**American and European Data from 2000-2002**

There are data from three regions in this collection: 1) North America (n=2391), 2) Italy (n=801), and 3) The Netherlands (n=1267). There are both male and female subjects and the ages range from 18 to 65. There are four types of data: 1) 3-D scans in ply format, 2) 3-D landmarks in lnd format which is a text style format, 3) demographics and 4) 1-D measurements. Three poses were scanned: a) a standing pose, b) a comfortable seated pose with the hands resting on the thighs and c) a coverage seated pose with the arms raised and elbows bent. The 1-D measurements are in three sets: 1) manually taken measurements, 2) measurements extracted from the seated b pose scan using the 3-D landmarks and surfaces in the scan, and 3) measurements extracted from the standing a pose scan using the 3-D landmarks and surfaces in the scan. Some data are missing for some subjects.

The data are arranged in the following files and formats:

* North America
  + PLY and LND NA folder
    - Landmarks have .lnd ending (note: no landmarks were extracted from the seated c pose)
    - Scans have .ply.gz ending indicating they are compressed ply format files
    - File names indicate the 4 digit subject number followed by the letter of the scan pose. For example:
      * Csr0010a.lnd is the standing pose a landmark file for subject 0010.
      * Csr0010b.ply is the seated pose b scan file for subject 0010
  + TEXT and XLS NA folder
    - “All NA\_AllPublic Metric” file is an Excel spreadsheet file containing all of the 1-D measurements and the demographics
    - AFRL-0169 Vol 1 and Vol 2 files are reports describing the data collection process
    - “NA\_Landmarks\_a” and “NA\_Landmarks\_b” are excel files containing the collated 3-D landmarks for the standing a and b poses
* Italy
  + PLY and LND NA folder
    - Landmarks have .lnd ending (note: no landmarks were extracted from the seated c pose)
    - Scans have .ply.gz ending indicating they are compressed ply format files
    - File names indicate the 4 digit subject number followed by the letter of the scan pose. For example:
      * Csr4001a.lnd is the standing pose a landmark file for subject 4001.
      * Csr4001b.ply is the seated pose b scan file for subject 4001
  + TEXT and XLS NA folder
    - “ItalyDemographics” is an Excel spreadsheet containing the demographics
    - “ItalyExtractedSeated” is an Excel spreadsheet containing the 1-D measurements extracted from seated pose b
    - “ItalyExtractedStanding” is an Excel spreadsheet containing the 1-D measurements extracted from standing pose a
    - “ItalyMeasurements” is an Excel spreadsheet containing the 1-D measurements that were manually measured
* The Netherlands
  + PLY and LND NA folder
    - Landmarks have .lnd ending (note: no landmarks were extracted from the seated c pose)
    - Scans have .ply.gz ending indicating they are compressed ply format files
    - File names indicate the 4 digit subject number followed by the letter of the scan pose. For example:
      * NL1001a.lnd is the standing pose a landmark file for subject 1001.
      * NL1001b.ply is the seated pose b scan file for subject 1001
  + TEXT and XLS NA folder
    - “DutchDemographics” is an Excel spreadsheet containing the demographics
    - “DutchExtractedSeated” is an Excel spreadsheet containing the 1-D measurements extracted from seated pose b
    - “DutchExtractedStanding” is an Excel spreadsheet containing the 1-D measurements extracted from standing pose a
    - “DutchMeasurements” is an Excel spreadsheet containing the 1-D measurements that were manually measured

A commercially available software tool for unzipping the compressed files, (such as WinZip) will be needed before using the scan (ply) files. Software for viewing 3-D files is needed for viewing and manipulating the 3-D scans. Blender is a free, open-source software package that works well. Software that can use Excel files will be needed for the other data.