

# The Web

Its Utilisation, Evaluation  
and Security

Media Anugerah Ayu



IIUM PRESS  
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

**THE WEB:  
ITS UTILISATION, EVALUATION  
AND SECURITY**

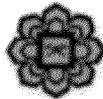
---

# **THE WEB: ITS UTILISATION, EVALUATION AND SECURITY**

---

**Editor**

Media Anugerah Ayu



**IIUM Press**

Published by:  
IIUM Press

International Islamic University Malaysia

First Edition, 2011  
©IIUM Press, IIUM

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without any prior written permission of the publisher.

Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Bibliography p.  
Includes Index  
ISBN

ISBN: 978-967-418-112-3

Member of Majlis Penerbitan Ilmiah Malaysia – MAPIM  
(Malaysian Scholarly Publishing Council)

Printed by :  
**IIUM PRINTING SDN. BHD.**  
No. 1, Jalan Industri Batu Caves 1/3  
Taman Perindustrian Batu Caves  
Batu Caves Centre Point  
68100 Batu Caves  
Selangor Darul Ehsan

# CONTENTS

---

<b>Preface</b> .....	v
<b>Acknowledgement</b> .....	vi
<b>1. eSurvia: A Web-based Survey Tool Using Fuzzy Conjoint Analysis</b> <i>Media Anugerah Ayu, Siti Aisyah Ismail, Abu Osman Md Tap</i> .....	1
<b>2. Hajj Pilgrims Tracking and Monitoring System</b> <i>Teddy Mantoro, Media Anugerah Ayu, Md. Akhtaruzzaman, Murni Mahmud</i> .....	11
<b>3. Online Student Attendance Monitoring System</b> <i>Murni Mahmud, Zatil Azyyati Mustapha</i> .....	23
<b>4. Web-based AHP System</b> <i>Media Anugerah Ayu, Fadwa Gamal Mohammed Al-Azab</i> .....	35
<b>5. A Guideline for Using Web-based AHP System</b> <i>Media Anugerah Ayu, Fadwa Gamal Mohammed Al-Azab</i> .....	49
<b>6. Al-Islam Hospital Human Resource System</b> <i>Muhd Rosydi bin Muhammad, Fatima Hasan Ali Munassar</i> .....	58
<b>7. Kulliyah of Information and Communication Technology (KICT) Postgraduate System</b> <i>Teddy Mantoro, Media Anugerah Ayu, Ahmad Haitham Bin Yusop</i> .....	71
<b>8. A Web for Supreme Judicial Institute Library in Yemen</b> <i>Media Anugerah Ayu, Abdulraoof Mohammed Al-Ghashm</i> .....	81
<b>9. Course Advisor System</b> <i>Abdul Rahman Ahlan, Nur Farhana Binti Ahmad</i> .....	91

<b>10. Children Educare Center System</b>	
<i>Murni Mahmud, Muhammad Firdaus B Abd Karim</i> .....	105
<b>11. Angkatan Belia Islam Malaysia (ABIM) Membership Management System</b>	
<i>Husnayati Hussin, Amila Norjihah bt Musa, Wan Nur Asma bt Wan Ahmad Puad</i> .....	119
<b>12. Intelligent Public Transport Guide System for Kuala Lumpur</b>	
<i>Media Anugerah Ayu, Mohd Faisal bin Jamil</i> .....	131
<b>13. E-Government Initiatives in Palestine</b>	
<i>Mohamed Elgharabawy, Media Anugerah Ayu</i> .....	141
<b>14. An Online Badminton Motion Tracking System</b>	
<i>Normaziah A. Aziz, M. Amar Odenan, Taufiq M. Khadafi</i> .....	149
<b>15. Web-based Application That Support Active Learning</b>	
<i>Jonathan Mamangkiang Mantikayan, Media Anugerah Ayu</i> .....	159
<b>16. The Use of SAS for Enterprise Data Management</b>	
<i>Mansur Aliyu, Murni Mahmud</i> .....	168
<b>17. Open Source Content Management Systems (CMS): Issues and Challenges</b>	
<i>Mohamed Elgharabawy, Media Anugerah Ayu</i> .....	180
<b>18. Web Application Development Process</b>	
<i>Adamu Ibrahim Abu Bakar, Teddy Mantoro</i> .....	189
<b>19. Multimedia Elements and Internet</b>	
<i>Maimona J. Badi, Akram M. Zeki</i> .....	198
<b>20. A Survey on Islamic Websites for Children</b>	
<i>Zaidoon Kh. Abdulatif, Mustafa Nasser Ayif, Murni Mahmud</i> .....	202
<b>21. Fuzzy Computing with Expressions for Evaluating Fonts Styles on Children Websites</b>	
<i>Murni Mahmud, Noorhazwani Raja Mohd, Abu Osman Md Tap</i> .....	211

<b>22. A Research Framework for User Centered Web Development</b> <i>Media Anugerah Ayu, Noor Azura Zakaria .....</i>	<b>219</b>
<b>23. A Framework for Heuristic Evaluation on Islamic Websites</b> <i>Murni Mahmud, Abu Osman Md Tap, Mansur Aliyu .....</i>	<b>226</b>
<b>24. Web Usability Survey Measurement</b> <i>Media Anugerah Ayu, Noor Azura Zakaria .....</i>	<b>234</b>
<b>25. Measuring Information Contents Quality of E-Services through Mobile Devices</b> <i>Ikhlas Zamzami, Murni Mahmud .....</i>	<b>240</b>
<b>26. Verification of Scholars and References in Islamic Websites</b> <i>Murni Mahmud, Rasheed Muhammed Nasser, Abu Osman Md Tap .....</i>	<b>250</b>
<b>27. Security of Multimedia in the Web</b> <i>Akram M. Zeki .....</i>	<b>257</b>
<b>28. Web Application - What Makes it Secure or Insecure?</b> <i>Normaziah A. Aziz, Nor Harisah Zainuddin.....</i>	<b>263</b>
<b>29. A Single Door to the Kulliyyah of Information and Communication Technology (KICT) Online Services</b> <i>Media Anugerah Ayu, Mohamed Elgharabawy, Mohammad Al-Mohaifer, Mamdooh Rameez .....</i>	<b>272</b>

## **7. KULLIYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY (KICT) POSTGRADUATE SYSTEM**

---

Teddy Mantoro, Media Anugerah Ayu, Ahmad Haitham Bin Yusop  
Intelligent Environment Research Group (INTEG), Kulliyah of Information  
and Communication Technology, International Islamic University Malaysia,  
Malaysia

### **ABSTRACT**

Kulliyah of Information and Communication Technology (KICT) Postgraduate System is a system built to facilitate the supervisor's supervision task in managing their records to be more effective and efficient through a web based system and replace the current manual process. The system will allow supervisors, Head of Department and Deputy Dean Postgraduate and Research to track research progress, student study status, produce summary report and also store related data during the research process. As for student, they can submit progress report and end of semester report online using this system. It is hoped that the existence of this system will help to ease all of the aforementioned processes in a more efficient way.

### **7.1 INTRODUCTION**

#### ***7.1.1 Problem Background***

Kulliyah of Information and Communication Technology (KICT) offers postgraduate study by research programs for students who intend to pursue higher level of study. In this program, students are required to do research on their preferred topics with the supervisions from instructors. At the initial