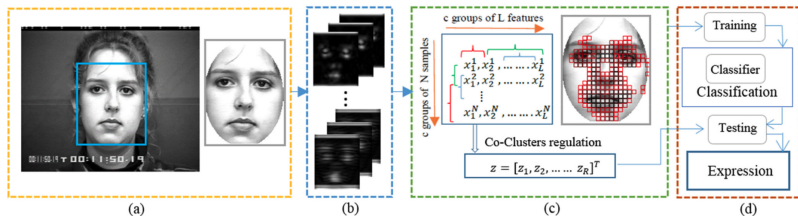


Figure: Khan et al. 2017

My Proposal

► Method

- Use Gabor filter to extract features from facial images
- Use co-clustering to attain a subset of features and samples
- Use a classifier to classify facial expressions
- Use the classifier to find the probability that a co-cluster is related to a certain class
- Features with high probability are selected

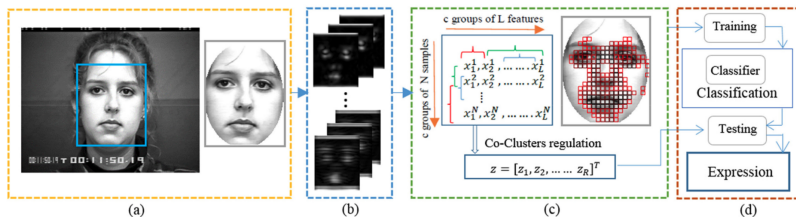


Figure: Khan et al. 2017