

CIS611 – Spring 2010
Technical Topics (Papers & Tutorials)

Papers are available on Scientific Literature Digital Libraries (CiteSeer) <http://citeseer.ist.psu.edu/> and/or various digital libraries accessible from OhioLink <http://www.ohiolink.edu/>

Schedule

Monday	Wednesday
April 19 Matos – LINQ to SQL	April 21 Ethan Katz – (6.1) Spatial Data Management William Caine – (17) Hibernate
April 26 Warit Santaputra – (5.2) TANE Discovering FDs Roshni Patel & Vihang Deota – (7.1) The Google File System	April 28 Mark St. John – (7.2) Bigtable Todd Bailey – (13) Starburst
May 3 Adrian Acierno – (11) Versant P. Perichela & A. Pai – (9) Objectivity	May 5 R. Pederla & R. Potluri – (10) Objectstore Jon Huner – (4) DB4O
May 10 Michael McAndrew – (13) PHP Databases Michael Folk – (16) JBoss & JCache S. Lakkaraju & Raja Mamidala – (6.2) Google Maps API	May12 Bhavesht Makwana – (7.3) MapReduce Neha Agarwal – (14) XML Temporal Database Jon Durda - Concept Base

Topic	Presenters
1 CACHE – Intersys Object Database (Tutorial). http://www.intersystems.com/	
2 ConceptBase Object-Oriented DBMS (Tutorial) http://conceptbase.sourceforge.net/	
3 Datalog : Deductive Database (Tutorial) http://www.fdi.ucm.es/profesor/fernan/des/	
4 DB4O : An Object Oriented DBMS (Tutorial – 3parts) http://developer.db4o.com/ (Basic Platform, Replication Services, Android Mobile Applications)	Jonathan Huner
5 Functional Dependencies (Papers) <ol style="list-style-type: none"> 1. Efficient Discovery of Functional Dependencies and Armstrong Relations, by Lopes, S, et al. http://www.springerlink.com/content/pl2gmbjblcxx4mdg/ 2. TANE: An Efficient Algorithm for Discovering Functional and Approximate Dependencies, by Huhtala, Y., et al. http://comjnl.oxfordjournals.org/cgi/reprint/42/2/100 	5.1 5.2 Warit Santaputra
6 Spatial Data Management (Chapter & Tutorial) <ol style="list-style-type: none"> 1. Chapter 28 - <i>Database Management Systems, 3rd Edition</i>, by R. Ramakrishnan and J. Gehrke, Ed McGraw-Hill, 2003 2. Google Maps API Concepts (Tutorial) http://code.google.com/apis/maps/documentation/index.html 	6.1 Ethan Katz 6.2 Sanjeev K Lakkaraju & Raja Sharan Mamidala

7	Distributed Data Management (Papers) <ol style="list-style-type: none"> 1. The Google File System, by Sanjay Ghemawat, Howard Gobioff, and Shun-Tak Leung (Available at http://labs.google.com/papers/bigtable.html) 2. Bigtable: A Distributed Storage System for Structured Data, by Fay Chang, et.al. http://labs.google.com/papers/bigtable-osdi06.pdf 3. MapReduce: Simplified Data Processing on Large Clusters, by Jeffrey Dean and Sanjay Ghemawat http://labs.google.com/papers/mapreduce-osdi04.pdf 	7.1 Roshni Patel & Vihang Deota 7.2 Mark St.John 7.3 Bhavesh Makwana
8	Multimedia Databases (Papers) You need to find an article (and discuss with me) on any of the following subjects: NASA EOS, Genbank (Genome Project), NSF/DARPA Digital Libraries Project.	
9	Objectivity Object-Oriented DBMS (Tutorial) http://www.objectivity.com/pages/objectivity/overview.asp	9. P. Perichela & A. Pai
10	OBJECTSTORE – PROGRESS Object-Oriented DBMS (Tutorial) http://web.progress.com/en/objectstore/index.html	10. R. Pederla & R. Potluri
11	VERSANT Object-Oriented DBMS (Tutorial) http://www.versant.com	11. A.Acierno
12	Temporal Databases (Papers) <ol style="list-style-type: none"> 1. An XML-based methodology for parametric temporal database model implementation, by Seo-Young Noh *, Shashi K. Gadia, Shihe Ma. The Journal of Systems and Software, Vol. 81, Issue: 6, June, 2008. pp. 929-948 (use OhioLink) 2. Temporal and Real-Time Databases: A Survey, by Ozsoyoglu, T. and Snodgrass R. IEEE Transactions on Knowledge and Data Engineering, 1995 (use CiteSeer) 3. Universal Temporal Extensions for Database Languages, by Xinmin C., Zaniolo, C. International Conference on Data Engineering,1999. (use CiteSeer) 	12.1 Roshni Patel
13	Web Database Programming Using PHP (Tutorial) Chapter 27- <i>Fundamentals of Database Systems 5th Ed.</i> By Elmasri R., Navathe S., Pearson Pub. 2007.	Michael McAndrew
14	XML Documents and Databases (Tutorial) Chapter 27- <i>Fundamentals of Database Systems 5th Ed.</i> By Elmasri R., Navathe S., Pearson Pub. 2007.	Neha Agarwal
15	Active Databases (paper) The Starburst Active Database Rule System, by Jennifer Widom. IEEE Transactions on Knowledge and Data Engineering archive. Volume 8, Issue 4 (August 1996) (use CiteSeer)	Todd Bailey
16	Jboss & Jcache (Tutorial)	Michael Folk
17	Hibernate	William Caine
18	TBA	Jon Durda