

A 'photo' that won't fit in the family album Engineers create 3D model of baby's face for partially-sighted mother

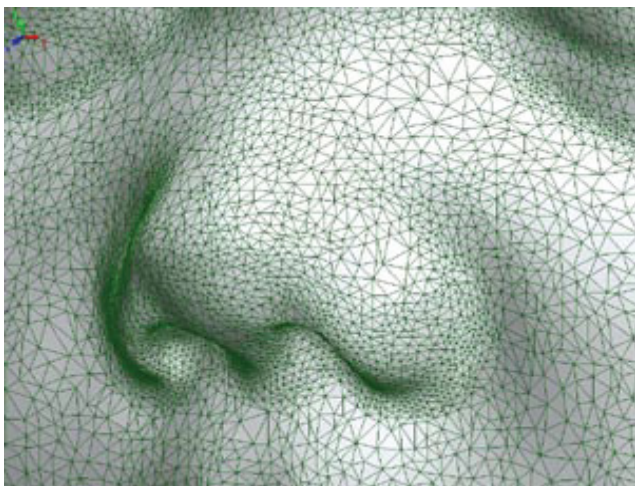
Every parent likes to take photos of their children as they grow up, charting their progress through the years and recording their achievements. Baby photos are particularly important as the child is growing and changing so quickly.

3D Scanners (UK) Limited helped to solve the problem for partially-sighted Yuen Har Tse.

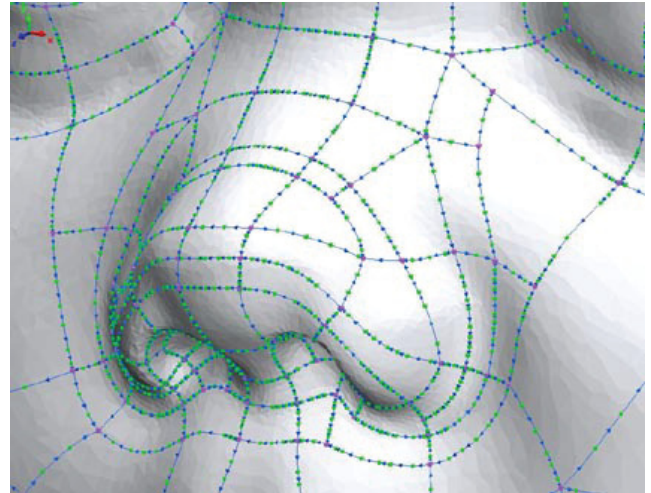
A complete three dimensional solid model of her three month old son's face was created to act as a photograph for her to remember him as he was.

Yuen Har's son 'Johnathan' was scanned with a 3D laser scanner so quickly (and safely) that it could be used on the tiny baby without even waking him!

The scanned data could then be imported into InnovMetrics Polyworks software, IMAlign, where the point cloud data was organised and aligned. The data was then taken into Immerge and a polygonal mesh was produced.

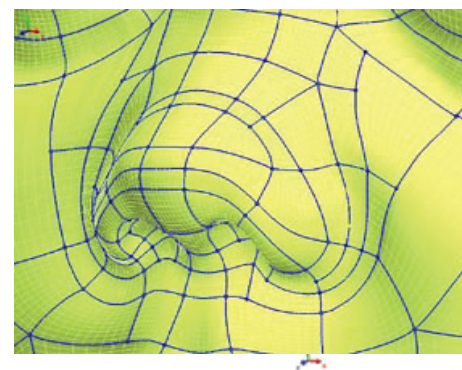


The next stage was to clean and edit the model in Imedit until a model suitable for surfacing was produced. A curve network was plotted on the polygon model, defining the natural curvature for the patch network to follow.



Once the curve network was in place a patch network was automatically created showing a grid to emphasise any problems that the surface might have with the positioning of the curves.

When happy with the patch network, a nurbs surface was produced which was exported as an iges model.



An iges model was created to allow a rapid prototype model to be produced.

