

# SPRING 2008 IS DISTINGUISHED LECTURE

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Lecture Hall VIII—ITE BUILDING

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## Research Challenges in Data Mining

### ABSTRACT

Research in data mining has led to advanced knowledge discovery technologies and applications. In this talk, we will discuss some emerging research issues for advanced technologies and applications in data mining and discuss some recent progress in this direction, including (1) exploration of the power of pattern mining, (2) analysis of multidimensional, heterogeneous and evolving information network, (3) mining of fast changing data streams, (4) mining of moving object data, RFID data, and data from sensor networks, (5) spatiotemporal and multimedia data mining, (6) biological data mining, (7) text and Web mining, (8) data mining for software engineering and computer system analysis, and (9) data cube-oriented multidimensional online analytical analysis.

### Short bio:

Jiawei Han, Professor, Department of Computer Science, University of Illinois at Urbana-Champaign. He has been working on research into data mining, data warehousing, database systems, data mining from spatiotemporal data, multimedia data, stream and RFID data, social network data, and biological data, with over 350 journal and conference publications. He has chaired or served in over 100 program committees of international conferences and workshops, including PC co-chair of 2005 (IEEE) International Conference on Data Mining (ICDM), Americas Coordinator of 2006 International Conference on Very Large Data Bases (VLDB), and senior PC member for 2008 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining.

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