The detector uses color histogram bins [4] as features. These histograms are extracted by integral histogram data structure [2] and the object classifier is trained by AdaBoost algorithm [3].

The detection is done on every tenth frame. The best samples are tracked forward and backward by mean shift algorithm [1] and the final trajectory is interactively created by combining these tracked samples.

Tracking of a snowboarder on a superpipe. The video contains complex scene with large background changes, the object permanently varies his pose and his clothes have similar colors like background clusters. The tracking was successful with using of five key frames.

User can prefer moving trajectory in front of stagnant one with using of the new interactive extension. The algorithm simplifies user’s work and slightly improves the final trajectory results.

Two key frame tracking of a boy whose position against camera is largely occluded.