Index

Keynote Speech	
Educational Trojan Horses Michael J. Bailey	1
1 - Computer Graphics Curricula in Computer Science	
Presentations	
Bringing the Introductory Computer Graphics Course into the 21st Century Rosalee Wolfe	3
1.1 - Curricula	
Position Papers	
An Introductory Course on Visualization <i>B. Sousa Santos</i>	9
Restructuring Computer Graphics and Visualisation Curricula at IST J. M. Brisson Lopes, M. R. Gomes, J. C. Bernardo, J. Jorge and J. M. Pereira	17
Adapting Computer Graphics Curricula to Changes in Graphics Technology L. E. Hitchner and H. A. Sowizral	23
Computer Graphics in the Scope of Informatics Engineering education <i>M. Próspero dos Santos</i>	31
A Course in Topology-based Geometric Modeling P. Lienhardt, L. Fuchs and Y. Bertrand	39
Re-Inventing the Introductory Computer Graphics Course: Providing Tools for a Wider Audience S. Cunningham	45
1.2 - Techniques and Tools	
Position Papers	
A Mathematica Package for CAGD and Computer Graphics A. Iglesias, F. Gutiérrez and A. Gálvez	51
The Development of a Digital Library to Support the Teaching of Computer Graphics and Visualization G. Scott Owen, Raj Sunderraman and Yanqing Zhang	59

Learning 3D Visualisation with MALUDA J. A. Madeiras Pereira and M. R. Gomes	65
Teaching the Graphics Processing Pipeline: Cosmetic and Geometric Attribute Implications J. Bresenham	71
Strengthening Visual Skills by Recognising Rendering Algorithms <i>R. Wolfe</i>	79
MAVERIK: A Virtual Reality System for Research and Teaching T. Howard, R. Hubbold and A. Murta	85
2 - Computer Graphics Curricula in the Arts	
Presentations	
Computer Graphics Curricula in the Visual Arts D. E. Eber	93
An Interdisciplinary Approach to Teaching Computer Animation to Artists and Computer Scientists D. S. Ebert and D. Bailey	99
Position Papers	
Combining Art and Mathematics in Computer Graphics Education <i>M. Ollila</i>	105
Computers in Art and Design Education - Past, Present and Future <i>T. Longson</i>	111
3 - Online Education	
Presentations	
Online Education Anne Mumford	115
3.1 - Architecture	
Position Papers	
On the Functionality of Distributed Multimedia-System Architecture for Educational Applications D. Dochev, R. Pavlov and R. Yoshinov	117

3.2 - Collaboration

Position Papers	
Three Collaborative Models for Computer Graphics Education <i>C. Case</i>	123
Enabling Educational Collaboration - A New Shared Reality J. R. Brown	131
3.3 - Teaching	
Position Papers	
Supporting Face to Face Teaching A. Mumford	135
Web Based Multi-User Interactive Graphics Worlds for Education G. Scott Owen	137
4 - Computer Graphics as a Tool for Teaching & Learning	
Presentations	
Using Web-Based Computer Graphics to Teach Surgery K. Brodlie, N. El-Khalili and Ying Li	141
Position Papers	
Visualisation in teaching-learning mathematics: the role of the computer <i>G. Chiappini and R. M. Bottino</i>	147
Virtual Environment of Water Molecules for Learning and Teaching Science J. F. Trindade, C. Fiolhais, V. Gil and J. C. Teixeira	153
 Evaluation of Driving Education Methods in a Driving Simulator J. M. Leitão, A. Moreira, J. A. Santos, A. A. Sousa and F. N. Ferreira 	159
Scientific Visualization as a Tool for Power Engineering Education <i>P. Slavik and F. Hrdlicka</i>	165
5 - Training for Real World Applications	
Presentations	
Training in Computer Graphics for Entertainment Production: What Future TDs Need to Know <i>J. F. Morie</i>	171

6 - Human-Computer Interaction

Presentations	
Human-Computer Interaction and Cognitive Psychology in Visualization Education <i>T. T. Hewett</i>	175
Position Papers	
The Human-Computer Interfaces Course at IST M. R. Gomes, J. M. Brisson Lopes and M. J. Fonseca	179
7 - Media Education	
Presentations	
Media Education at the Bauhaus-University Weimar C. A. Wüthrich	185
Position Papers	
Defining Interactive Multimedia Education: Expanding the Boundaries <i>B. Mitchell</i>	191
8 - Courseware	
Presentations	
Modularity: The Key to Courseware Re-use J. C. Teixeira	197
Position Papers	
Courseware Reuse or Courseware to Reuse? J. C. Teixeira, C. Páris, J. Madeira and J. Brisson Lopes	199
Framework for Development of Course Material for Teaching Computer Graphics V. V. Kamat	203
List of Participants	207
List of Farticipants	207