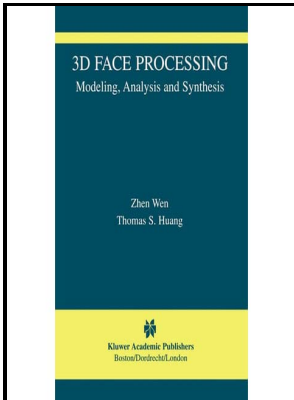# 3D face processing - modeling, analysis, and synthesis

Kluwer Academic Publishers - 3D face recognition: a survey

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Kluwer international series in video computing3D face processing - modeling, analysis, and synthesis
Notes: Includes bibliographical references (p. [125]-136) and index.
This edition was published in 2004

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3D face recognition: a survey

Note that the three model formats are not one to one corresponding to the three

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popular 3D scanners. The method ensures that given motion capture marker positions are exactly matched; therefore, we obtain already in the first step an accurate overall pose approximation, which has to be enriched only by the specific fine-scale details distinctive for the given pose.

Learning 3D Face Morphable Model Out of 2D Images

One pitfall of this method is, the recognition accuracy would decrease significantly when the head pose changes. Compared with the triangulation based systems, the structured light based systems are more popular in consumer level 3D face acquisition. This means, there has to be a point-to-point correspondence between the reconstruction and all other models, enabling morphing, and second, it has to model the underlying transformations between types of faces male to female, neutral to smile, etc.

CiteSeerX — Capturing data and realistic 3D models for cued speech analysis and audiovisual synthesis. Auditory

When the light is dim or the face poses are not properly aligned in the camera view, the recognition accuracy will suffer.

face3d/3D Face Papers.md at master · YadiraF/face3d · GitHub

The principal curvature-based 3D keypoint detection algorithm, which can repeatedly recognize the complementary position in the local curvature on a facial scan. Images formed by a human face change with viewpoint. For a set of example blend shapes, see Figure 10.

3D face recognition: a survey

While humans are used to the application of lip-reading, we here consider the problem vice-versa: Given an audio signal, what is the most plausible visual counterpart? When a match score is sufficiently high, we would claim that the target face is recognized. Example-based image analysis and synthesis. In Proceedings of the 5th International Conference on Computer Vision.

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Then the data are processed by feature extraction algorithms to find the features that could be used to differentiate faces. The unavailability of this 3D face data is caused by occlusion of external objects. These models first need to be trained on a collection of original visual speech signals and their corresponding phonemic description for text-driven synthesis or their corresponding auditory speech information for speech-driven systems.

3D face processing : modeling, analysis, and synthesis : Wen, Zhen, 1975

Therefore their choice falls on UV-space representation.

Facial Animation

Facial Animation BIFS exposes the animated face properties to the scene level. In the second step, the recorded video is analyzed, and video segments consisting of phone, triphone, or word boundaries are identified.

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