# Table of Contents

**Foreword** .............................................................................................................................................. xix

**Preface** .................................................................................................................................................. xxi

**Acknowledgment** .............................................................................................................................. xxvi

**Chapter 1**
Professional Development for Technology Integration into Differentiated Math Instruction .......... 1

  Jackie HeeYoung Kim, Armstrong State University, USA
  Ardyth Foster, Armstrong State University, USA
  Moon-Heum Cho, Sungkyunkwan University, South Korea

**Chapter 2**
Mobile Technology Integration and English Language Learners: A Case Study......................... 25

  Jung Won Hur, Auburn University, USA

**Chapter 3**
Integrating iPads in Middle School Science Instruction: A Case Study........................................ 42

  Lana M. Minshew, University of North Carolina at Chapel Hill, USA
  Janice L. Anderson, University of North Carolina at Chapel Hill, USA

**Chapter 4**
ICT Literacy Integration: Issues and Sample Efforts......................................................................... 59

  Lesley S. J. Farmer, California State University – Long Beach, USA

**Chapter 5**
Reconceptualizing Universal Design for Learning (UDL) as Learning Technology in Non-Formal Education .......................................................................................................................... 81

  Laura R. Ficarra, Independent Researcher, USA
  Deborah A. Chapin, University at Albany, State University of New York, USA
Chapter 6
Digital Wellness: Integrating Wellness in Everyday Life with Digital Content and Learning Technologies ................................................................. 103
  Chadwick Royal, North Carolina Central University, USA
  Suzan Wasik, North Carolina Central University, USA
  Robert Horne, North Carolina Central University, USA
  Levette S. Dames, North Carolina Central University, USA
  Gwen Newsome, North Carolina Central University, USA

Chapter 7
Fully Online Education and Underserved Populations .................................................. 118
  Rochelle R. Newton, Duke University, USA

Chapter 8
Enhancing Learner-Centered Instruction through Tutorial Management Using Cloud Computing ........................................................................................................ 137
  John K. Thuku, Kenyatta University, Kenya
  Elizaphan M. Maina, Kenyatta University, Kenya
  Samson R. Ondigi, Kenyatta University, Kenya
  Henry O. Ayot, Kenyatta University, Kenya

Chapter 9
Opportunity to Start Strong: Integration of Technology in Science Lessons in the Early Elementary Grades ............................................................... 154
  Dalila Dragnic-Cindric, University of North Carolina at Chapel Hill, USA
  Elizabeth Barrow, University of North Carolina at Chapel Hill, USA
  Janice L. Anderson, University of North Carolina at Chapel Hill, USA

Chapter 10
The Use of Social Media to Facilitate Real-Time eLearning ........................................ 171
  Njoroge P. Kahenya, Africa Nazarene University, Kenya

Chapter 11
Facilitating Multicultural Student Team Engagement in Higher Education: A Model for Digital Learning Environments ......................................................................... 184
  Soo Jeoung Han, Texas A&M University, USA
  Carla Liau-Hing, Texas A&M University, USA
  Michael Beyerlein, Texas A&M University, USA

Chapter 12
Makerspaces: Materializing, Digitizing, and Transforming Learning ................................ 211
  Marguerite Koole, University of Saskatchewan, Canada
  Jean-François Dionne, University of Saskatchewan, Canada
  Evan Todd McCoy, University of Saskatchewan, Canada
  Jordan Epp, University of Saskatchewan, Canada
Chapter 13
Distance Learning in Kenyan Universities: The Relationship between Learners’ Characteristics and Academic Performance ................................................................. 231
  Winfred K. Kithinji, Kenya Methodist University, Kenya
  Anne W. Kanga, Catholic University of Eastern Africa, Kenya

Chapter 14
Active Student Engagement through the Use of WebEx, MindTap, and a Residency Component to Teach a Masters Online Group Counseling Course ......................................................... 245
  Levette S. Dames, North Carolina Central University, USA
  Chadwick Royal, North Carolina Central University, USA
  Kyla M. Sawyer-Kurian, North Carolina Central University, USA

Chapter 15
Promoting Active Learning in Mathematics Teacher Education: The Flipped Classroom Method and Use of Video Content ................................................................. 269
  Rukiye Didem Taylan, MEF University, Turkey

Chapter 16
Integrating Disciplinary Literacy Practices in One-to-One Classrooms ........................................ 285
  Emily L. Freeman, University of North Carolina at Chapel Hill, USA
  Alexandra J. Reyes, University of North Carolina at Chapel Hill, USA
  Dalila Dragnic-Cindric, University of North Carolina at Chapel Hill, USA
  Janice L. Anderson, University of North Carolina at Chapel Hill, USA

Chapter 17
Using Hearing Assistance Technology to Improve School Success for All Children ................. 311
  Diane M. Scott, North Carolina Central University, USA

Chapter 18
Mobile Learning: Content Format and Packaging for Effective Teaching and Learning in a Learner-Centered Pedagogy ................................................................. 329
  Bonface Ngari Ireri, University of Free State, South Africa
  Ruth Diko Wario, University of Free State, South Africa
  Elijah I. Omwenga, University of Nairobi, Kenya
  Robert Oboko, University of Nairobi, Kenya
  Mwingirwa Irene Mukiri, Africa Nazarene University, Kenya

Chapter 19
Leadership in Global Open, Online, and Distance Learning ....................................................... 345
  Ebba Ossiannilsson, Swedish Association for Distance Education, Sweden & Swedish Association for E-Competence, Sweden
Chapter 20
A Blueprint for Online Licensed Practical Nurse Training .......................................................... 374
    Shani Salifu, Carilion Clinic, USA

Compilation of References ........................................................................................................... 393

About the Contributors ................................................................................................................. 441

Index............................................................................................................................................... 451