Demonstration Videos

The demonstration videos of the tracking results, in three multi-view datasets (Wildtrack, MultiviewX and MVPerception), are enclosed. The demonstration videos were generated by sampling the original videos at a frame rate of 2 frames per second. The original resolution of the three datasets is 1920×1080 pixels, which was reduced to 480 × 270 pixels in the demonstration videos.

In each camera view, the bounding box of each tracked pedestrian was generated by back-projecting their estimated foot point from 3D space to that camera view and drawing a box, of the average pedestrians' size, sitting at that location. Each tracked pedestrian is represented by a distinguished and consistent colour, in all camera views and a virtual top view, throughout the whole video. The tail of each pedestrian in a camera view represents the trajectory in recent 15 frames, whilst the top view map shows the historical trajectory of each pedestrian. The red rectangle on the ground plane represents the area of interest (AOI). Only the pedestrians within the AOI were detected and tracked in each dataset. Some pedestrians, who are partially occluded by the lower border of a camera view, are missed in the tracking, since their feet are out of the AOI. The borders of the top-view trajectory map and FOV map are those of the AOI.