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IEEE Okanagan Subsection Presents

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Towards a Secure Anti-Malware Framework for Smartphones

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Location: EME 1151, UBC, Okanagan Campus, Kelowna, BC

Talk Abstract: Smartphones have become an integral part of our daily life. They offer much more functionalities than their traditional counterparts. As a result, many businesses now offer services through smartphones. Users also store sensitive personal information on their devices and perform financial transactions. Consequently, security attacks through sophisticated malware in different smart platforms have also increased significantly. Therefore, we must protect our devices against the rising threat of mobile malware.

In this talk, we present various risks of using smartphones in different contexts. Then, a secure and generic anti-malware framework is demonstrated. The framework consists of a number of components to report, monitor and control malware. The core idea of the framework resembles a smart city. The operating system will act as the government of the city and the applications will be the citizens. It has components to perform policing and provide security of the applications and shared resources. The goal is to design a framework that hinders malware propagation, withstands exploitation, and protects sensitive information.

Speaker Biography: **Md Shahrear Iqbal** is a Ph.D. candidate in the School of Computing, Queen's University, Canada, where he is a member of the Queen's Reliable Software Technology (QRST) research group. He also holds a faculty position in the Department of Computer Science and Engineering (CSE) in Bangladesh University of Engineering and Technology (BUET), Bangladesh. He is currently doing research on the security of smart devices. He is also interested in future internet and cyber-security of smart cities. He obtained his Bachelor's and Master's degree in CSE from BUET. More information about his research and publications can be found at <http://www.cs.queensu.ca/~iqbal>.

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