

## Accepted Manuscript

Random cutting plane approach for identifying volumetric features in a CAD mesh model

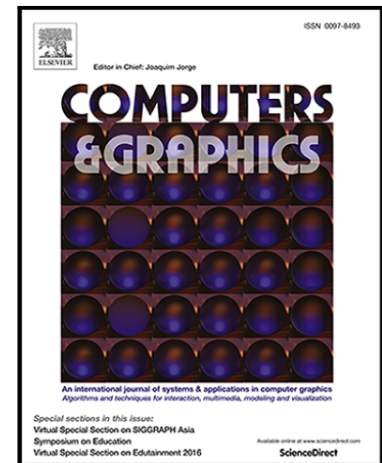
Lakshmi Priya Muraleedharan, Shyam Sundar Kannan, Ameya Karve, Ramanathan Muthuganapathy

PII: S0097-8493(17)30118-8  
DOI: [10.1016/j.cag.2017.07.025](https://doi.org/10.1016/j.cag.2017.07.025)  
Reference: CAG 2833

To appear in: *Computers & Graphics*

Received date: 15 June 2017  
Revised date: 14 July 2017  
Accepted date: 15 July 2017

Please cite this article as: Lakshmi Priya Muraleedharan, Shyam Sundar Kannan, Ameya Karve, Ramanathan Muthuganapathy, Random cutting plane approach for identifying volumetric features in a CAD mesh model, *Computers & Graphics* (2017), doi: [10.1016/j.cag.2017.07.025](https://doi.org/10.1016/j.cag.2017.07.025)



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**1 Highlights**

- 2 • Feature detection using randomized plane cutting in a  
3 CAD mesh model.
- 4 • The algorithm uses graph traversals and without using  
5 threshold values.
- 6 • Geometry of most of the extracted features is identified  
7 using Gauss map.
- 8 • Interacting features have also been extracted and sepa-  
9 rated.
- 10 • Our approach can also correctly process many types of in-  
11 teracting features.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/6876848>

Download Persian Version:

<https://daneshyari.com/article/6876848>

[Daneshyari.com](https://daneshyari.com)