# Table of Contents

**Preface** .................................................................................................................................................. xvi

**Acknowledgment** ............................................................................................................................... xviii

**Section 1**  
**Learning Management Systems: Choice, Implementation, Transition**

**Chapter 1**  
Learning Management Systems: A Look at the Big Picture ................................................................. 1  
*Anthony A. Piña, Sullivan University System, USA*

**Chapter 2**  
Learning Management System Evaluation and Selection: A Case Study of the University of  
Massachusetts System Methodology for the Learning Platform Review ................................................. 20  
*Apostolos Koutropoulos, University of Massachusetts Boston, USA*

**Chapter 3**  
LMS Implementation in Startup Institutions: Case Study of Three Projects ...................................... 40  
*Sergey Butakov, Concordia University College of Alberta, Canada*  
*Oleg Solodky, Altai Academy of Economics and Law, Russia*  
*Bobby Swar, SolBridge International School of Business, South Korea*

**Chapter 4**  
Lessons Learned from a Course Management System Review at the University of Florida ............ 55  
*Tawnya Means, University of Florida, USA*  
*Douglas Johnson, University of Florida, USA*  
*Randy Graff, University of Florida, USA*

**Chapter 5**  
Challenges of LMS Implementation in a Multi-Cultural Context ......................................................... 72  
*Ross Ian Vance, Lee University, USA*  
*Beth Crawford, University of Tennessee at Chattanooga, USA*
Chapter 6
E-Learning Service Delivery Quality: A Determinant of User Satisfaction ........................................ 89
Ahmed Younis Alsabawy, University of Southern Queensland, Australia & University of Mosul, Iraq
Aileen Cater-Steel, University of Southern Queensland, Australia
Jeffrey Soar, University of Southern Queensland, Australia

Section 2
Tools and Technologies for Asynchronous and Synchronous Content Delivery

Chapter 7
Embedding Plagiarism Detection Mechanisms into Learning Management Systems .................. 129
Sergey Butakov, Concordia University College of Alberta, Canada
Vladislav Shcherbinin, Crot Software, Canada
Vadim Diagilev, Altai State Technical University, Russia
Alexander Tskhay, Altai Academy of Economics and Law, Russia

Chapter 8
Tools and Methodologies for Teaching Online Computer-Science Courses in LMS Environment .. 144
Vladimir V. Riabov, Rivier University, USA

Chapter 9
Synchronous Tools in Support of Teaching and Learning ................................................................. 172
Clark Shah-Nelson, Johns Hopkins Bloomberg School of Public Health, USA

Chapter 10
Integrating iPad Technology in Learning Experiences: A Case Study of an iPad Pilot Project ....... 192
Rebecca Curtin, Shanghai World Foreign Language Middle School, Australia
Michael Tarnow, Shanghai World Foreign Language Middle School, USA

Chapter 11
Web 2.0 Tools in Biomedical Education: Limitations and Possibilities ........................................... 208
Ângelo Jesus, Instituto Politécnico do Porto, Portugal & Universidade do Minho, Portugal
Maria João Gomes, Universidade do Minho, Portugal

Section 3
Instructional Design and Best Practices in Online Teaching and Learning

Chapter 12
The Evolving Role of the Instructor in the Digital Age ................................................................. 233
Michael Beaudoin, University of New England, USA
Chapter 13
Leveraging Learning Theory and Learning Management Systems in Higher Education:
The Critical Role of Instructor Facilitation ................................................................. 248
  Colleen S. Harris, University of Tennessee at Chattanooga, USA
  David W. Rausch, University of Tennessee at Chattanooga, USA

Chapter 14
Challenges Encountered in Creating Personalised Learning Activities to Suit Students Learning Preferences .............................................................. 263
  Eileen O’Donnell, Trinity College Dublin, Ireland
  Mary Sharp, Trinity College Dublin, Ireland
  Vincent Wade, Trinity College Dublin, Ireland
  Liam O’Donnell, Dublin Institute of Technology, Ireland

Chapter 15
Practices and Tools in Online Course Delivery ....................................................... 288
  Nory B. Jones, University of Maine Business School, USA
  Christian Graham, University of Maine Business School, USA

Chapter 16
Online Course Activities: A Case Study of Assignments and Assessment Types .......... 303
  Melanie Shaw, Walden University, USA
  Kelley Walters, Walden University, USA
  Todd Kane, Colorado State University, USA
  David Long, University of Florida, USA

Section 4
Virtual Learning Environments: Frontiers and Applications

Chapter 17
Immersive Virtual Environments to Facilitate Authentic Education in Logistics and Supply Chain Management ................................................................. 323
  Torsten Reiners, Curtin University, Australia
  Lincoln C. Wood, Auckland University of Technology, New Zealand & Curtin University, Australia

Chapter 18
The Role of Learning Management Systems in Early Childhood Education ................. 344
  Jim Prentzas, Democritus University of Thrace, Greece
  Theodosios Theodosiou, Democritus University of Thrace, Greece
Chapter 19
Virtual Tools in Medical Education ................................................................. 364
   Jason H. Epstein, Icahn School of Medicine at Mount Sinai, USA
   Andrew Goldberg, Icahn School of Medicine at Mount Sinai, USA
   Marina Krol, Icahn School of Medicine at Mount Sinai, USA
   Adam Levine, Icahn School of Medicine at Mount Sinai, USA

Compilation of References .................................................................................. 381

About the Contributors ......................................................................................... 429

Index ..................................................................................................................... 439