Advancing Next-Generation Teacher Education through Digital Tools and Applications

Table of Contents

Section 1
Acceptance, Access, and Inclusivity

Chapter 1
Strategies to Increase Technology Acceptance
Gary L. Ackerman, Rivendell Academy, USA

Chapter 2
Sociotechnical and Pedagogical Barriers to Technology Integration
Nicholas Wilson, Stanford University, USA

Chapter 3
Universal Design for Learning: Using UDL to Make Teacher Education More Accessible and Inclusive for All
James Cressey, Framingham State University, USA

Section 2
Technology and Teacher Preparation

Chapter 4
Applying Learning Theories to Computer Technology Supported Instruction
Erol K Bailey, Westfield State University, USA

Chapter 5
Technology Integration in Pre-Service Teacher Education Programs: Research-based Recommendations
Joan Marie Giovannini, Holyoke Community College, USA

Chapter 6
Developing Digital Literacy: Preparing Next Generation Elementary Education Literacy Teachers
Carolyn Haviland Obel-Omia, Rhode Island College, USA

Chapter 7
The Effect of Technology-enhanced Classrooms in Middle School Education
Ramadan Eyyam, Eastern Mediterranean University, North Cyprus

Chapter 8
Preparing Next Generation Elementary Teachers for the Tools of Tomorrow
Oliver Dreon, Millersville University, USA
Jennifer Shettel, Millersville University, USA
Kevin M. Bower, Penn Manor School District, USA
Section 3

The Changing Role of Digital Tools

Chapter 9
From 2D Thinking to 3D Printing: Preservice and In-service Teacher Teams Explore a New Technology
Torrey Trust, University of Massachusetts Amherst, USA
Robert W Maloy, University of Massachusetts Amherst, USA
Suzan Kommers, University of Massachusetts Amherst, USA

Chapter 10
The Emergence of Student-Centered Teaching in Professional Learning Networks on Twitter: The Role of Choice and Voice
Anna Noble, Boston College, USA
Patrick McQuillan, Boston College, USA
Shaneé Wangia, Boston College, USA
Kate Soules, Boston College, USA

Chapter 11
Implementation of Online Education for K-12 School Children
Charlene Marie Jones, Wayne State University, USA

Chapter 12
Teacher, Students, and MOOCs: Innovating and Researching Teacher Training
Carlos Monge López, Universidad de Alcalá, Spain
Patricia Gómez Hernández, Universidad de Alcalá, Spain

Section 4

Digital Literacy and the Changing Role of the Library

Chapter 13
Let it go: A Journey Toward Elementary Student-driven Media Production Aligned with the CCSS
Yonty Friesem, Central Connecticut State University, USA
Brien J. Jennings, Narragansett Elementary School, USA
Carol Prest, Narragansett Elementary School

Chapter 14
Elementary Library Media Specialists’ Roles in the Implementation of the Common Core State Standards
Kelly Paynter, Jacksonville State University, USA