The Texas 3D Face Recognition Database

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The Texas 3D Face Recognition Database contains 1149 range and portrait image pairs of adult human subjects. The details of the database are described in Ref. 1. The contents of the database are as follows:

1. **RawImages:** Original range and portrait images with no pre-processing steps applied (751 x 501, 8 bit images).
2. **PreprocessedImages:** Pre-processed versions of the original range and portrait images with Gaussian smoothing, median filtering and hole filling steps (Ref. 1 and 2) applied (751 x 501, 8 bit images).
3. **ManualFiducialPoints:** (x, y) locations of manually located 25 anthropometric facial fiducial points (Ref. 2). The order of the fiducial points is as depicted in Figure 1.

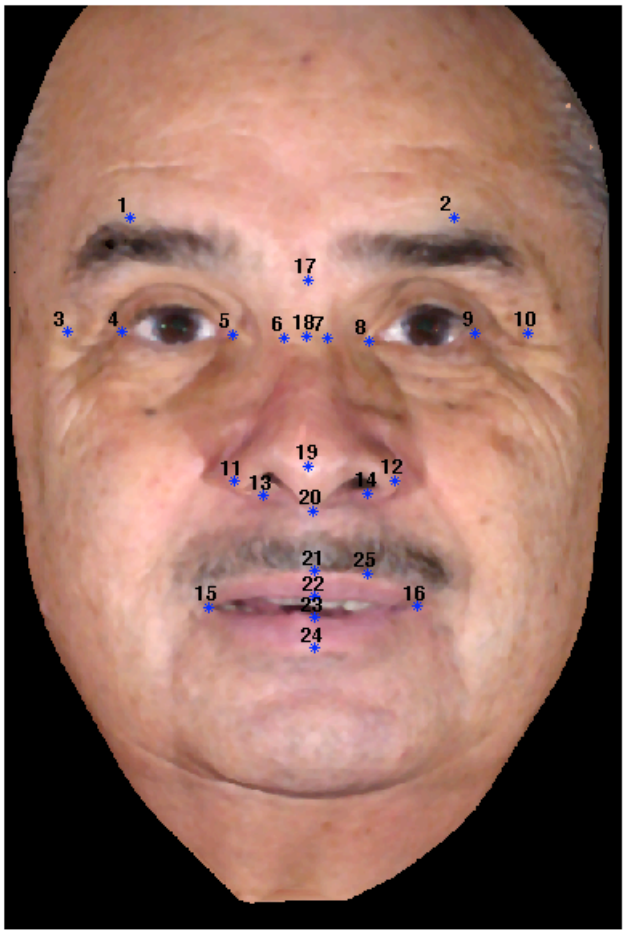

Figure 1: The order of the manually located anthropometric facial fiducial points.

4. **Texas3DFR_Info.xls:** Information about unique subject ID, gender, age, ethnicity, acquisition camera type, facial expression, and the various data partitions (training,

gallery, probe and remaining) employed previously (Ref. 2) for developing and evaluating the Anthropometric 3D Face Recognition algorithm. Additionally, another partition of the training data into gallery and probe sets (columns N, O and P) is also provided.

5. **Gupta2010_SSIA.pdf and Gupta2010_IJCV.pdf**: Preprints of papers that describe the Texas 3D Face Recognition database (Ref. 1) and the Anthropometric 3D Face Recognition algorithm (Ref. 2), respectively.

References:

1. Gupta, S.; Castleman, K. R.; Markey, M. K.; Bovik, A. C., "Texas 3D Face Recognition Database," Image Analysis & Interpretation (SSIAI), 2010 IEEE Southwest Symposium on, pp.97-100, 23-25 May 2010, Austin, TX.

2. Gupta, S.; Markey, M. K.; Bovik, A. C.; "Anthropometric 3D Face Recognition", International Journal of Computer Vision, Online First™, June 05, 2010, http://dx.doi.org/10.1007/s11263-010-0360-8.