Table of Contents

Preface .................................................................................................................................................. xvi

Section 1  Theories of Technology-Infused Education

Chapter 1  The (Revised List of) Top 10 Technologies for 21st Century Instruction ....................... 1
  Lawrence A. Tomei, Robert Morris University, USA

Chapter 2  ICT in Chinese Higher Education: Opportunities and Challenges .............................. 20
  Xiaobin Li, Brock University, Canada

Chapter 3  Transformative Learning and Technology in Adult and Vocational Education ............ 34
  Victor C. X. Wang, Florida Atlantic University, USA
  Patricia Cranton, University of New Brunswick, Canada

Chapter 4  Development of a Scale to Measure Attitudes toward Information Technology ............ 49
  Anu A. Gokhale, Illinois State University, USA
  Kenton F. Machina, Illinois State University, USA

Chapter 5  A Model for an Adaptive Hypermedia Learning System Based on Data Mining Technique ........ 65
  Mahnane Lamia, University of Badji Moktar, Algeria
  Mohamed Hafidi, University of Badji Moktar, Algeria

Chapter 6  Teachers’ Use of Assistive Technologies in Education ..................................................... 86
  Vicki Donne, Robert Morris University, USA
  Mary Hansen, Robert Morris University, USA
Chapter 7
Assessing Impact of ICT Intercultural Work: The Dissolving Boundaries Program ........................................... 102
  Angela Rickard, Maynooth University, Ireland
  Roger S. P. Austin, Ulster University, Northern Ireland

Chapter 8
Pre-Service Teachers’ Motivation to Use Technology and the Impact of Authentic Learning Exercises .......................................................................................................................... 121
  Jennifer R. Banas, Northeastern Illinois University, USA
  Cynthia S. York, Northern Illinois University, USA

Chapter 9
Collaborative Learning on Decentralized Ubiquitous Environments ............................................................... 141
  Jorge Luis Victória Barbosa, University of Vale do Rio dos Sinos (UNISINOS), Brazil
  Débora Nice Ferrari Barbosa, FEEVALE University, Brazil
  Sandro José Rigo, University of Vale do Rio dos Sinos (UNISINOS), Brazil
  Jezer Machado de Oliveira, University of Vale do Rio dos Sinos (UNISINOS), Brazil
  Solon Andrade Rabello Junior, University of Vale do Rio dos Sinos (UNISINOS), Brazil

Chapter 10
The Influence of Clickers Use on Metacognition and Learning Outcomes in College English Classroom ......................................................................................................................... 158
  Yu Zhonggen, Hohai University, China

Section 2
Applications of Technology-Infused Education

Chapter 11
Transmedia Storytelling Edutainment and the Contemporary Textbook in Higher E-Education ...... 173
  Stavroula Kalogeras, The Business College of Athens, Greece, Tiffin University, USA &
  Queens University of Charlotte, USA

Chapter 12
Adoptability of E-Textbooks Featuring Educational Online Games .............................................................. 188
  Do Kyun Kim, University of Louisiana at Lafayette, USA
  Lucian F. Dinu, University of Louisiana at Lafayette, USA
  Chang Geun Kim, Smart Leap Co., Ltd., USA

Chapter 13
Perceptions of Professors and Students towards Moodle: A Case Study......................................................... 206
  Hoda Baytiyeh, American University of Beirut, Lebanon

Chapter 14
Technology-Infused Education: The Influence of Course Environment Factors ..................................................... 230
  Tim Klaus, Texas A&M University – Corpus Christi, USA
  Chuleeporn Changchit, Texas A&M University – Corpus Christi, USA
Chapter 15
Technology-Infused Education and Academic Integrity: Are They Compatible?.............................. 241
   Michele T. Cole, Robert Morris University, USA
   Louis B. Swartz, Robert Morris University, USA
   Daniel J. Shelley, Robert Morris University, USA

Chapter 16
E-Learning 2.0: A Case Study Exploring the Integration of Social Media into Online Courses ....... 263
   Steve Chi-Yin Yuen, University of Southern Mississippi, USA
   Gallayanee Yaoyuneyong, University of Southern Mississippi, USA

Chapter 17
Virtual Worlds Applications for Management Education................................................................. 279
   Amaro Linda Zanela Klein, Unisinos University, Brazil
   Angilberto Sabino de Freitas, Unigranrio - University of Grande Rio, Brazil
   Lisyane Machado, Unisinos University, Brazil
   José Carlos da Silva Freitas Jr., Unisinos University, Brazil
   Paulo Gaspar Graziola Jr., Federal University of Paraná, Brazil
   Eliane Schlemmer, Unisinos University, Brazil

Chapter 18
   Saurabh Gupta, Kennesaw State University, USA

Chapter 19
Instructional Videos as ICT for Teacher Professional Development: Transitioning from the
Traditional Classroom to YouTube .................................................................................................. 317
   George Semich, Robert Morris University, USA
   Jenna Copper, Wilmington Area School District, USA

Compilation of References ............................................................................................................... 332

About the Contributors .................................................................................................................... 378

Index ............................................................................................................................................... 386