

Contents

1	Computer Animated Mathematics Videotapes	
	<i>Tom M. Apostol</i>	1
2	A Virtual Reconstruction of a Virtual Exhibit	
	<i>Thomas F. Banchoff and Davide P. Cervone</i>	29
3	An Intuitive Approach to Elementary Mathematics on the Web	
	<i>Bruce Bauslaugh, Richard Cannings, Claude Laflamme, and W. Keith Nicholson</i>	39
4	OpenMath Technology for Interactive Mathematical Documents	
	<i>Olga Caprotti, Arjeh M. Cohen, Hans Cuypers, and Hans Sterk</i> . . .	51
5	The StageTools Package for Creating Geometry for the Web	
	<i>Davide P. Cervone</i>	67
6	Communicating and Learning Mathematics with Hypervideo	
	<i>Teresa Chambel and Nuno Guimarães</i>	79
7	Collaboration in a Multimedia Laboratory	
	<i>Éliane Cousquer</i>	93
8	jDvi – A Way to Put Interactive TeX on the Web	
	<i>Tim Hoffmann</i>	117
9	Visual Calculus – Development and Tools	
	<i>Lawrence S. Husch</i>	131
	Color Plates	141
10	EG-Models – A New Journal for Digital Geometry Models	
	<i>Michael Joswig and Konrad Polthier</i>	165

11	The Future of Mathematical Software <i>Ulrich H. Kortenkamp</i>	191
12	A Dynamic Setup for Elementary Geometry <i>Ulrich H. Kortenkamp and Jürgen Richter-Gebert</i>	203
13	Dynamic Geometry on WWW <i>Gilles Kuntz</i>	221
14	Minimalistic Tools for Mathematical Multimedia <i>Erich Neuwirth</i>	231
15	Publication of Interactive Visualizations with JavaView <i>Konrad Polthier, Samy Khadem, Eike Preuß, and Ulrich Reitebuch</i>	241
16	The Solver Learning Environment for Solving Mathematical Word Problems: Pupils' Discussions <i>Heli Ruokamo</i>	265
17	Interactive Knot Theory with KnotPlot <i>Robert G. Scharein and Kellogg S. Booth</i>	277
18	Developing Gato and CATBox with Python: Teaching Graph Algorithms through Visualization and Experimentation <i>Alexander Schliep and Winfried Hochstättler</i>	291
19	Rescalable Real-Time Interactive Computer Animations <i>John M. Sullivan</i>	311

Multimedia Tools for Communicating Mathematics

Borwein, J.; Morales, M.H.; Polthier, K.; Rodrigues, J.F.

(Eds.)

2002, VIII, 314 p., Hardcover

ISBN: 978-3-540-42450-5