# CS 395T Mining an Monitoring Databases

## Seminar Schedule

The papers without any margin notes appear in chronological order in the second packet. Those that are noted as missing will be handed out in class.

October 22a, Qui - **Introduction to Knowledge Discovery and Data Mining**

U.M. Fayyad, G. Piatetsky-Shapiro. “From Data Mining to Knowledge Discorvery:: An overview”. In Advances in Knowledge Discovery and Data Mining, pages 1--34. MIT Press, 1999.

J.R. Quinlan, Induction of Decision Trees, Machine Learning, 1:81-106, 1996

Yoon, Jong P. and Kerschberg, Larry “A Framework for Knowledge Discovery and Evolution in Databases”, ISSE George Mason Univ Tech Report ISSE-TR-93-109.ps

October 22b, Papadopoulos - **Heterogeneous Database Integration (Intro.)**

Sheth, Amit P. and Larson, James A., Federated database systems for managing distributed, heterogeneous, and autonomous databases, ACM Comput. Surv. 22, 3 (Sept. 1990), 183-236.

Octover 29a Yang - **Deductive Databases (Intro.)** Top-Down vs. Bottom-Up, Magic Sets

A survey of Research on Deductive Database Systems, by R. Ramakrishnan, J. Ullman. appeared in J. Logic Programming. May 1995.

In first packet — F. Bancihon and R. Ramakrishnan, “An Amateur’s Guide to Recursive Query Processing Strategies”, Proc. Int. Conf on the Management of Data, (SIGMOD), pp. 16-52, 1996

Octover 29b Wang - **Mining Association Rules**

Missing — T.Imielinski R.Agrawal and A.Swami. Database mining: A performance perspective. IEEE Trans. on Knowledge and Data Eng., 5-6:913-925, Dec. 1993.

R. Agrawal, T. Imielinkski, A. Swami, Mining Association Rules between Sets of Items in Large Datahases SIGMOD-93

Nov. 5a Papadopoulos - **Heterogeneous Databases (Part 2: The SIMS Project)**

Y. Arens, C.A. Knoblock and W-M Shen, “Query Reformulation for Dynamic Information Integration” only know it was published by Kluwer

## Nov. 5b Barbancon - **Intro. to Active Databases**

In first packet — D.R.McCarthy and U.Dayal. The Architecture of an Active Data Base Management System. In Proceedings of the 1989 ACM SIGMOD International Conference on the Management of Data, pages 215-224, June 1989.

In first packet — M.Stonebraker. The integration of rule systems and database systems. IEEE Trans. on Knowledge and Data Eng., 4-5:415-423, Oct. 1992.

Eric N. Hanson,Jennifer Widom An Overview of Production Rules in Database Systems" University of Florida , IBM Almaden Research Center , U of Florida CIS tr92-031

## Nov. 12a Qui - **(Problems in) Biological Databases**

S. B. Davidson, A. S. Kosky and B. Eckman, Facilitating Transformations in a Human Genome Project Database, In Proceedings of CIKM, Gaithersburg, MD, December 1994.

## Nov. 12b Wang - **Autonomous Agents**

Missing — Maes, Pattie, "Agent that reduce work and info overload", Comm. ACM 37,7, pp30-40, 1994

Missing — Finin, Tim, "KQML as an agent communication language", in "software agents", MIT Press, 1995

Missing — Yoav Shoham, "Agent-oriented Programming", AI, 60, pp51-92, 1993

## Nov. 19a Moundan - **Object-Oriented Query Processing**

Georges Gardarin, F. Sha, Zhao-Hui Tang, Calibrating the Query Optimizer Cost Model of IRO-DB, an Object-Oriented Federated Database System. VLDB-96 378-389,

Georges Gardarin, Jean-Robert Gruser, Zhao-Hui Tang, Cost-based Selection of Path Expression Processing Algorithms in Object-Oriented Databases. VLDB-96 390-401,

## Nov. 19b He - **Parallel Query Processing**

G.Fecteau. Database 2 aix6000, parallel technology. unpublished manuscript describing parallel DB2.

X. Zhao, R.G. Johnson, N.J. Martin, DBJ - A Dynamic Balancing Hash Join Algortithm in Multiprocessor Database Systems.

## Nov. 26a Yang - **Deductive Database Systems (Part 2 - Experimental Systems**

In first packet — Chimenti, D. et.al., "The LDL System Prototype", Tech-Report MCC, ACT-ST-342-89, 1989,

R. Ramakrishnan et.al, "Implementation of the CORAL Deductive Database System" SIGMOD093

## Nov. 26b He- **More Mining**

R. Srkant and R. Agrawal "Mining Sequential Patterns: Generalizations and Performance Inprovements" Source Unknown.

## Dec 3a Barbacon - **TBD**

## Dec 3b Moudan - **Real-Time Databases**

B. Kao and H. Garcia-Molina, An Overview of Real-Time Database Systems, http://www-db.stanford.edu/strip.html

D. Hong, S Chakravarthy, T. Johnson, Locking Based Concurrency Control for Integrated Real Time http://www.eng.uci.edu/ece/rtdb/rtdb96.html#program