

### General description of the MDSLCS database

Please cite the following paper when using this database: H. Stern, M. Shmueli, S. Berman, 2013. Most Discriminating Segment - Longest Common Subsequence (MDSLCS) Algorithm for Dynamic Hand Gesture Classification, Pattern Recognition Letters (Special issue on 'Smart Approaches for Human Action Recognition'), 34: 1980-1989.

The data was recorded using a Primesense camera and Open NI tracker. The database contains Palm's Graphiti digits recorded from 12 subjects (4 male and 8 female, aged 23–35, right and left handed). After initiating tracking by a push movement subjects drew digits in the air facing the camera. Each subject executed 5 repetitions of each of 10 gesture digits. The numbers of digits for each gesture are given in Table 1 below.

In the database the file name marks as follows: ps-Digits (general name).subjectID.set executed.number within the set.digit performed.1.2. The last two numbers mark internal technical issues. Inside each file there are five columns. The first is the frame number for which tracking started, the second is a running frame index, the last three are x,y,z spatial coordinates of the tracked hand centroid.

**Table 1 Database digits**

<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
63	61	61	62	64	64	65	64	62	64