

Distributed & Parallel Database Systems

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Outline

- Introduction & architectural issues
- Data distribution & distributed query processing
- Distributed query optimization
- Distributed transactions & concurrency control
- Distributed reliability
- Database replication
- Parallel database systems
- Database integration & querying
- Advanced topics (to be determined)

Fundamental References

- M.T. Özsu and P. Valduriez. *Principles of Distributed Database Systems, 3rd edition*, Springer, 2011.
- Additional reading material (as needed) posted on the Web site.

Course Administravia

- Web site:
<https://cs.uwaterloo.ca/~tozsu/courses/CS742/W13/>
- Grading
 - 2 assignments 20%
 - 3 paper reviews 30%
 - Class presentation 20%
 - Final exam 30%