Egocentric Height Estimation

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Compact 3D CNN

- Used Poleg's CNN and made it regression based
- Made last layer have one output and ReLU activation
- Good results
- Need to make sure we're not overfitting

Network input and output

- Input: Sparse Optical Flow Vectors
  - 60 frames concatenated for x and y directions
  - 32x32x120
  - Typically 10-20 of these inputs per video
- Output
  - A continuous measurement for each 60 frame segment of the video.
  - Take the average of results to get estimate for entire video

Compact 3D CNN

- Normalized data between 0 and 1
- Tried training network with learning rates of 0.01, 0.001, 0.0001

	Actual	Network	Retrained; decreased LR
Chest	121	121.087	164.48
Waist	99	92.96	90.7
Head	166	174.56	166.457
Loss	----	----	.1058