Issues of Human Computer Interactions and System Developments

Sofianiza Abd Malik

IIUM PRESS
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
ISSUES OF HUMAN COMPUTER INTERACTIONS AND SYSTEM DEVELOPMENTS
ISSUES OF HUMAN COMPUTER INTERACTIONS AND SYSTEM DEVELOPMENTS

Editors
Sofianiza Abd Malik

IIUM Press
# CONTENTS

**DEDICATION** ........................................................................................................ iii
**PREFACE** ................................................................................................................ vii
**ACKNOWLEDGEMENT** .......................................................................................... viii
**INTRODUCTION** ..................................................................................................... ix
**LIST OF ABBREVIATIONS** ..................................................................................... x

1. User Experience On Educational Websites’ Search Engine  
   *Murni Mahmud, Idyawati Hussein, Sofiniza Abd Malik* ................................. 1

2. Cultural Differences In Use Of Mobile Phones By Older People  
   *Sofiniza Abd Malik, Alistair Edwards* .............................................................. 9

3. Older World: Developed Versus Developing Countries  
   *Sofiniza Abd Malik* ............................................................................................ 15

4. What Is Age?  
   *Sofiniza Abd Malik, Alistair Edwards* ............................................................. 25

5. Different Role Of Personas  
   *Sofiniza Abd Malik, Alistair Edwards* ............................................................. 31

6. Tagging Web Images For Blind Users  
   *Ahmad Fatzilah Misman, Peter Blanchfield* ...................................................... 41

7. Human-Computer Interaction Within The Malaysian University Curriculum  
   *Murni Mahmud, Idyawati Hussein, Abu Osman Md. Tap* ............................ 51
8. A Preliminary Study: Malaysian Women In Human-Computer Interaction Practices
Murni Mahmud, Idyawati Hussein, Abu Osman Md. Tap ......................... 65

9. Bab E-Syifa’ Clinic Administration System
Mohd Danel Abu Bakar, Roslina Othman ........................................ 71

10. Malaysian Teachers Network Portal
Mohd Naim Abdul Hamid, Roslina Othman ..................................... 91
6. TAGGING WEB IMAGES FOR BLIND USERS

Ahmad Fazilah Misman, Peter Blanchfield
Department of Information Systems, Faculty of Information and Communication Technology, International Islamic University Malaysia, Malaysia

ABSTRACT
One way to remedy the gap that evidently exists between the image element on the web and the web user who is visually blind is by redefining connection between the image and the abundant element of the web itself i.e. text. Studies on the web image automatic descriptors are largely done from the perspective of the fields of the HCI, the semantic web, the information retrieval or a hybrid approach. This paper however suggests that a solution is possible by adapting the web images resources considering the factors for web image’s being used in developer’s and blind user’s perspectives. An effective and appropriate auto image tagger may consider this view.

6.1 INTRODUCTION
Adapting web images to make them useful to blind users of the Internet presents a major technological challenge. In practice web images are commonly ignored by blind users due to the considerable difficulty in obtaining meaningful output. Evidence for this has been found from a preliminary study with users of a local blind centre. This is also supported by evidences from related studies (Petrie, O'Neill & Colwell, 2002, Petrie & Kheir, 2007).