Possible topics for Projects

Benchmarking on parallel machines
Scheduling for Heterogeneous System Management
Parallel Image Processing Algorithms
Parallel Data Mining
Parallel Video Compression
Parallel Bioinformatics
Computational Fluid Dynamics Problems
Matrix or Linear Equation Solvers
Static Scheduling for Executing Task Graphs on Multiprocessors
Power aware distributed and parallel computing
Load Balancing for Parallel and Distributed Systems
Data Replication in Distributed Systems
Parallel Branch and Bound Algorithms
Scheduling in Multicore processors
Parallel AI Algorithms
Temperature-aware Scheduling
Energy-aware high-performance Computers in Data Centers
Emerging Parallel Applications in Science, Physics and other Fields
Sources of Information

Journals and Conferences:

- *IEEE Transactions on Parallel and Distributed Systems*, a research journal published by IEEE Computer Society.
- *Journal of Parallel and Distributed Computing* (JPDC), the very first journal devoted to this area, published by Academic Press, Inc.
- IEEE Distributed Systems online
- www.citeseer.com
- *Cluster Computing*.
- *IEEE Concurrency (Old name: Parallel and Distributed Technology)*, a dedicated magazine specialized in applications of parallel computers, published first as *IEEE Parallel and Distributed Technology* since 1993.
- *IEEE Computer Magazine*, a general magazine for all subgroups of the IEEE Computer Society. This magazine often carries special issues that are related to parallelism or networking.
- *Communication of The ACM*, a general magazine for all subgroups of the Association for Computing Machinery.
- *International Conference on Parallel Processing* (ICPP)
- *International Parallel Processing Symposium* (IPPS), an annual symposium sponsored by the IEEE/Computer Society Technical Committee on Parallel Processing.
- *International on Distributed Computing Systems*, a conference organized by IEEE.
- *Supercomputing*, a conference on high-performance computing organized by ACM and IEEE

Online Sources
UTA Library: http://lambda.uta.edu/biblio.html

Web: Google, Citeseer

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