

Notice of the Final Oral Examination for the Degree of Master of Science

of

ERNEST AARON

BSc (Universiti Tenaga Nasional, 2011)

"AppXimity: A Context-A ware Mobile Application Management Framework"

Department of Computer Science

Monday, March 20, 2017 10:30 A.M. Engineering and Computer Science Building Room 468

Supervisory Committee:

Dr. Hausi A. Müller, Department of Computer Science, University of Victoria (Supervisor) Dr. Issa Traore, Department of Electrical and Computer Engineering, UVic (Outside Member)

External Examiner:

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Dr. Lincoln Shlensky, Department of English, UVic

Dr. David Capson, Dean, Faculty of Graduate Studies

Abstract

The Internet of Things is an emerging technology where everyday devices with sensing and actuating capabilities are connected to the Internet and seamlessly communicate with other devices over the network. The proliferation of mobile devices enables access to unprecedented levels of rich information sources. Mobile app creators can leverage this information to create personalized mobile applications. The amount of available mobile apps available for download will increase over time, and thus, accessing and managing apps can become cumbersome. This thesis presents AppXimity, a mobile-app-management that provides personalized app suggestions and recommendations by leveraging user preferences and contextual information to provide relevant apps in a given context. Suggested apps represent a subset of the installed apps that match nearby businesses or have been identified by AppXimity as apps of interest to the user, and recommended apps are those apps that are not installed on the user's device, but may be of interest to the user, in that location.