

COMPUTER SCIENCE COLLOQUIUM

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

Data Mining: Artificial Intelligence in Data Analysis

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Date :

4 January 2006 (Wednesday)

Time :

3:00pm - 4:00pm (Refreshments 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

Data mining is a fast-growing area. The first Knowledge Discovery in Databases Workshop was held in August 1989, in conjunction with the 1989 International Joint Conference on Artificial Intelligence, and this workshop series became the International Conference on Knowledge Discovery and Data Mining (KDD) in 1995. There are various data mining conferences nowadays, and among them, KDD and ICDM (the IEEE International Conference on Data Mining) are arguably (or unarguably) the two premier ones in the field. ICDM was established in 2000, sponsored by the IEEE Computer Society, and had its first annual meeting in 2001.

This talk will review the topics of interest from ICDM from an AI perspective, and analyze common topics in data mining and AI, including key AI ideas that have been used in both data mining and machine learning. We will also discuss two current research projects on (1) identifying deception data with impact-sensitive instance ranking, and (2) user-centered agents for biological information exploration on the Web. Both projects apply data mining techniques for intelligent data analysis.

Biography

Xindong Wu is a Professor and the Chair of the Department of Computer Science at the University of Vermont. He holds a PhD in Artificial Intelligence from the University of Edinburgh, Britain. His research interests include data mining, knowledge-based systems, and Web information exploration. He has published extensively in these areas in various journals and conferences, including IEEE TKDE, TPAMI, ACM TOIS, IJCAI, AAI, ICML, KDD, ICDM, and WWW, as well as 12 books and conference proceedings. Dr. Wu is the Editor-in-Chief of the IEEE Transactions on Knowledge and Data Engineering (by the IEEE Computer Society), the founder and current Steering Committee Chair of the IEEE International Conference on Data Mining (ICDM), an Honorary Editor-in-Chief of Knowledge and Information Systems (by Springer), and a Series Editor of the Springer Book Series on Advanced Information and Knowledge Processing (AI&KP). He is the 2004 ACM SIGKDD Service Award winner.

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