

**Petra University**  
(Private Accredited University)



جامعة البتراء  
(جامعة خاصة معتمدة)

Faculty of Information Technology

كلية تكنولوجيا المعلومات

The Faculty of Information Technology, University of Petra, and the Committee for Scientific Research and Qualifications Enhancement at the FIT, have the pleasure to invite you to the Seminar:

## **“Data-Flow Management for LBS (Location-Based Services) Applications Using the Zoning Concept”**

By  
Dr Suleiman Almasri, FIT

**Wednesday 16 of December 2009, 13:00-14:30**  
**( UOP-Library Seminar Room)**

As mobile devices are available to almost everyone, the services and equipment utilised within these small devices are improving with each new generation of mobile network technologies. Today’s mobile devices offer different methods and protocols for exchanging data among their users. A famous example of such methods that support users’ communication needs is the technology named: Location-Based Services (LBS).

LBS users also wish to receive multimedia information regarding their surrounding area, such as high quality pictures and videos. Hence, a larger amount of data is transferred from the server to the client. However, due to the constraints of wireless network bandwidth, mobile device limited storage, and short battery lifetime, slow data transmission rates within the system inhibit the efficiency of LBS.

Therefore, in the seminar I will present a solution for the large data-size problem based on better managing the data-flow from the server to the client. The outcome of this research work was the design of a new data transfer procedure named Zone-Based Update Mechanism.

This new mechanism has been achieved through two phases, the first of which was designing the Static Mechanism, which is basically based on streaming fixed size of data to the end users, and the second of which is another approach designed to overcome the shortcomings resulting from this mechanism. This has been named Dynamic Zone-based Update Mechanism, as it is based on streaming data in different volumes according to the end user’s device available resources.

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## Program

**Reception (12:45-13:00)**

**Welcome & Opening Note (13:00-13:05)**

**The Presentation (13:05-13:55)**

**“Data-Flow Management for LBS Applications Using the Zoning Concept”**

*(Dr Suleiman Almasri, Faculty of Information technology, Petra University)*

**Discussion & Recommendations (13:55-14:20)**

**Invitation to Coffee & Tea Break and end of the Seminar (14:20)**