Selected Readings in COMPUTING AND TELECOMMUNICATIONS

Editors Mira Kartiwi Teddy Surya Gunawan Aisha Hassan Abdalla Hashim



IIUM Press
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

SELECTED READINGS IN COMPUTING AND TELECOMMUNICATIONS

Editors

Mira Kartiwi Teddy Surya Gunawan Aisha Hassan Abdalla Hashim



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

Mira Kartiwi, Teddy Surya Gunawan, Aisha Hassan Abdalla Hashim: Selected Readings in Computing and Telecommunications

ISBN: 978-967-0225-81-4

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

TABLE OF CONTENT

Pre	FACE X
	Manuscript Processes Monitoring System for Research nagement Center
Azn	an Zuhid bin Saidin, Mira Kartiwi and Husam bin Latih @ Abdullatif 1
2.	IIUM STUDENTS FORUM SYSTEM
Mira	a Kartiwi and Waleed Mohamed Ibrahim9
3.	SABA DECORATION FACTORY (SDF) SYSTEM
Mira	a Kartiwi and Abdulaziz Omar 17
4.	TAKAFUL AGENCY WEB PORTAL
Mira	a Kartiwi and Mohd. Hafiz Zairin bin Ayop 27
	HUMAN CAPITAL BUSINESS PARTNER INFORMATION TECHNOLOGY & WORK TECHNOLOGY MAN POWER MODEL
Akra	am M. Z. Khedher and Siti Sarah binti Abdul Halim 39
	DEVELOPMENT OF ENERGY ASSESSMENT TOOLS FOR SINGLE PHASE PLIANCES
Mu:	sse Mohamud Ahmed and Siti Nor Amiza bt Massere52
7.	FINGERPRINT AUTHENTICATION SYSTEM USING MATLAB
Ted	dy Surya Gunawan and Mohd. Hanis bin Jenalis66
_	PERFORMANCE EVALUATION OF LOSSLESS SPEECH AND AUDIO

9. Design and Implementation of Voice Security System in Matlab and Java	
Teddy Surya Gunawan and Siti Ruqayah bt. Mohd Akahsah 9)1
10. DESIGN AND DEVELOPMENT OF RFID SECURITY MODEL	
Ahmed Wathik Naji and Fatema-Tuz-Zohra	2
11. RADIO PROPAGATION MEASUREMENT AND CHANNEL MODELLING FOR WIRELESS BODY AREA NETWORK	
Mimi Aminah bt. Wan Nordin and Norsyaidatul Fairuz bt. Fauziz 12	25
12. FEATURE EXTRACTION FOR AUTOMATIC FETUS AGE ESTIMATION FOU ULTRASOUND IMAGES USING ELLIPSE MODEL	ıR
Teddy Surya Gunawan and Norakmal Abdullah 14	13
13. Noise Reduction Using Kalman Filter	
Teddy Surya Gunawan and Ismail Haji Hassan Dualeh 16	8
14. PARALLEL ALGORITHMS FOR EDGE DETECTION ON CLUSTER COMPUTER	
Teddy Surya Gunawan and Elkabir Ansoya Bacar 18	39
15. PREDICTION OF PROBABILITY OF BIT ERROR RATE IN DIGITAL COMMUNICATION SYSTEM	
Saad Osman Bashir, Abdallah Mohammed Tawfeeq Zyoud and Besir Salal Eldin Mahmoud Sid Ahmed	
16. COMPARATIVE ANALYSIS OF LOW POWER VLSI CIRCUITS TECHNIQUES	
Anis Nurashikin Nordin and Fatin Alea bt. Talib	9

17. SPHERICAL POV LED DISPLAY USING PIC 16F628
Teddy Surya Gunawan and Muhammad bin Ahmad 235
18. Implementation of Capacitance of Voltage Converter for Capacitive Transducers
A.H.M. Zahirul Alam and Nur Fadhila bt. Che Halim
19. Protein Coding Identification of Human DNA Sequence Using Wavelet
Teddy Surya Gunawan and Norashikin Abdul Wahab 274
20. OPTIMIZATION OF ZAKAT MANAGEMENT SYSTEM IN INDONESIA USING GEOGRAPHIC INFORMATION SYSTEM (GIS)
Muharman Lubis 292
21. IIUM CAR STICKER RECOGNITION USING PHASE BASED TEMPLATE MATCHING ALGORITHM
Teddy Surya Gunawan and Siti Aisyah bt. Mohamad 308

4. TAKAFUL AGENCY WEB PORTAL

Mira Kartiwi and Mohd. Hafiz Zairin bin Ayop

ABSTRACT

Takaful or also known as Islamic insurance has becomes so popular especially among the Muslim community. Basically. Takaful is one type of insurance, but what makes it different from other types of insurance is that it is more towards *shari'a* compliance. Takaful is very Islamic compare to other conventional insurance in every single part of it. Nowadays, many conventional finance and banking companies have started introducing and selling their own Takaful product. In Malaysia, there are numerous finance and banking firms that selling Takaful product, for examples, Takaful Nasional, Etiqa, Hong Leong Tokio Marine Takaful, Prudential, great Eastern, and much more. These giant firms realize that the Takaful industry has a bright future and it also has a strong huge target market in Malaysia.

4.1 INTRODUCTION

In order to deal with the process of marketing and selling Takaful product, the companies usually hire the middlemen who will act as the company representative while dealing with customers. The middlemen here can be referred as an agent. A Takaful agent has two main roles towards the companies, which are to introduce new customers to the company by selling company's Takaful product/package to them and to take care of the customers' needs in terms of their Takaful policy in order to make the customers happy which will prolong the relationship between the customers and the company. As a payback, the company will pay the agent in terms of commission, which will be paid based on the sales made, by the agent. Some well-known Takaful companies have huge number of agents. This