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A mapping-independent primitive for the triangulation of parametric surfaces

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Source: GRAPHICAL MODELS **Volume:** 65 **Issue:** 5 **Pages:** 260-273 **Published:** 2003

Times Cited: 0 **References:** 28

Abstract: This paper describes a new technique for the triangulation of parametric surfaces. Most earlier methods sample the parameter domain, and the wrong choice of parameterization can spoil the triangulation or even cause the algorithm to fail. Conversely, we use a local tessellation primitive to sample and triangulate the surface. The sampling is almost uniform and the parameterization becomes irrelevant. If sampling density or triangle shape has to be adaptive, the resulting uniform mesh can be used either as an initial coarse mesh for a refinement process, or as a fine mesh to be reduced. (C) 2003 Elsevier Science (USA). All rights reserved.

Document Type: Article

Language: English

Author Keywords: parametric surfaces; triangulation; mesh generation; finite element method

KeyWords Plus: MESH GENERATION

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Publisher: ACADEMIC PRESS INC ELSEVIER SCIENCE, 525 B ST, STE 1900, SAN DIEGO, CA 92101-4495 USA

Subject Category: Computer Science, Software Engineering

IDS Number: 722NB

ISSN: 1524-0703

DOI: 10.1016/S1524-0703(03)00048-1

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