Data Management

Issues, Challenges and Opportunities

Mira Kartiwi Akram M. Zeki



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DATA MANAGEMENT: ISSUES, CHALLENGES AND OPPORTUNITIES

Editors

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21. DATA OWNERSHIP CHALLENGES IN DISASTER MANAGEMENT

Mira Kartiwi, Rasheed Muhammed Nassr and Muna A. Ali

ABSTRACT

An abundant of literature highlight the importance of communication and coordination during catastrophe situation. In this paper, the authors attempt to theoretically evaluate the implementation of mobile services, such as network-based tracking service and location-based query, in the coordination of emergency response management. It is expected that the implementation of such technologies will make delivering and accessing information in real-time and will support rescue personnel in the field to coordinate and response effectively.

21.1 INTRODUCTION

Today, mobile applications become necessity tool in ones daily life (Ratti, et. al., 2006; Ilarri, et. al., 2010). The computing environment had evolved to reflect the mobile and wireless nature of the new business where people rely less on fixed wired computers to communicate and access information they need while roaming (Ratti, et. al., 2006). For example, social networking portals allow users to update their status and pages through mobile phones.

The use of mobile application has also make a significant impact on emergency response management domain. Wireless communication and application had strong potential to be used in many aspects of the emergency response management. Such technology can play a critical role to support communication and coordination among participated parties that is crucial element in the emergency response management [3-5]. Despite potential use of wireless communication on disaster management domain.