Table of Contents

Preface.................................................................................................................................................. xvii

Chapter 1
Issues and Concerns of K-12 Educators on 3-D Multi-User Virtual Environments in Formal Classroom Settings .............................................................. 1
   Greg Jones, University of North Texas, USA
   Scott Warren, University of North Texas, USA

Chapter 2
Digital Dome vs. Desktop Display in an Educational Game: Gates of Horus ................................. 13
   Jeffrey Jacobson, PublicVR, USA

Chapter 3
Virtual Learning Environments – The oLTECx: A Study of Participant Attitudes and Experiences ... 35
   Adriana D’Alba, University of North Texas, USA
   Anjum Najmi, University of North Texas, USA
   Jonathan Gratch, University of North Texas, USA
   Chris Bigenho, University of North Texas, USA

Chapter 4
Virtual Tutor Training: Learning to Teach in a Multi-User Virtual Environment.......................... 51
   Lee L. Mason, Utah State University, USA
   Tae K. Jeon, Utah State University, USA
   Peter Blair, Utah State University, USA
   Nancy Glomb, Utah State University, USA

Chapter 5
Learning to Become Citizens by Enacting Governorship in the Statecraft Curriculum: An Evaluation of Learning Outcomes ......................................................... 68
   Yam San Chee, Nanyang Technological University, Singapore
   Susan Gwee, Nanyang Technological University, Singapore
   Ek Ming Tan, Nanyang Technological University, Singapore
Chapter 6
Strategies to Teach Game Development Across Age Groups ................................................................. 95
Lakshmi Prayaga, University of West Florida, USA
James W. Coffey, University of West Florida, USA
Karen Rasmussen, University of West Florida, USA

Chapter 7
Negotiating Students’ Conceptions of “Cheating” in Video Games and in School .............................. 111
Karla R. Hamlen, Cleveland State University, USA
Holly E. Gage, Cleveland State University, USA

Chapter 8
Television, Games, and Mathematics: Effects of Children’s Interactions with Multiple Media....... 124
Sandra Crespo, Michigan State University, USA
Vincent Melfi, Michigan State University, USA
Shalom M. Fisch, MediaKidz Research & Consulting, USA
Richard Lesh, Indiana University, USA
Elizabeth Motoki, Indiana University, USA

Chapter 9
Optimizing the Psychological Benefits of Choice: Information Transparency and Heuristic Use in Game Environments .................................................................................................................. 142
James J. Cummings, Stanford University, USA
Travis Ross, Indiana University, USA

Chapter 10
Impacts of Forced Serious Game Play on Vulnerable Subgroups ......................................................... 158
Carrie Heeter, Michigan State University, USA
Yu-Hao Lee, Michigan State University, USA
Brian Magerko, Georgia Institute of Technology, USA
Ben Medler, Georgia Institute of Technology, USA

Chapter 11
Playful Learning Experiences: Meaningful Learning Patterns in Players’ Biographies................... 177
Konstantin Mitgutsch, Singapore - MIT GAMBIT Game Lab, Massachusetts Institute of Technology, USA

Chapter 12
Videogames and the Ethics of Care ......................................................................................................... 193
John Murphy, DePaul University, USA
José Zagal, DePaul University, USA
Chapter 13
Investigating Youth’s Life Online Phenomena: Subverting Dichotomies through Negotiation of Offline and Online Identities.................................................................................................................. 206
Azilawati Jamaludin, National Institute of Education, Singapore
Yam San Chee, National Institute of Education, Singapore

Chapter 14
Behind the MASK: Motivation through Avatar Skills and Knowledge......................................................... 225
Yadi Ziaehezarjeribi, Indiana State University, USA
Ingrid Graves, Indiana State University, USA

Chapter 15
Relations Between Videogame Play and 8th-Graders’ Mathematics Achievement ....................................... 240
Scott Tobias, Kent State University at Stark, USA
Duane Rudy, University of Missouri, USA
Jean Ispa, University of Missouri, USA

Chapter 16
Levels of Failure and Learning in Games ........................................................................................................... 262
Matthew J. Sharritt, Situated Research, LLC, USA
Daniel D. Suthers, University of Hawaii at Manoa, USA

Chapter 17
Procedural Ethos: Confirming the Persuasive in Serious Games ................................................................. 279
Michael A. Evans, Virginia Tech, USA

Compilation of References ........................................................................................................................................ 292

About the Contributors .......................................................................................................................................... 323

Index......................................................................................................................................................................... 329