Thesis Title   Multiresolution Surfaces Editing By Wavelet Transforms

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ABSTRACT

This thesis presents a useful method of multiresolution surface editing. The concept is to combine the wavelet transforms and B-spline curve for generating multiresolution surfaces from such image. An advantage of these multiresolution surfaces is once editing a few control points of lower detail, it can affect the high detail (the detail follows the changes performed at the coarse level). Consequently it is unnecessary to find an equation of the surface needed to change. The performance of the method is evaluated by operating with some synthesized images such as facial image. In conclusion, this technique is facile and practical.