Table of Contents

Preface ................................................................................................................................................... xv

Acknowledgment ................................................................................................................................... xix

Chapter 1
Virtual Learning Environments: Design Factors and Issues ................................................................. 1
Badrul H. Khan, McWeadon Education, USA

Chapter 2
Understanding Evolution of Virtual Worlds Research: A Content Analytic Approach ......................... 16
Manish Gupta, State University of New York at Buffalo, USA
Rui Chen, Ball State University, USA

Chapter 3
User Interface Designs, Task Categories and Training ......................................................................... 41
Christina K. Curnow, ICF International, USA
Jeremy A. Henson, ICF International, USA
Robert A. Wisher, Naval Postgraduate School, USA

Chapter 4
Fiona Carroll, University of Glamorgan, UK

Chapter 5
Architectural Models for Reliable Multi-User Interfaces ....................................................................... 76
Mario Ciampi, ICAR-CNR, Italy
Antonio Coronato, ICAR-CNR, Italy
Giuseppe De Pietro, ICAR-CNR, Italy
Luigi Gallo, ICAR-CNR, Italy
Chapter 6
Information Architecture for the Design of a User Interface to Manage Educational Oriented Recommendations

Olga C. Santos, UNED, Spain & Cadius Community of Usability Professionals, Spain
Emanuela Mazzone, UNED, Spain & Cadius Community of Usability Professionals, Spain
Maria Jose Aguilar, Cadius Community of Usability Professionals, Spain
Jesus G. Boticario, UNED, Spain

Chapter 7
Utilizing Cognitive Resources in User Interface Designs

Serkan Özel, Bogazici University, Turkey

Chapter 8
Designing Usable Speech Input for Virtual Environments

Alex Stedmon, University of Nottingham, UK

Chapter 9
Exploiting the Power of Persistence for Learning in Virtual Worlds

Keysha I. Gamor, ICF International, USA

Chapter 10
Ontology-Driven Creation of Contents: Making Efficient Interaction between Organizational Users and Their Surrounding Tasks

Kambiz Badie, Research Institute for ICT (ITRC), Iran
Mahmood Kharrat, Research Institute for ICT (ITRC), Iran
Maryam Tayefeh Mahmoudi, Research Institute for ICT (ITRC), Iran & University of Tehran, Iran
Maryam S. Mirian, Research Institute for ICT (ITRC), Iran & University of Tehran, Iran
Tahereh M. Ghazi, Research Institute for ICT (ITRC), Iran
Sogol Babazadeh, Research Institute for ICT (ITRC), Iran

Chapter 11
Unconstrained Walking Plane as Locomotion Interface to Virtual Environment

Kanubhai K. Patel, Ahmedabad University, India
Sanjay Kumar Vij, SVIT, India

Chapter 12
Redefining the Role and Purpose of Learning

Stephen R Quinton, University of New South Wales, Australia

Chapter 13
Are Web Designers Resisting the Inclusion of Social Cues when Creating Website’s User Interface?

Ronan De Kervenoael, Sabanci University, Turkey & Aston University, UK
Christophe Bisson, Kadir Has University, Turkey
Mark Palmer, Birmingham University, UK
Chapter 14
Designing Mobile Learning for the User ................................................................. 226
Mohamed Ally, Athabasca University, Canada

Chapter 15
Issues and Challenges Associated with the Design of Electronic Textbook................... 236
Elena Railean, Information Society Development Institute, Republic of Moldova

Chapter 16
Using a Blueprint in the Design of Instruction for Virtual Environments ..................... 255
Mauri Collins, StRebel Design, LLC, USA

Chapter 17
Design and Robots for Learning in Virtual Worlds .................................................... 268
Michael Vallance, Future University Hakodate, Japan

Chapter 18
An Interface Design Evaluation of Courses in a Nursing Program using an E-Learning Framework: A Case Study ................................................................. 285
Brenda Tyczkowski, University of Wisconsin Green Bay, USA
Eric Bauman, Clinical Playground, LLC, USA
Susan Gallagher-Lepak, University of Wisconsin Green Bay, USA
Christine Vandenhouten, University of Wisconsin Green Bay, USA
Janet Resop Reilly, University of Wisconsin Green Bay, USA

Compilation of References .......................................................................................... 305

About the Contributors ............................................................................................... 344

Index ............................................................................................................................ 352