Background Segmentation Algorithm

ChromaKey is the technique of fusing two images together via color segmentation. One of the most popular applications is television.

**DrawBack:** The need for a solid color background for color segmentation.

**Proposal:** Segment with motion, assuming:
1) User is only moving object in video
2) Background is static

**Improvements:**
- Segmentation is not 'clean': Need to perform better segmentation, to remove holes in the moving object
- Incorporate Color: Use of color with background segmentation may improve person segmentation

**Background Subtraction:**
- Multiple Algorithms to allow user to see effect on real time processing
- Adaptive GMM done via MATLAB’s foreground detection

**Optical Flow:**
- Lucas-Kanade Optical Flow algorithm calculated at every point
- Option offered to use MATLAB’s Horn-Schunck algorithm