Keynote I

How App Stores Are Revolutionizing Software Practice!

Ahmed E. Hassan
Canada Research Chair (CRC) in Software Analytics
NSERC/BlackBerry Software Engineering Chair at the School of Computing at Queen’s University, Canada.

Abstract
For over half a decade, we have actively mined and monitored the evolution of the world's top mobile applications (apps). These apps are offered through centralized app stores that are truly challenging how we create, market, distribute, and evolve software. Estimates peg the global app market to surpass $101 Billion by 2020. In 2016, Vision Mobile estimates that over 40% of professional developers are involved in mobile app development in 2016.

In this talk, I summarize our key findings about some of the unique challenges and research opportunities that such apps and stores bring to app developers and software engineering researchers worldwide. For instance, I will discuss examples of code reuse across apps, and the impact of component based development on app quality and the update practices of app developers.

Speaker’s Bio
Ahmed E. Hassan is the Canada Research Chair (CRC) in Software Analytics, and the NSERC/BlackBerry Software Engineering Chair at the School of Computing at Queen’s University, Canada. His research interests include mining software repositories, empirical software engineering, load testing, and log mining.

Hassan received a PhD in Computer Science from the University of Waterloo. He spearheaded the creation of the Mining Software Repositories (MSR) conference and its research community. Hassan also serves on the editorial boards of IEEE Transactions on Software Engineering, Springer Journal of Empirical Software Engineering, Springer Journal of Computing, and PeerJ Computer Science. Contact him at ahmed@cs.queensu.ca. More information at: http://sail.cs.queensu.ca/