

Seminar: Context-aware and personalized Internet of Things by Prof. Mohamed Ibnkahla

Oct 09, 2018

Thursday, 18 October at 10:00 am, Conference Hall, -1 Floor, Block B

The Internet of Things (IoT) is expected to connect billions of objects and devices through global dynamic information exchange leading to diverse applications and services which will result in major cost savings, new revenues, and employee productivity enhancements. However, real-world deployment and operation of IoT systems is very challenging mainly because of the enormous amounts of generated data, user requirements and behavior, and heterogeneity of IoT technologies.

This talk will address these challenges and will focus on context-aware and user-centric design of IoT systems. Context awareness is important in order to enhance user experience and optimize IoT resources (including energy consumption, bandwidth, computing and data analytics tools) as well as to enable scalability and ensure system security.

The talk will present state-of-the-art strategies for building context-aware and user-centric IoT architectures that are sustainable and capable of self-organization and reconfiguration. In particular, the talk will discuss machine learning and artificial intelligence tools as enablers for environment awareness.

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