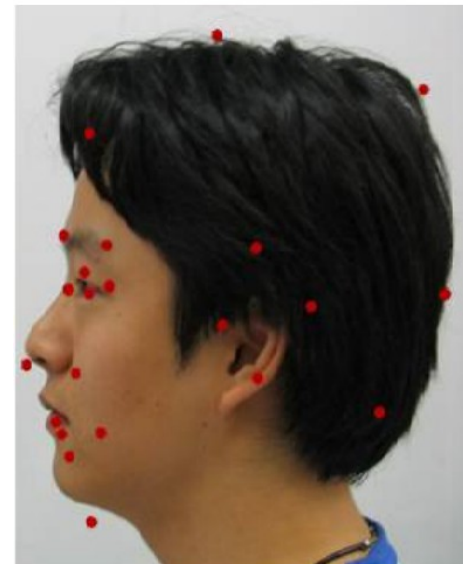
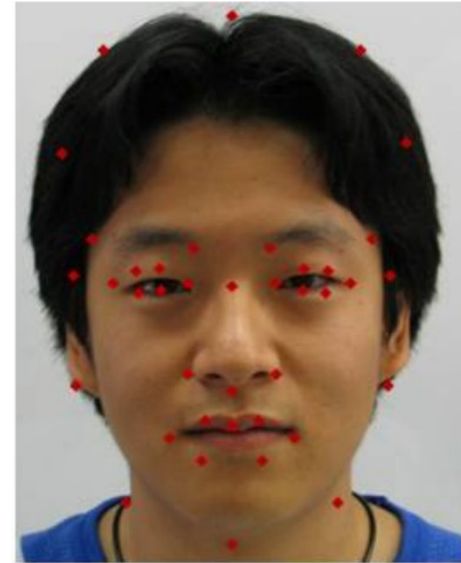
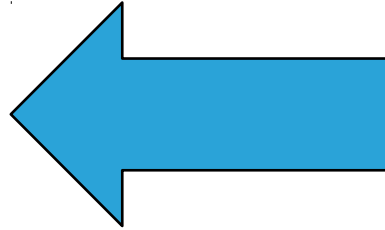


Face3D

Thomas Pinetz¹ and Harald Scheidl²

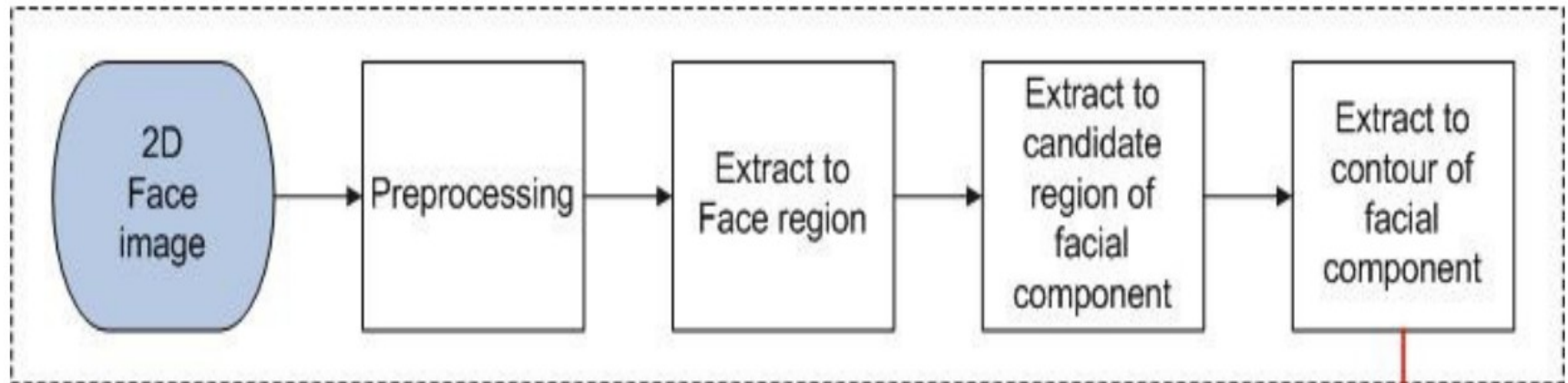




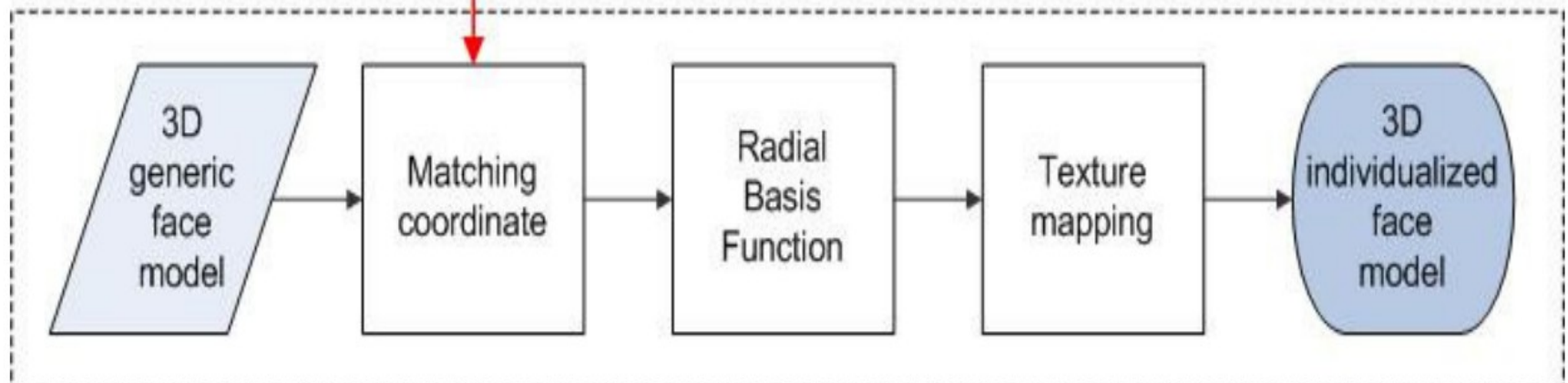
- Used for plastic surgery or virtual Conference
- 3D Scanner
 - Expensive Equipment
 - No animation data.
- Reconstruction from Stereo Images or videos
 - Non trivial.
 - No completely automatic way exists yet.



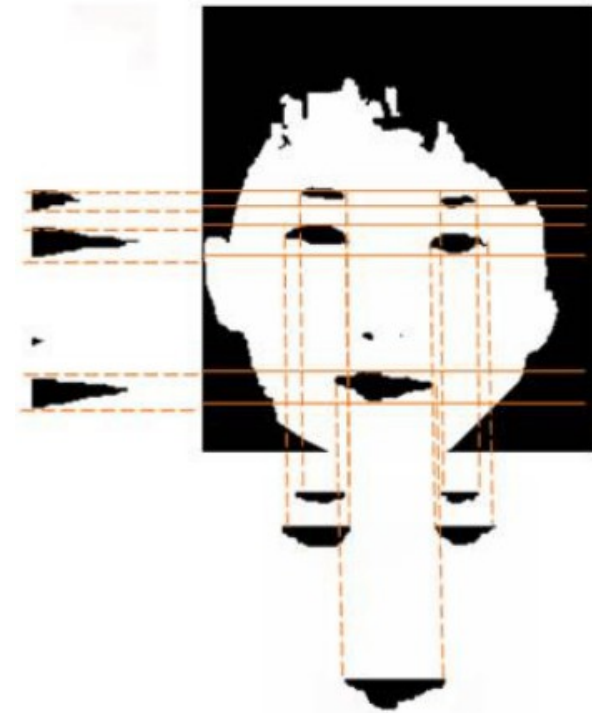
Facial components extraction



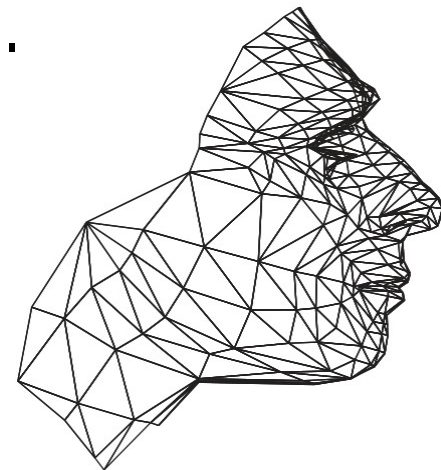
3D face modeling



- Detection of skin according to colour
- Detection of countours and feature point detection
- Minimization of Error



- Creation of generic Face Model
- Creation of Labels for Control Vertices
- Move Control Vertices to correct Position
- Texture Mapping of the Face Model.



- Language: C++
- OpenCV for image processing
- OpenGL for rendering of the 3D face model
- MFC in case we need UI functionality
- Blender for generic 3D Model



**Thank you for your
Attention**

