



COMPUTER SCIENCE SEMINAR SERIES

Department of Computer Science
City University of Hong Kong

OrdPathX: Supporting Two Dimensions of Node Insertion in XML Data

Mr CAI Jing
MPhil Student
Department of Computer Science
City University of Hong Kong

Date :

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Time :

1:30pm - 2:00pm

Venue

Room G5-128, 5th Floor, Green Zone, Academic Building, City University of Hong Kong,
Tat Chee Avenue, Kowloon Tong

Abstract

XML is nowadays a standard language for information representation and representation over the Internet. In this talk, we introduce a novel XML labeling scheme called OrdPathX which supports both leaf and internal node insertions for XML data.

Dynamic XML labeling has been studied for years. However almost all labeling schemes allow only leaf node insertions. Inspired by the caret-in technique of OrdPath, we propose a new labeling algorithm which supports internal node insertions gracefully without relabeling. We will describe the labeling algorithm and the associated operations for various inter-node relationships determination. Experimental results show that OrdPathX can handle internal node insertions efficiently.

This paper was presented in the 20th International Conference on Database and Expert Systems Applications (DEXA'09), Linz, Austria, August 31 - September 4, 2009.

Supervisor: Dr C K Poon
Research Interest: XML Processing, Database

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All are welcome!

In case of questions, please contact Dr C K Poon at Tel: 2788 7157, E-mail: csckpoon@cityu.edu.hk, or visit the CS Departmental Seminar Web at <http://www.cs.cityu.edu.hk/>.

