Tutorials

Tutorial 1: Mobile Applications

Dr. Adel Khelifi, Dean of Research and Graduate Studies, ALHOSN University, UAE.
Monday, April 15. 14:50 – 15:50.

These days, applications are going increasingly mobile. Software are no longer limited to mainframe, desktops and laptops but instead they are more developed for mobile devices. Android applications capture majority share of international Smartphone Market. According to John Koetsier “Of those 700 million-plus smartphones, 68.4% smartphones ran Android as the operating system, while only 19.4 percent ran iOS, Apple’s mobile operating system”.

This tutorial teaches students how to build mobile apps for Android and how to deploy them in their handheld devices. Students learn how to write native apps for Android using Eclipse and the Android SDK.


Prof. Dr. Habib Hamam, Université de Moncton, Canada.
Tuesday, April 16. 15:00 – 16:00.

Background knowledge expected of the participants

No background knowledge is required of the participants as a primer on RFID technology will be presented in the tutorial.

A presentation of RFID: Radio frequency identification (RFID) has been considered as “one of the most pervasive computing technologies in history” (Roberts, 2006 p. 56). However, RFID concept is not new. It is a wireless Automatic Identification and Data Capture (AIDC) that uses radio waves to identify “tagged” product without human intervention. RFID adoption is moving from niches applications such as antitheft systems, luggage tracking systems in airports, electronic toll collection systems (Smith and Konsynki, 2003), mobile commerce (Fosso Wamba et al., 2007) to more broader applications such as warehouse and supply chain optimization (Lefebvre et al., 2006).

Objectives

The main objective of the tutorial is to introduce RFID and present typical applications, its limitations and future trends. Moreover, we are going to discuss some challenges and problems which can arise during a RFID technology implementation.