Informatik-Kolloquium

Rheinisch-Westfälische Technische Hochschule Aachen
Fachgruppe Informatik

EINLADUNG

Zeit:	Dienstag, 7. März 2006, 10.00 Uhr
Ort:	Raum 6317, E2, 3. Etage, Ahornstr. 55
Referent:	Prof. Dr. Shi-Min Hu Tsinghua University, Beijing
Thema:	Feature sensitive geometry processing

Abstract Sharp edges, ridges, valleys and prongs are critical for the appearance and an accurate representation of a 3D model. In this talk, we propose a novel approach that deals with the global shape of features in a robust way. Based on a remeshing algorithm which delivers an isotropic mesh in a feature sensitive metric, features are recognized on multiple scales via integral invariants of local neighborhoods. Morphological and smoothing operations are then used for feature region extraction and classification into basic types such as ridges, valleys and prongs. The resulting representation of feature regions is further used for feature-specific editing operations.

Es laden ein: Die Dozenten der Informatik