General description of the MPLCS database


The database contains three subsections according to the sections it is used in the paper. The data was recorded using a Primesense camera and Open NI tracker.

1. SectionA-NonDigitTrajectories - Contains 50 2D trajectories of non-digits. The trajectories were executed in the frontal plane and the data includes the \([x,y]\) coordinates of the trajectories. The trajectories scaled to [0 1].

2. SectionA-PreisolatedDigits - Contains two sub-directories:
   a. Eight users (100 samples per gesture) – Eight subjects (4 male and 4 female, aged 24-35, right and left handed) participated in the experiments. Each subject executed 15-20 repetitions of each of 10 gesture digits. The repetitions were performed with pauses of a few days between the experiments. The data contains \([X Y]\) coordinates of the trajectories projected onto a plane.
   b. Two additional users (120 gestures) – Two additional subjects (one male, one female, age 30-46) participated in the experiment. Each recorded 6 samples of each of the 10 digits in one recording session. The data contains the original \([x,y,z]\) coordinates.

3. SectionB-StreamedInput – Contains 7 digit sequences. The data contains two columns with frame numbers (the frame from tracking start and the frame from recording onset) and the \([x,y,z]\) trajectory coordinates.