

Volume 30

Issue 4

August 2006

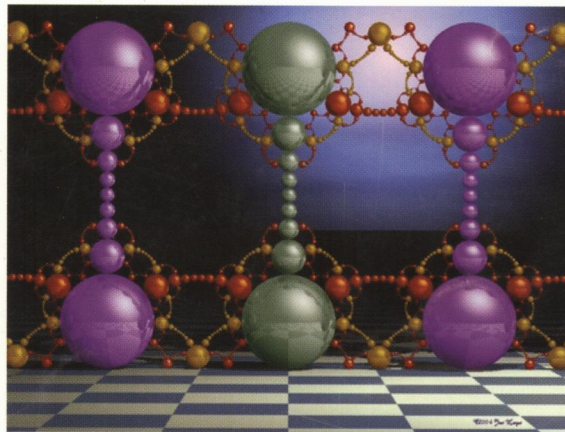
ISSN 0097-8493

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 topic is
NATURAL PHENOMENA

Guest Editors: Marcio Lobo Netto, Gladimir V.G. Baranoski

AVAILABLE AT
www.ComputerScienceWeb.com

POWERED BY SCIENCE @ DIRECT®

In this issue the special topic is

NATURAL PHENOMENA

Guest Editors: Marcio Lobo Netto, Gladimir V.G. Baranoski

Special Issue: Natural Phenomena

- | | | |
|--|-----|---|
| Gladimir V.G. Baranoski and Marcio Lobo Netto | 483 | Editorial |
| Petri Varsa and Jon Rokne | 485 | Simulation of the ball lightning phenomenon |
| Gilles Valette, Stéphanie Prévost, Laurent Lucas and Joël Léonard | 494 | SoDA project: A simulation of soil surface degradation by rainfall |
| Pierre Rousseau, Vincent Jolivet and Djamchid Ghazanfarpour | 507 | Realistic real-time rain rendering |
| Ye Zhao, Lujin Wang, Feng Qiu, Arie Kaufman and Klaus Mueller | 519 | Melting and flowing in multiphase environment |
| Y. Akagi and K. Kitajima | 529 | Computer animation of swaying trees based on physical simulation |
| <i>Technical Section</i> | | |
| Qingbiao Wu, Xinxian Huang and Yujuan Han | 540 | A clipping algorithm for parabola segments against circular windows |
| R.J. Cant and C.S. Langensiepen | 561 | Efficient anti-aliased bump mapping |
| Z. Li, D.S. Meek and D.J. Walton | 581 | A smooth, obstacle-avoiding curve |

(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(200608)30:4;1-G