Dynamic Advancements in Teaching and Learning Based Technologies: New Concepts

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Immeasurable advances in our culture have led to a more knowledge-based society in recent years. This has impacted individual and organizational learning and how it is delivered and experienced. Technology plays an important role in supporting learning through various disciplines now and in the future.

Dynamic Advancements in Teaching and Learning Based Technologies: New Concepts explores the technical, social, cultural, organizational, human, cognitive, and commercial impact of technology. This exciting new publication explores the impact of Web-based technology on the design, implementation and evaluation of the learning and teaching process, as well as the development of new activities, relationships, skills, and competencies for the various actors implied in such processes. It expands on the overall body of knowledge relating to multi-dimensional aspects of Web-based technologies in up to date educational contexts.

Topics Covered:
- Building multi-disciplinary teams for Web-based learning and teaching
- Building Web-based learning communities
- Constructivist approaches to Web-based learning and teaching
- Decision making in implementing Web-based learning and teaching
- Knowledge building using Web-based learning and teaching technologies
- Management side of Web-based learning and teaching
- Network learning using WLTT
- Project management for implementing WLTT
- Web-based CSCL
- Web-based technologies enabled pedagogical systems and programs
- WLTT implementation: models, methods, and frameworks

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.
Section 1:

Chapter 1
The Effectiveness of Scaffolding in a Web-Based, Adaptive Learning System
Chang Mei-Yu (National Hsinchu University of Education, Taiwan)
Tarng Wernhuar (National Hsinchu University of Education, Taiwan)
Shin Fu-Yu (Chien-Kuo Elementary School, Taiwan)

Chapter 2
Student and Teacher Perspectives Testing a System for Adaptive e-Learning
Limongelli Carla (Roma Tre University, Italy)
Sciarrone Filippo (Open Informatica, Italy)
Temperini Marco (Sapienza University of Rome, Italy)
Vaste Giulia (Roma Tre University, Italy)

Chapter 3
A Case-Based Approach to Adaptive Hypermedia Navigation
Micarelli Alessandro (Roma Tre University, Italy)
Sciarrone Filippo (Roma Tre University, Italy)
Gasparetti Fabio (Roma Tre University, Italy)

Chapter 4
Animated Pedagogical Agents:
Heller R. (Athabasca University, Canada)
Procter M. (Athabasca University, Canada)

Chapter 5
A Case Study of Ontology-Driven Development of Intelligent Educational Systems
Deline Gordon (CBC/Radio-Canada, Canada)
Lin Fuhua (Athabasca University, Canada)
Wen Duwei (Athabasca University, Canada)
Gašević Dragan (Athabasca University, Canada)
Kinshuk (Athabasca University, Canada)

Section 2:

Chapter 6
Learning with Online Activities:
Abdallah Salam (Abu Dhabi University, UAE)

Chapter 7
Analyzing functionalities of Course Management Systems:
Adhikari V. (University of Baltimore, USA)
Aggarwal A. (University of Baltimore, USA)

Chapter 8
A Learning Platform For The Introduction Of Remote Sensing Principles In Higher Education In A Blended Learning Collaborative Environment
Adaktilou Nektaria (University of Athens, Greece)
Cartalis Costas (University of Athens, Greece)
Kalkanis George (University of Athens, Greece)

Chapter 9
An Evaluation of Blending Technology with Pedagogy for Teaching Educators and its Implication for their Classroom Teaching
Kennedy Carol Kahan (Fordham University, USA)
Hinkley Maureen (Fairfield University, USA)

Section 3:

Chapter 10
Redefining Web Users' Optimal Flow Experiences In Online Environments:
Atabia Amusha Saxena (Savannah State University, Savannah, USA)
Raisinghani Mahesh S. (TWU School of Management, USA)

Chapter 11
Addressing Contemporary Challenges in Cognitively-Complex Collaboration with CoPe_it!
Karacapilidis Nikos (University of Patras & Research Academic Computer Technology Institute, Greece)
Tsagarakis Manolis (University of Patras & Research Academic Computer Technology Institute, Greece)
Karouzos Nikos (Hellenic Open University, Greece)
Gkonis George (University of Patras, Greece)
Kallistratos Vassilis (Research Academic Computer Technology Institute, Greece)
Christodoulou Spyros (Research Academic Computer Technology Institute, Greece)
Metoutris Christos (Research Academic Computer Technology Institute, Greece)
Nousia Dora (Research Academic Computer Technology Institute, Greece)

Chapter 12
Integrating XML Technologies and Open Source Software for Personalization in E-Learning
Lee Hsun-Ming (Texas State University-San Marcos, USA)
Davis Robert A. (Texas State University-San Marcos, USA)
Chi Yu-Liang (Chung Yuan Christian University, Taiwan)

Chapter 13
Autism and Family Interventions Through Technology:
Ferdig Richard E. (Kent State University, USA)
Antberg Hilary G. (University of Florida, USA)
Elder Jennifer H. (University of Florida, USA)
Donaldson Susan A. (University of Florida, USA)
Valcante Gregory (University of Florida, USA)
Bendixen Roxanna (University of Florida, USA)

Section 4:

Chapter 14
Learner-Centered Teaching and the Use of Technology
Greer Annette (East Carolina University, USA)
Mott Vivian W. (East Carolina University, USA)

Chapter 15
Teaching with Technology:
Wang Victor C. X. (Northcentral University, USA)

Chapter 16
The Role of Adult Education in Online Delivery of Career and Technical Education
Hernández-Gantes Victor M. (University of South Florida, USA)

Chapter 17
The Role of Learning Styles and Technology
Collins Royce Ann (Kansas State University, USA)

Chapter 18
Towards an Effective ICT-based University Learning
Ahedo Manuel (University Rovira i Virgili, Spain)

Chapter 19
What can we learn from the Past about Futures Technological Trends in Adult Education?
Hope John K (University of Auckland, New Zealand)