

Cambridge University Press 978-0-521-61739-0 - Learning with Animation: Research Implications for Design Edited by Richard Lowe and Wolfgang Schnotz Table of Contents More information

Contents

Prej	ace	page VII
SEC	TION ONE. INFORMATION SEARCH AND PROCESSING	
1	Effects of Knowledge and Spatial Ability on Learning from Animation Mary Hegarty and Sarah Kriz	3
2	Research-Based Principles for Learning with Animation Richard E. Mayer	30
3	Learning from Animation: Where to Look, When to Look <i>Richard Lowe</i>	49
SEC	TION TWO. INDIVIDUAL DIFFERENCES AND STRATEGIES	;
4	Successful and Less Successful Use of Dynamic Visualizations in Instructional Texts Rolf Ploetzner, Daniel Bodemer, and Sieglinde Neudert	71
5	Functions of Animation in Comprehension and Learning Wolfgang Schnotz and Thorsten Rasch	92
6	Animations of Thought: Interactivity in the Teachable Agent Paradigm Daniel L. Schwartz, Kristen P. Blair, Gautam Biswas, Krittaya Leelawong, and Joan Davis	114
7	Making Sense of Animation: How Do Children Explore Multimedia Instruction? Mireille Bétrancourt and Alain Chassot	141



Cambridge University Press 978-0-521-61739-0 - Learning with Animation: Research Implications for Design Edited by Richard Lowe and Wolfgang Schnotz Table of Contents More information

vi	Content	
8	Mental Representations, Cognitive Strategies, and Individual Differences in Learning with Animation: Commentaries on Sections One and Two <i>John R. Kirby</i>	165
SECTION THREE. INTERACTIVITY AND LEARNING		
9	Animated Pedagogical Agents: How Do They Help Students Construct Knowledge from Interactive Multimedia Games? Roxana Moreno	183
10	Young Learners' Control of Technical Animations Jean-Michel Boucheix	208
11	Turning the Tables: Investigating Characteristics and Efficacy of Student-Authored Animations and Multimedia Representations Teresa Hübscher-Younger and N. Hari Narayanan	235
SECTION FOUR. INSTRUCTIONAL ISSUES		
12	Enriching Animations Barbara Tversky, Julie Heiser, Rachel Mackenzie, Sandra Lozano, and Julie Morrison	263
13	A Comparison of How Animation Has Been Used to Support Formal, Informal, and Playful Learning <i>Yvonne Rogers</i>	286
14	A Unified View of Learning from Animated and Static Graphics Wolfgang Schnotz and Richard Lowe	304
15	Animating the Issues for Research on Animation: Commentary on Sections Three and Four Susan R. Goldman	357
Aut	Author Index	

Subject Index

379