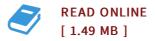# Transfer and Invariants of Surfaces of Revolution

By Sven Utcke

Diplom.De Feb 2001, 2001. Taschenbuch. Book Condition: Neu. 210x148x7 mm. This item is printed on demand - Print on Demand Titel. Neuware - Diploma Thesis from the year 1993 in the subject Electrotechnology, grade: 1,0, Hamburg University of Technology (Unbekannt, Arbeitsbereich Technische Informatik I), language: English, abstract: Inhaltsangabe:Abstract: A number of papers in the Computer Vision and Pattern Recognitionliterature have demonstrated that invariants, or equivalently structure modulo a 3D linear transformation, are sufficient for object recognition. The final stage in the recognition process is verification, where an outline is transferred from an acquisition image of the object to the target image. For the most part recognition based on invariants has concentrated on planar objects, though some 3D invariants have been measured from single and multiple images for polyhedra, point sets, surfaces of revolution and algebraic surfaces. The work so far on surfaces of revolution has only exploited isolated points on the outline (such as bitangents), and has not addressed transfer or verification. This thesis, for the first time, extends the transfer and extraction of invariants to surfaces of revolution using the entire outline. Given a single view of the surface, it is possible to obtain the projection in any other...

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