

Usability Evaluation of Online Learning Programs



Claude Ghaoui



Information Science Publishing

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
--	----

Athanasios 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, Univeristy 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
<i>Gordon Dyer, Open University in the East of England, Cambridge, UK</i>	
Chapter XVI	
Learnability	299
<i>Philip Duchastel, Information Design Atelier, USA</i>	
Chapter XVII	
Usability Evaluation of Online Learning Programs: A Sociological Standpoint	313
<i>Bernard Blandin, CESI-Online, France</i>	
Chapter XVIII	
Security and Online Learning: To Protect or Prohibit	331
<i>Anne Adams, Middlesex University, UK</i>	
<i>Ann Blandford, UCL Interaction Centre, UK</i>	
Chapter XIX	
How Useful Are World Wide Web Discussion Boards and Email in Delivering a Case Study Course in Reproductive Medicine	360
<i>David Cahill, University of Bristol, UK</i>	
<i>Julian Cook, University of Bristol, UK</i>	
<i>Julian Jenkins, University of Bristol, UK</i>	
Chapter XX	
Ensuring Optimal Accessibility of Online Learning Resources	371
<i>David Sloan, University of Dundee, Scotland</i>	
<i>Lorna Gibson, University of Dundee, Scotland</i>	
<i>Scott Milne, University of Dundee, Scotland</i>	
<i>Peter Gregor, University of Dundee, Scotland</i>	
Chapter XXI	
Online Learning for the Visually Impaired	387
<i>Mirela Arion, Babes-Bolyai University, Romania</i>	
<i>Marius Iulian Tutuianu, SISTEC SA, Romania</i>	
About the Authors	409
Index	419