

Volume 30

Issue 1

February 2006

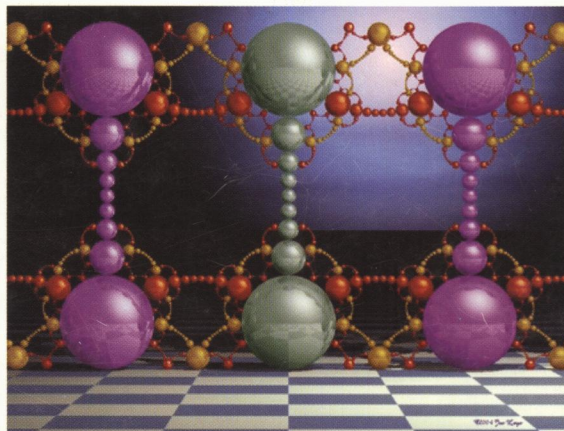
ISSN 0097-8493

COMPUTERS & GRAPHICS

An international journal of systems
& applications in computer graphics

Algorithms and techniques for interaction,
multimedia, modelling and visualization

EDITOR-IN-CHIEF: J. L. Encarnaçã



In this issue the special topics are

EDUTAINMENT

Guest Editor: Zhigeng Pan

DISCRETE GEOMETRY FOR COMPUTER IMAGERY

Guest Editors: Eric Andres, Guillaume Damiand, Pascal Lienhardt

AVAILABLE AT
www.ComputerScienceWeb.com

POWERED BY SCIENCE @ DIRECT®

In this issue the special topics are

EDUTAINMENT

Guest Editor: Zhigeng Pan

DISCRETE GEOMETRY FOR COMPUTER IMAGERY

Guest Editors: Eric Andres, Guillaume Damiand, Pascal Lienhardt

Special Issue: Edutainment

- | | | |
|---|----|---|
| Zhigeng Pan | 1 | Editorial |
| Yiyu Cai, Baifang Lu,
Zhaowei Fan,
Chandrasekaran Indhumathi,
Kian Teck Lim, Ching Wern Chan,
Yuan Jiang and Lin Li | 3 | Bio-edutainment: Learning life science through X gaming |
| Jim X. Chen | 10 | Learning abstract concepts through interactive playing |
| Zhigeng Pan, Adrian David Cheok, 20
Hongwei Yang, Jiejie Zhu and
Jiaoying Shi | | Virtual reality and mixed reality for virtual learning environments |

Special Issue: Discrete Geometry for Computer Imagery

- | | | |
|--|----|---|
| Eric Andres, Guillaume Damiand
and Pascal Lienhardt | 29 | Editorial |
| I. Debled-Rennesson, F. Feschet
and J. Rouyer-Degli | 30 | Optimal blurred segments decomposition of noisy shapes in linear time |
| Pierre Y. Chatelier and
Rémy Malgouyres | 37 | A low-complexity discrete radiosity method |
| David Coeurjolly and
Loutfi Zerarga | 46 | Supercover model, digital straight line recognition and curve reconstruction on the irregular isothetic grids |

(continued)

Indexed in GMT Abstr, Cam Sci Abstr, Comput Cont, Curr Cont,[®] Research Alert[®],
Curr Cont/CompuMath, Curr Cont/Eng Tech & Applied Sci, Curr Cont SCISEARCH[®] Data, Eng
Ind, Ergon Abstr, Info Sci, Abstr, INSPEC Data, PIRA, SSSA/CISA/ECA/ISMEC

ISSN 0097-8493

TYPESET BY MACMILLAN INDIA LTD., BANGALORE-25
PRINTED IN GREAT BRITAIN BY POLESTAR WHEATONS LTD, EXETER

371



ELSEVIER



0097-8493(200602)30:1;1-0