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APPLICATION OF CONE BEAM COMPUTED TOMOGRAPHY
IN FACIAL IMAGING SCIENCE

Zacharias Fourie
Groningen, 26 september 2011

1. Producing 3D surface models from Cone beam computerized tomography (CBCT) datasets is still less accurate than the reality when using threshold based methods. Differences in the segmentation process resulted in significant clinical differences between the measurements.*(This thesis)*

2. The commercially segmented surface models were more accurate than the experienced clinician's segmented surface models. However, equal quality may also be reached by a clinician if sufficient training and time is taken to segment a CBCT surface model. *(This thesis)*

3. Because CBCT images are often used for pre-surgical planning, the accuracy is of utmost importance. *(This thesis)*

4. There are clear potential benefits of using 3D measurements appose to direct measurements in the assessment of facial deformities. Measurements recorded by 3D systems appeared to be both sufficiently accurate and reliable enough for research and clinical use. *(This thesis)*

5. The soft tissue measurements on surface models derived from CBCT are reliable and accurate. Existing CBCT images can be used to derive accurate measurements for establishing soft tissue thickness databases of different populations. *(This thesis)*

6. All children are artists. The problem is how to remain an artist once he grows up. *(Pablo Picasso)*

7. A person who won't read has no advantage over one who can't read. *(Mark Twain)*

8. A man is but the product of his thoughts. What he thinks, he becomes. *(Mohandas Gandhi)*

9. A successful man is one who makes more money than his wife can spend. A successful woman is one who can find such a man. *(Lana Turner)*

10. Education without values, as useful as it is, seems rather to make man a more clever devil. *(C.S. Lewis)*

11. Work as if you were to live a hundred years. Pray as if you were to die tomorrow. *(Benjamin Franklin)*

12. The more I practice, the luckier I get. *(Gary Player)*