REU Report Meeting Week 7

Patrick Hynes

Outline – One Shot

- Recent results Caltech experiments
  - Experiments, changes
- Moving forward
  - YouTube Dataset
  - One Shot action recognition

Some Results
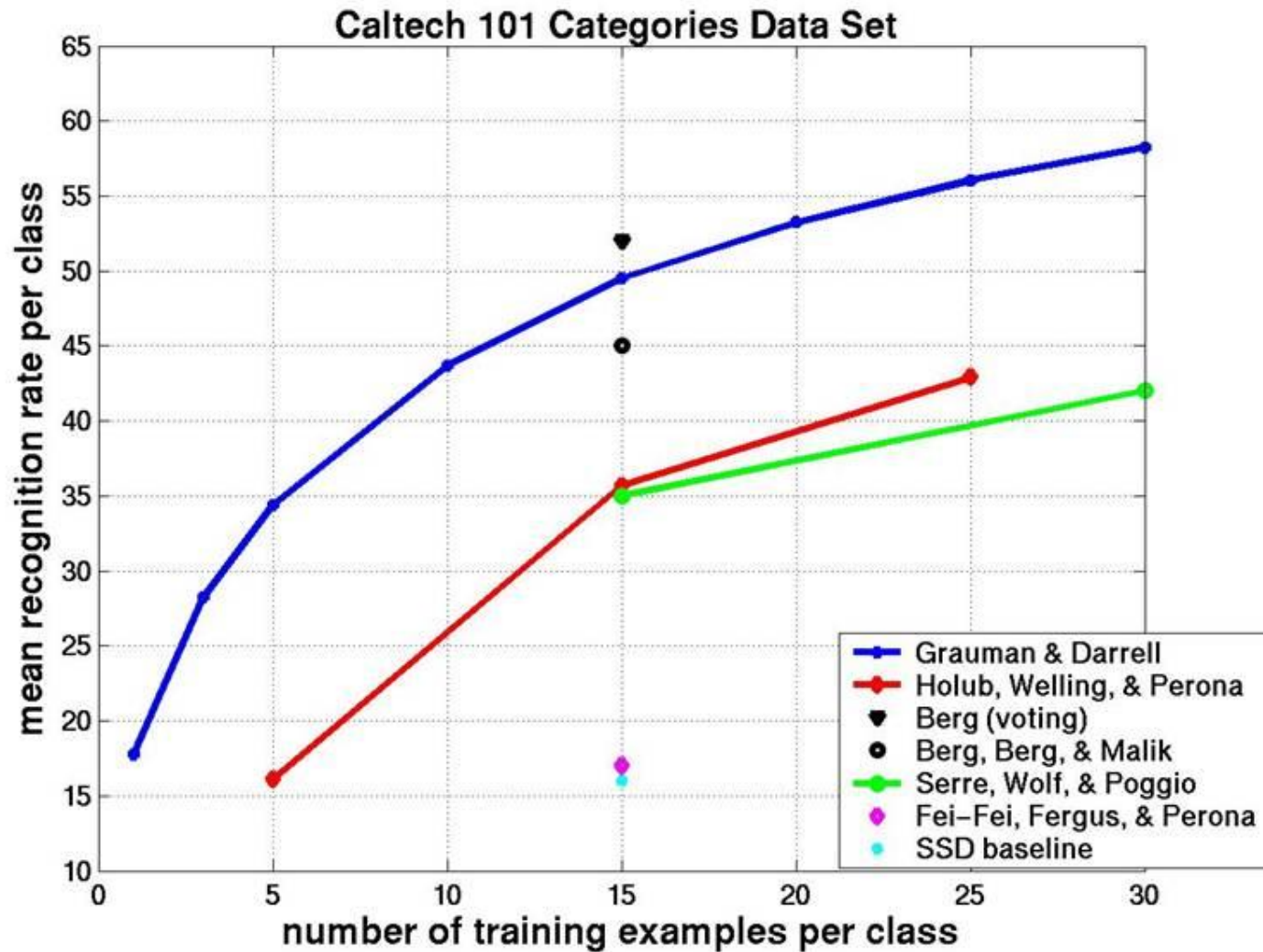
- Trained on Caltech 256
- One Shot on Caltech 101

Num. Train Examples	Our Method	Fei-Fei, et all
1	9.73%	----
3	11.00%	10.4%
6	14.73%	13.9%
15	20.14%	17.7%

Results - Baseline

- Trained on Caltech 101
- Trained on Caltech 101

Num. Training Examples	Our Method
1	37.11%
3	41.71%
6	50.66%
15	57.81%

Road Block

Caltech 101 Categories Data Set

YouTube Dataset

- 11 Categories, 100 Videos each

Method

- Features consisting Bag of Word Histograms for each image
- Designate 5 classes for training
- Perform One Shot training for remaining classes