The Web
Its Utilisation, Evaluation and Security

Media Anugerah Ayu

IIUM PRESS
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
THE WEB:
ITS UTILISATION, EVALUATION
AND SECURITY
THE WEB: ITS UTILISATION, EVALUATION AND SECURITY

Editor
Media Anugerah Ayu

IIUM Press
Published by: IIUM Press
CONTENTS

Preface .......................................................................................................................... v

Acknowledgement ................................................................................................. vi

1. eSurvia: A Web-based Survey Tool Using Fuzzy Conjoint Analysis
   Media Anugerah Ayu, Siti Aisyah Ismail, Abu Osman Md Tap ...................... 1

2. Hajj Pilgrims Tracking and Monitoring System
   Teddy Mantoro, Media Anugerah Ayu, Md. Akhtiaruzzaman, Murni Mahmud
   ............................................................................................................................. 11

3. Online Student Attendance Monitoring System
   Murni Mahmud, Zatil Azyyati Mustapha ......................................................... 23

4. Web-based AHP System
   Media Anugerah Ayu, Fadwa Gamal Mohammed Al-Azab ....................... 35

5. A Guideline for Using Web-based AHP System
   Media Anugerah Ayu, Fadwa Gamal Mohammed Al-Azab ....................... 49

6. Al-Islam Hospital Human Resource System
   Muhd Rosydi bin Muhammad, Fatima Hasan Ali Munassar .................... 58

7. Kulliyyah of Information and Communication Technology (KICT) Postgraduate System
   Teddy Mantoro, Media Anugerah Ayu, Ahmad Haitham Bin Yusop .......... 71

8. A Web for Supreme Judicial Institute Library in Yemen
   Media Anugerah Ayu, Abdulraoof Mohammed Al-Ghashm ...................... 81

9. Course Advisor System
   Abdul Rahman Ahsan, Nur Farhana Binti Ahmad ..................................... 91
10. Children Educare Center System
Murni Mahmud, Muhammad Firdaus B Abd Karim ..................................... 105

11. Angkatan Belia Islam Malaysia (ABIM) Membership Management System
Husnayati Hussin, Amila Norjihah bt Musa, Wan Nur Asma bt Wan Ahmad Puad ................................................................. 119

12. Intelligent Public Transport Guide System for Kuala Lumpur
Media Anugerah Ayu, Mohd Faisal bin Jamil ........................................ 131

13. E-Government Initiatives in Palestine
Mohamed Elgharabawy, Media Anugerah Ayu ...................................... 141

14. An Online Badminton Motion Tracking System
Normaziah A. Aziz, M. Amar Odenan, Taufiq M. Khadafi ..................... 149

15. Web-based Application That Support Active Learning
Jonathan Mamangkiang Mantikayan, Media Anugerah Ayu .................. 159

16. The Use of SAS for Enterprise Data Management
Mansur Aliyu, Murni Mahmud ............................................................... 168

Mohamed Elgharabawy, Media Anugerah Ayu ..................................... 180

18. Web Application Development Process
Adamu Ibrahim Abu Bakar, Teddy Mantoro ........................................ 189

19. Multimedia Elements and Internet
Maimona J. Badi, Akram M. Zeki ......................................................... 198

20. A Survey on Islamic Websites for Children
Zaidoon Kh. Abdulatif, Mustafa Nasser Ayif, Murni Mahmud ............... 202

21. Fuzzy Computing with Expressions for Evaluating Fonts Styles on Children Websites
Murni Mahmud, Noorhazwani Raja Mohd, Abu Osman Md Tap ........... 211
22. A Research Framework for User Centered Web Development
   Media Anugerah Ayu, Noor Azura Zakaria ........................................ 219

23. A Framework for Heuristic Evaluation on Islamic Websites
   Mumi Mahmud, Abu Osman Md Tap, Mansur Aliyu .............................. 226

24. Web Usability Survey Measurement
   Media Anugerah Ayu, Noor Azura Zakaria ........................................ 234

25. Measuring Information Contents Quality of E-Services through Mobile Devices
   Ikhtia Isam, Mumi Mahmud .............................................................. 240

26. Verification of Scholars and References in Islamic Websites
   Mumi Mahmud, Rasheed Muhammed Nasser, Abu Osman Md Tap .......... 250

27. Security of Multimedia in the Web
   Akram M. Zeki .................................................................................. 257

28. Web Application - What Makes it Secure or Insecure?
   Normaziah A.Aziz, Nor Harisah Zainuddin ......................................... 263

29. A Single Door to the Kulliyyah of Information and Communication Technology (KICT) Online Services
   Media Anugerah Ayu, Mohamed Elgharabawy, Mohammad Al-Mohaifer, Mamdooh Rameez ............................................................... 272
21. **Fuzzy Computing with Expressions for Evaluating Fonts Styles on Children Websites**

Murni Mahmud, Noorhazwani Raja Mohd, Abu Osman Md Tap  
Department of Information Systems, Kulliyyah of Information and  
Communication Technology, International Islamic University Malaysia,  
Malaysia

**ABSTRACT**

Children may have difficulty in understanding liked scale in rating websites. However, they are easily attracted to images and icons. Therefore, in any evaluation with children, use of images and icon can be used instead of numbers. This study proposes to try fuzzy computing with expression as a method for children to evaluate websites. It uses linguistic expressions as a method in the evaluation process. Linguistic expressions are applicable to children where expressions are much likeable by children than numerical scaling (e.g. 1 to 5 rating). Evaluation with linguistic expression is applied during the interviews, questions and answers session with the children. Children websites were chosen for evaluation as a proof of idea that linguistic expression work better for children. Websites are important to children as one of the media for education learning and entertainment; however, children websites in Malaysia seems to be limited. This chapter shades some results from a pilot study as the outcomes of using fuzzy computing with expression with Children. The evaluation focus on fonts styles on the children websites. In addition, it also describes a scenario of children websites development and advancement in Malaysia.