Usability Evaluation of Online Learning Programs

Table of Contents

Preface ........................................................................................................................................ viii
Claude Ghaoui
Liverpool John Moores University, UK

Section I: Using Virtual Learning Environments

Chapter I
ETH World—Implementation of a Virtual Campus Infrastructure and E-Learning at ETH Zurich ........................................................................................................................ 1
Anders Hagström, Swiss Federal Institute of Technology Zurich, Switzerland
Walter Schaufelberger, Swiss Federal Institute of Technology Zurich, Switzerland

Chapter II
Implementing Online Delivery and Learning Support Systems: Issues, Evaluation and Lessons ................................................................................................................. 19
J. Bernardes, University of Wolverhampton, UK
J. O’Donoghue, National ICT Research Centre for Education, Training and Employment, UK

Chapter III
Collaborative Learning On-Demand on the Internet Mbone ........................................ 40
Giancarlo Fortino, University of Calabria, Italy
Libero Nigro, University of Calabria, Italy

Chapter IV
Improving Usability of an Online Learning System by Means of Multimedia,
Collaboration and Adaptation Resources ........................................................................ 69
Elizabeth Furtado, Universidade de Fortaleza, Brazil
João José Vasco Furtado, Universidade de Fortaleza, Brazil
Fernando Lincoln Mattos, Universidade de Fortaleza, Brazil
Jean Vanderdonckt, Université Catholique de Louvain, Belgium

Section II: Methods, Pedagogy and Theories

Chapter V
Heuristic Evaluation of Web-Based ODL Programs ...................................................... 88
Athanasis Karoulis, Aristotle University of Thessaloniki, Greece
Andreas Pombortsis, Aristotle University of Thessaloniki, Greece
Chapter VI
Coming off the Rails: Evaluation and the Design Process ........................................... 110
Lizz Marr, Manchester Metropolitan University, UK
Dave Randall, Manchester Metropolitan University, UK and Blekinge Institute of Technology, Ronneby, Sweden
William L. Mitchell, The British Council, UK

Chapter VII
Developing and Supporting Research-Based Learning and Teaching through Technology ................................................................................................................ 128
Jacqueline Dempster, University of Warwick, UK

Chapter VIII
Online Learning for the Real World: Diploma in Computing Via the Internet ....... 159
Bridget Khursheed, University of Oxford, UK

Chapter IX
Usability Inspection of the ECONOF System’s User Interface Visualization Component ................................................................................................................. 177
Nadir Belkhiter, Université Laval, Quebec, Canada
Marie-Michèle Boulet, Université Laval, Quebec, Canada
Sami Baffoun, Université Laval, Quebec, Canada
Clermont Dupuis, Université Laval, Quebec, Canada

Chapter X
Issues of Quality in Online Degree Programmes .................................................... 198
Floriana Grasso, Liverpool University, UK
Paul Leng, Liverpool University, UK

Chapter XI
Learning Technologies and Learning Theories ....................................................... 218
Vivien Sieber, University of North London, UK
David Andrew, University of North London, UK

Chapter XII
Design Cycle Usability Evaluations of an Intercultural Virtual Simulation Game for Collaborative Learning ............................................................................. 233
Elaine M. Raybourn, Sandia National Laboratories, USA

Chapter XIII
Computer-Supported Network-Based Learning Environment for the Workplace .. 254
Joze Rugelj, University of Ljubljana, Slovenia; J. Stefan Institute, Slovenia

Section III: Managerial and Social Issues

Chapter XIV
Professional to Manufacturing Mode Due to Online University Education .......... 273
Roy Rada, University of Maryland, Baltimore County, USA
Chapter XV
Changing Roles and Processes in Online Tuition for Higher Education:
A Case Study for the UK Open University ......................................................... 283

Chapter XVI
Learnability ........................................................................................................ 299
Philip Duchastel, Information Design Atelier, USA

Chapter XVII
Usability Evaluation of Online Learning Programs: A Sociological Standpoint .... 313
Bernard Blandin, CESI-Online, France

Chapter XVIII
Security and Online Learning: To Protect or Prohibit ..................................... 331
Anne Adams, Middlesex University, UK
Ann Blandford, UCL Interaction Centre, UK

Chapter XIX
How Useful Are World Wide Web Discussion Boards and Email in Delivering a Case
Study Course in Reproductive Medicine ......................................................... 360
David Cahill, University of Bristol, UK
Julian Cook, University of Bristol, UK
Julian Jenkins, University of Bristol, UK

Chapter XX
Ensuring Optimal Accessibility of Online Learning Resources .................... 371
David Sloan, University of Dundee, Scotland
Lorna Gibson, University of Dundee, Scotland
Scott Milne, University of Dundee, Scotland
Peter Gregor, University of Dundee, Scotland

Chapter XXI
Online Learning for the Visually Impaired ..................................................... 387
Mirela Arion, Babes-Bolyai University, Romania
Marius Iulian Tutuianu, SISTEC SA, Romania

About the Authors .............................................................................................. 409

Index .................................................................................................................... 419