

# Data Management

## Issues, Challenges and Opportunities

Mira Kartiwi  
Akram M. Zeki



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

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

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## **Editors**

Mira Kartiwi  
Akram M. Zeki



**IIUM Press**

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## **10. AN IMPLEMENTATION OF NATURAL LANGUAGE PROCESSING ON ONTOLOGY-BASED ELECTRONIC HEALTH WEBSITE: A CASE OF FEMALE-RELATED DISEASES DOMAIN**

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Dini Handayani, Mira Kartiwi, Seung Hwan Kang and Sandra Hakiem

### **ABSTRACT**

The advent of Internet has changed the way people live and search for information. Study showed that browsing on health information is amongst popular activities on the Internet, particularly among women. Despite a wide range of information one could gathered from the Internet, no website provides facility for the user to query the information using a natural language. It is the aim of this research to develop a prototype that allows individuals to query information from the web using natural language processing.

### **10.1 INTRODUCTION**

In early 2006, Cervical Cancer Organization (CCO, 2006) reported that female-related diseases, particularly cervical cancer, have been renowned as one of the most common cause of women mortality in less developed countries. Such distressing phenomenon mainly had been attributed to, among others, lack of awareness of both preventive actions and symptoms of cervical cancer (CCO, 2006). The advent of Internet has changed the way people live and search for information. According to Nielsen survey in 2009 (Nielsen), browsing on health information is amongst popular activities on the Internet. Indeed in US, a recent research (Atkinson & Piels,