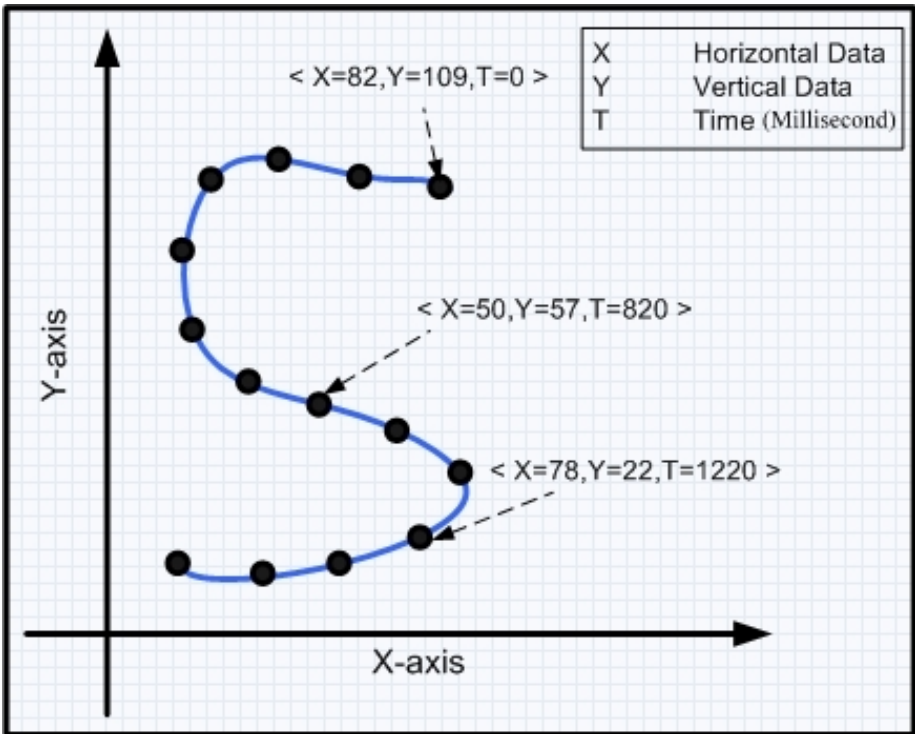
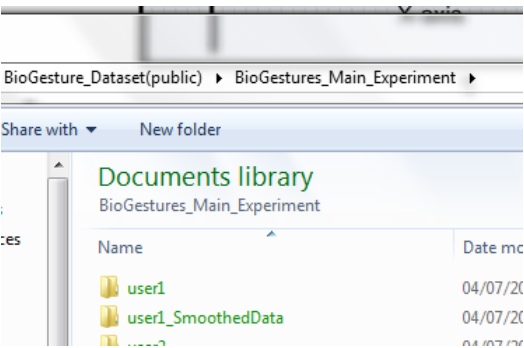


ISOT Mouse Gesture Dynamics Dataset – Readme File

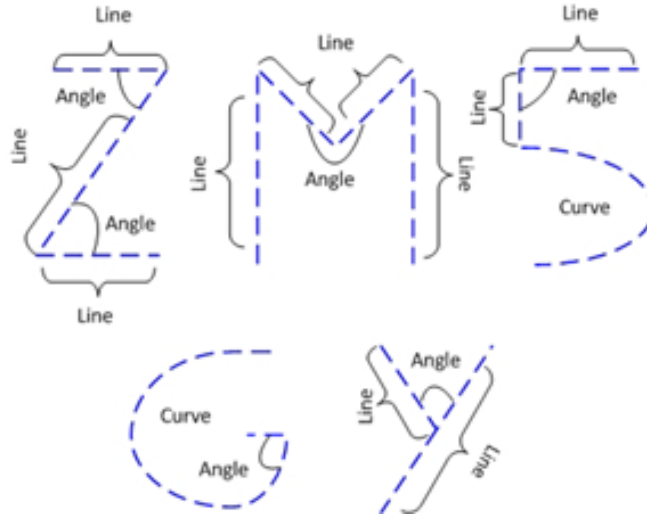
The raw data in this dataset consists of the horizontal coordinate (X-axis), vertical coordinate (Y-axis), and the elapsed time (T) in milliseconds starting from the origin of the drawn gesture. The following Figure gives an example where the number of data points is 14.



Main Experiment

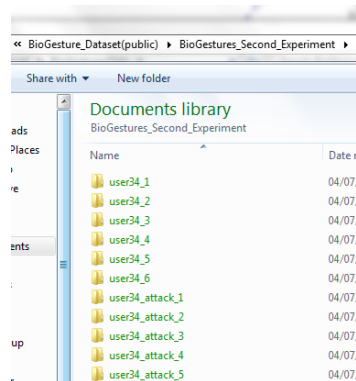


The data in this folder corresponds to the main dataset. The data consists of genuine samples from 41 users, where users were asked to draw five different gestures outlined in the following figure. The data was collected over a period that ranges from 10 days to a month.



There are 2 directories for each user, one contains the raw data unmodified (userX) and the other (userX_SmoothedData) is the smoothed version where the outliers are removed.

Second Experiment



The data in this folder corresponds to the second experiment where some users attempted to forge the gestures of other users by observing how they draw the gestures. Forgery attacks were conducted against 26 different (genuine) users, each attacked by 5 different users. For each genuine user (userX), there are 6 directories numbered userX_1, userX_2 and so on until userX_6; these are the enrolment data for this user (i.e. genuine data). In addition, there are five folders userX_attack_1 up to userX_attack_5 and these are the attack or forgery attempts by 5 different attackers against this user; each folder corresponds to a separate attacker attempting to forge the profile of userX.

To cite this dataset use:

B. Sayed, I. Traore, I Woungang, M.S. Obaidat, "Static Authentication based on Mouse Gestures", IEEE Systems Journal, Vol. 7, No.2, June 2013, pages 262-274

Note: The original dataset covered by the above paper was smaller. The current dataset is an extended version of the initial dataset. Additional users were involved in both types of experiments. A few users participated in both experiments (i.e. use24, user36, user39, and user40).