

## COMPUTER SCIENCE SEMINAR SERIES

Department of Computer Science  
City University of Hong Kong  
(Departmental Seminar Seminar 2006/2007 - No 49)

### Knowledge Extraction from Question/Answer Pairs

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**Date :**

3 May 2007 (Thursday)

**Time :**

4:30pm-5:00pm

**Venue :**

CS Seminar Room, Rm Y6405, 6th Floor Yellow Zone, Academic Building, City University of Hong Kong, Tat Chee Avenue, Kowloon Tong.

#### Abstract

Extracting knowledge from plenty of unstructured text is a very complex task and the result is not satisfying. In this paper, we do knowledge extraction from Question-Answer pairs by using handy online QA system. Semantic pattern is used to facilitate question analysis and it plays the role of annotation about sentence elements. The knowledge extraction process contains two steps. The first step is question and answer analysis. Through semantic pattern based analysis the sentence elements of question are obtained, such as main concepts, question target, constraints and so on. The second step is about answer elicitation. The question elements are organized sequentially and the sequence can be adjusted according to vector similarity. Matching the answer with sequential question elements, the target answer is obtained. Finally, a structured information unit is acquired, which can be used to be inserted into knowledge base. The medicine domain and open domain are used for experiments.

Supervisor: Dr Wenyin Liu (CS)  
Research Interest: Knowledge extraction

**All are welcome!**

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*In case of questions, please contact Dr Wenyin Liu at Tel: 27844730, E-mail: [csliuwy@cityu.edu.hk](mailto:csliuwy@cityu.edu.hk), or visit the CS Departmental Seminar Web at <http://www.cs.cityu.edu.hk/>.*