Description

• Choose a topic and select at least 5 relevant technical papers.
  High-quality journal papers are preferred.
• Summarize and compare the papers, and then add your own discussion.
• Submit the working title and the list of candidate papers. (due 3/15)
• Submit the final report. (due 4/21)
• Size of the final report is between 25 and 35 double-spaced pages.
• Grading is based on {papers studied 7%, technical quality of the report 7%,
  written presentation of the report 7%, discussion 9%}.

Possible Topics

• Database access mechanism (such as indexing, hashing, etc.)
• Query optimization
• Concurrency control and recovery
• Parallel algorithms for query processing
• Performance evaluation of DBMS
• Parallel database systems
• Distributed database
• Multidatabases (Federated databases)
• Logic and database
• Multimedia database
• Object-Oriented database
• Multimedia database
• XML database
• NoSQL database
• Text retrieval system
• Data mining
• Data warehousing
• Web database/services
• Database security
• Other relevant topics

Reference Sources

- IEEE Trans. on Software Engineering
- IEEE Trans. on Knowledge and Data Engineering
- Computer (IEEE Computer Magazine)
- Communications of ACM
- ACM Trans. on Database Systems
- ACM Trans. on Knowledge Discovery from Data
- ACM Trans. on Information Systems
- Information Systems
- Multimedia Systems (Journal by ACM and Springer International)
- IEEE Multimedia (Magazine by IEEE)
- Data and Knowledge Engineering (Journal)
- Data Mining and Knowledge Discovery (Journal)
- IEEE Tutorials, such as Tutorial on Database Systems, etc.
- Proc. of IEEE Int’l Conf. on Data Engineering
- Proc. of IEEE Int’l Conf. on Data Mining
- Proc. of ACM Conf. on Management of Data (SIGMOD Conference)
  refer to the volumes of SIGMOD RECORD
- Proc. of ACM Symp. on Principles of Database Systems (PODS)
- Proc. of Very Large Data Bases (VLDB) Conference
- IEEE Trans. on Parallel and Distributed Systems
- ACM Computing Surveys
- Proc. of Int’l Conf. on Knowledge Discovery and Data Mining
  and Others