

A Database of Registered, Textured Models of the Human Face

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Abstract

This note describes a data set of 24 registered human faces represented by both shape and texture. The data was collected during 2003 as part of the preparation of the master thesis of Karl Sjöstrand[1] (former name Karl Skoglund). The data is ready to be used in shape, appearance and data analysis.

1 Data Description

The data consists of 24 faces. Both shape and texture data is given. The shape data consists of 3D vertices, polygons defined by references to the vertices, and texture coordinates for each vertex. The texture data are simply images in the PNG format. The shape data comes in two resolutions, one with 14 466 vertices per face, and one with 5787 vertices. The texture data comes both in high (371×279) and low (133×100) resolution, and as color and grayscale images. The shape data is in the VTK format, and can be loaded and processed using the freely available VTK software package for visualization. See www.vtk.org for more information on VTK. The files are in the ASCII (text) format and are easy to read and understand. It should be straight-forward to adapt these files to any programming environment. The data acquisition is described in [1].

2 Terms of Use

The data is free to use for research and educational purposes. The data may not be used commercially. **Published material using this database must not contain images of individuals, such that these can be identified.** Any publications should refer to this note.

3 Acknowledgments

The 3D-Laboratory at the School of Dentistry, Copenhagen, is acknowledged for the use of their Minolta Vivid 900 laser scanner, and for always being helpful.

References

- [1] K. Skoglund, *Three-dimensional face modelling and analysis*, Informatics and Mathematical Modelling, Technical University of Denmark, 2003.

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