



LAU
School of Engineering

THE SCHOOL OF ENGINEERING

Cordially Invites You To Attend The Seminar Entitled:

“SemIndex: Semantic-Aware Inverted Index”

Presented By:
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Engineering Auditorium (Zakhem 406)

Wednesday, October 01, 2014

At 3:30 - 4:30 PM

ABSTRACT

Full-text search techniques originally developed in Information Retrieval (IR) systems and more recently imbedded in Database (DB) systems, aim at providing the most relevant documents (tuples in a DB) to a user query consisting typically of a set of keywords. This talk focuses on the problem of semantic-aware keyword search in textual DBs. The problem has emerged as a required extension of the standard containment keyword-based query to meet user needs in textual DBs and IR applications. We provide here a new approach, called SemIndex, that extends the standard inverted index by constructing a tight coupling inverted index graph that combines two main resources: a general purpose semantic network, and a standard inverted index on a collection of textual data. We also provide an extended query model and related processing algorithms with the help of SemIndex. To investigate its efficiency, we set up experiments to test the performance of SemIndex. Preliminary results are satisfactory and promising.

All Are Welcome