Computational methods for understanding 3D shapes

Full Text Print E-mail Add to Marked List Save to EndNote Web more options

Author(s): Attene M (Attene, M.), Masotti S (Masotti, S.), Mortara M (Mortara, M.), Patane G (Patane, G.), Spagnuolo M (Spagnuolo, M.), Falcidieno B (Falcidieno, B.)

Source: COMPUTERS & GRAPHICS-UK **Volume:** 30 **Issue:** 3 **Pages:** 323-333 **Published:** 2006

Times Cited: 0 **References:** 34

Abstract: Understanding shapes has been a challenging issue for many years. firstly motivated by computer vision and more recently by many complex applications in diverse fields, such as medical imaging, animation, or product modeling. Moreover, the results achieved so far prompted a significant amount of work in very innovative research fields Such as Semantic-based knowledge systems dealing with multidimensional media.

This paper describes the historical evolvement of the research done at IMATI-GE/CNR in the field of shape understanding. The most significant methods developed are classified and described along with some results. and discussed with respect to applications. Open issues are outlined along with future research plans. (c) 2006 Elsevier Ltd. All rights reserved.

Document Type: Article

Language: English

Author Keywords: shape reasoning; computational topology; segmentation; shape analysis; shape matching

Addresses: Attene, M (reprint author), CNR, IMATI, Sez Genova, GE, Via Martini 6, I-16149 Genoa, Italy
CNR, IMATI, Sez Genova, GE, I-16149 Genoa, Italy

E-mail Addresses: marco.attene@ge.imati.cnr.it

Publisher: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, ENGLAND

Subject Category: Computer Science, Software Engineering

IDS Number: 060JK

ISSN: 0097-8493

DOI: 10.1016/j.cag.2006.02.007

Cited by: 0

This article has been cited 0 times (from Web of Science).

Create Citation Alert

Related Records:

Find similar records based on shared references (from Web of Science).

[view related records]

References: 34

View the bibliography of this record (from Web of Science).

Additional information

- View the journal's impact factor (in Journal Citation Reports)

Suggest a correction

If you would like to improve the quality of this product by suggesting corrections, please fill out this form.

Step 1:

- Authors, Title, Source
- plus Abstract
- Full Record
- plus Cited Reference

Step 2: [How do I export to bibliographic management software?]

Print | E-mail | Add to Marked List | Save to EndNote Web | Save to EndNote, RefMan, or other reference software

Save To... Save

Please give us your feedback on using ISI Web of Knowledge.

Acceptable Use Policy
Copyright © 2008 The Thomson Corporation

THOMSON