

# Data Management

## Issues, Challenges and Opportunities

Mira Kartiwi  
Akram M. Zeki



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

# **DATA MANAGEMENT: ISSUES, CHALLENGES AND OPPORTUNITIES**

---

## **Editors**

Mira Kartiwi  
Akram M. Zeki



**IIUM Press**

**DATA MANAGEMENT: ISSUES, CHALLENGES AND  
OPPORTUNITIES**

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: 978-967-418-084-3

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

## TABLE OF CONTENT

---

1. DATA QUALITY ASSESSMENT ON INTERNAL SYSTEM IN XYZ DIVISION OF TELECOMMUNICATION COMPANY: A CASE STUDY IN INDONESIA Muharman and Mira Kartiwi .....	1
2. DATA MANAGEMENT ISSUES: A CASE STUDY OF IIUM DIGITAL LIBRARY Alfi Khairiansyah Machfud, Jawdat Ahmad Khatib, Khodashev Aslanbeck and Mira Kartiwi.....	15
3. DATA MANAGEMENT CHALLENGES IN BANKING INDUSTRY: BUSINESS PERSPECTIVE Adebiyi Lookman Ademola and Mira Kartiwi.....	29
4. DATA MANAGEMENT IN HIGHER EDUCATION, THE CHALLENGES AND THE SOLUTIONS: RECOMMENDATION AND TOOLS Johara Ghazali and Mira Kartiwi.....	35
5. DATA QUALITY MATURITY IN INFORMATION TECHNOLOGY DIVISION (ITD): AN EDUCATION ORGANIZATION Muhammad Rabiul Hasan and Mira Kartiwi.....	43
6. DATA STEWARDSHIP: A CASE STUDY OF CENTRE OF LANGUAGE AND PRE-UNIVERSITY ACÀDEMIC DEVELOPMENT (CELPAD) Ismail Mahmud, Kairo, Johara Ghazali, Rifhan bt. Abdul Ghafir and Mira Kartiwi .....	57
7. THE CHALLENGES OF DATA MIGRATION CASE STUDY OF UNIVERSITY PUTRA MALAYSIA (UPM) Hanan Abdullah A. Fatani, Ikhlas Fuad Zanzami, Nuha Abdullah H. Zammarah and Mira Kartiwi.....	69

16. DATA MANAGEMENT CHALLENGES IN RETAIL INDUSTRY Fauzan Alfariti and Mira Kartiwi .....	151
17. TROPICAL CROPS PLANTING RECOMMENDATION SYSTEM Siti Safura Yasmin Sahibin and Akram M. Zeki .....	157
18. EMPLOYING MACHINE LEARNING ALGORITHMS TO EXTRACT ISLAMIC KNOWLEDGE Kawther A. Aldhlan, Ahmed M. Zeki and Akram M. Zeki .....	161
19. A WEB DATA MANAGEMENT APPLICATION FOR EDUCATION SECTOR: A KICT ONLINE REGISTRATION SYSTEMS FOR FINAL YEAR PROJECT Muhamet Abdullahu and Mira Kartiwi.....	169
20. LOGISTIC DATABASE SYSTEM Akram M. Zeki and Wan Zarith Nadia bt. Wan Zahari .....	177
21. DATA OWNERSHIP CHALLENGES IN DISASTER MANAGEMENT Mira Kartiwi, Rasheed Muhammed and Muna A. Ali.....	185

## **20. LOGISTIC DATABASE SYSTEM**

---

Akram M. Zeki and Wan Zarith Nadia bt. Wan Zahari

### **ABSTRACT**

Logistics Database System is a study, which discusses the developing of a system to assist customers in booking transportation with us based on their specific requirement. It also assists the customers in keeping track of the orders and ensures the timely fulfilment of their orders. This study describes the features and procedures that were followed while developing the system. This study explains the development process, the primary requirement, as well as various features and functionalities of the project and the procedures followed in achieving these objectives.

### **20.1 INTRODUCTION**

As a cold transit service, companies need to monitor the delivery information, which includes the customer's data, Lorries and their plate numbers, drivers and the destinations of the Lorries. In order to improve efficiency there is a need to develop a computer based database system that is more systematic and highly secure. Therefore, it would be easier for the company to find any information required and to keep track of all the company's transiting process daily. The reason for developing this system is because customers normally need to go to the company to order for delivery transportation which is sometimes hectic, The databases are not manageable and properly arranged. The request that have been done by the customer might be mix up or accidentally changed and make a conflict involved. Lastly, there are possibilities of the data to be destroyed or lost by natural disasters.