

COMPUTER SCIENCE COLLOQUIUM

Department of Computer Science
City University of Hong Kong
and
Hong Kong Web Society

Jointly present a colloquium on

Activity Mining: Exceptional Behaviour Analysis

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Date :

21 November 2007 (Wednesday)

Time :

3:00pm - 4:00pm (Refreshment will be served at 2:45pm)

Venue

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

Abstract

Many activities under certain social contexts can have significant business and social impacts. For instance, large amounts of fraudulent activities in social security program may result in huge government customer debt. Given huge volumes of unbalanced activity transactions, activity mining is devised to discover impact-targeted activity patterns. This seminar will discuss the methodologies and challenges of activity mining and its applications in the domain of social security. Moreover, using the governmental social security datasets as an example, Prof. Zhang will illustrate the issues and the solutions in mining high impact activities from rare, dispersed and imbalanced data set through exceptional behaviour analysis.

Biography

Chengqi Zhang is currently a Visiting Professor in Department of Information Systems at City University of Hong Kong. He has been a Research Professor of Information Technology in Faculty of Information Technology at University of Technology, Sydney (UTS) since 2001. He received a Bachelor Degree from Fudan University and Master Degree from Jilin University, China. He also received a PhD degree from the University of Queensland, and a Doctor of Science (higher doctorate) degree from Deakin University, Australia, all in Computer Science. His research interests include Data Mining and Multi-Agent Systems. He has published more than 100 refereed papers and three monographs, including a dozen of high quality papers in renowned international journals, such as, Artificial Intelligence, Information Systems and IEEE/ACM Transactions. He has been invited to deliver seven keynote speeches in last four years. So far, he has supervised 16 PhD students in these areas successfully. He has been elected as the Chairman of Australian Computer Society National Committee for Artificial Intelligence in November 2005. He has also been elected as the Chairman of the Steering Committee of KSEM (International Conference on Knowledge Science, Engineering, and Management) in August 2006, a member of Steering Committee of PRICAI (Pacific Rim International Conference on Artificial Intelligence) and PAKDD (Pacific-Asia Conference on Knowledge Discovery and Data Mining). He has been serving as an Associate Editors for three international journals, including IEEE Transactions on Knowledge and Data Engineering, served as General Chair, PC Chair, or Organising Chair for four international Conferences and a member of Program Committees for many international or national conferences. He is a Senior Member of the IEEE Computer Society (IEEE). His personal web page is at <http://www-staff.it.uts.edu.au/~chengqi/>.

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*In case of questions, please contact Prof Qing Li at Tel: 2788 9695, E-mail: itqli@cityu.edu.hk,
or visit the CS Departmental Seminar Web at <http://www.cs.cityu.edu.hk/>.*