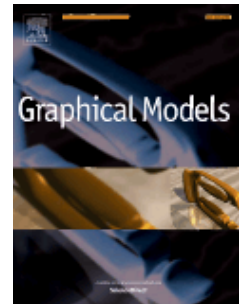




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ISSN: 1524-0703

DESCRIPTION

Graphical Models is recognized internationally as a highly rated, top tier journal and is focused on the creation, geometric processing, animation, and visualization of **graphical models** and on their applications in engineering, science, culture, and entertainment. *GMOD* provides its readers with thoroughly reviewed and carefully selected papers that disseminate exciting innovations, that teach rigorous theoretical foundations, that propose robust and efficient solutions, or that describe ambitious systems or applications in a variety of topics.

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The following are examples of topics typically covered in *GMOD*:

Shape Processing: Analysis of local properties. Averaging and relative convex hulls. Correspondence, registration, matching and retrieval. Detection of ridges, features, patterns, and symmetries. Measures of volume, compactness, or convexity. Morphological operations (offsetting, rounding, tightening). Segmentation. Similarity measures, comparison, variability statistics.

Points: Analysis. Interpolation. Multi-resolution. Rendering. Segmentation. Separation.

Curves: Parametric. Implicit. Fitting. Smoothing, Subdivision. Constant length. Extraction. Segmentation. Matching. Comparison. Averaging. Curves on surfaces. Rounding, Offsetting, Regularity.

Skeletons: Animation and Skinning. Medial axis or curve skeleton (construction, approximation, properties)

Meshes: Compact data structures. Feature extraction and replication. Feature exaggeration. Levels of Detail. Simplification. Shape measures. Parameterization. Re-sampling. Smoothing. Subdivision. Volume/area preservation. Feature sharpening.

Surfaces: Implicit. Parametric. Curvature. Hole filling. Geodesics. Intersection. Interpolating. Reconstruction. Sampling.

Solids: Boolean operations. Boundary representations. CSG. BSP. Non-manifold models. Inhomogeneous models. Non-manifold models and complexes. Offsets. Reconstruction from drawings, images, videos. Repair. Rounding and smoothing. Sweeps.

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INTRODUCTION

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[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1, 2015. <http://dx.doi.org/10.17632/xwj98nb39r.1>.

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