Program

Speaker: Dr Dennis K.J. Lin, University Distinguished Professor, Penn State University, USA

Date: 14 March 2008 (Friday)

Time: 9.00 am – 5.00 pm

9:00 am to 10:15 am  e-Business and Data Mining
10:30 am to 11:45 pm  RFID & Process Mining
2:15 pm to 3:30 pm  Classification and Support Vector Machine
3:45 pm to 5:00 pm  Research Potentials in Data Mining

Venue: E5 03-20, Faculty of Engineering, NUS
(pls see http://www.street-directory.com/nus/campus2.cgi?x=683&y=911&level=2 for the location)

Abstract

Statistical data mining is the exploration and analysis of large data set by automatic or semiautomatic means with the purpose of discovering meaningful patterns. The patterns or rules are then used for decision making via a process known as knowledge discovery. Much of exploratory data analysis and influential statistics concerns the same problems. The chief distinction between statistical data mining and the exploratory data analysis resides in the size and dimensionality of the data set involved. Data mining in general deals with much more massive data sets for which highly interactive analysis is not fully feasible. In this workshop, I will discuss the scales of data set sizes and the limits of feasibility and attempt to address some research problems in this area. For each subject, the problem will be introduced and future research potentials will be suggested. Two specific topics will be discussed in details: "Classification and Support Vector Machine" as well as "RFID and Process Mining."

About the Speaker

Dr. Dennis Lin is a University Distinguished Professor of Supply Chain and Statistics at Penn State University. His research interests are quality engineering, industrial statistics, data mining and response surface. He has published over 100 papers in a wide variety of journals. He currently serves as editor for Applied Stochastic Models for Business and Industry, and associate editor for various journals: Technometrics, Statistica Sinica, Journal of Quality Technology, Journal of Data Science, Quality Technology & Quality Management, Journal of Statistical Theory and Practice, Journal of Statistical Theory and Practice, and Taiwan Outlook. He has chaired the Membership Committee as well as SPES for American Statistical Association. Dr. Lin is an elected fellow of ASA and ASQ, an elected member of ISI, a lifetime member of ICSA, a fellow of RSS, and has received the Most Outstanding Presentation Award from SPES, ASA. He is an honorary chair professor for various universities, including National Chengchi University (Taiwan), Fudan University, Remin University of China (Chang-Jiang Scholar) and XiAn Statistical Institute (China). He is also the recipient of the 2004 Faculty Scholar Medal Award at Penn State University.

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