

Final project - Part based model for human detection in videos



- A Discriminatively Trained, Multiscale,
Deformable Part Model

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Project goal

- **Understand and Evaluate** the Felzenszwalb's algorithm on a given known dataset.
- **Test** the learned human detector on an video set of human actions.
- **Modify** Felzenszwalb's algorithm to detect human from using **shape features** to using **motion features**.

Project resources

A Matlab implementation by Prof. Felzenszwalb is available at <http://people.cs.uchicago.edu/~pff/latent/>

Buffy Stickmen: A dataset with annotated human body parts <http://www.robots.ox.ac.uk/~vgg/data/stickmen/index.html>

Still image action dataset collected by Ikizler-Cinbis et al.

HMDB: A Large Video Database for Human Motion Recognition (will provide)