

Title: Structured Modeling For Aesthetic Design

Authors: Chiara Eva Catalano, Maria Meirana, Laura Papaleo

Submitted to: SPRING CONFERENCE ON COMPUTER GRAPHICS 2000-
BRATISLAVA (3-6 Maggio 200)

Abstract

Nowadays, it is very common that the same company produces the mechanical and electrical parts of a product also for competitor trademarks. The differences in products are mainly given by shape details and then the choice of the customer results strongly affected by aesthetic aspects (color, shape, and so on). These ones are not so conditioned by technology as in the past because of the availability of new materials and tools, able to render very complex shapes and to provide a greater freedom to the stylist creativity. In this paper, the introduction and the study of high-level modeling entities is attained. From the one hand, these elements would improve the CAS design, bringing the computer way of operating nearer to the stylist way of thinking. The analysis focalizes on possible shape modification techniques, which take into account the emotional impact. From the other hand, the adoption of the feature-based concept is introduced for allowing the reuse of already existing models for obtaining new, but aesthetically similar, products.