

Ping An

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Education

Ph.D. Candidate in Computer Science, Texas A&M University, Expected Summer 2004

Ph.D. Topic: *Integrated Application Scheduling and Decomposition in Parallel and Distributed Systems*

Thesis advisor: Nancy M. Amato

M.S. in Civil Engineering, National University of Singapore, Singapore, Aug., 1998

B.E. in Engineering Mechanics, Tsinghua University, Beijing, China, Aug., 1992

Research Interests

Parallel programming tools and libraries.

Task scheduling and domain decomposition techniques for scientific applications.

Honors and Awards

Graduate Teaching Academy (GTA) fellow, GTA certificate of completion, Texas A&M University, Apr. 2004

CRA-W Travel Grant for the 2003 Federated Computing Research Conference, June, 2003, San Diego, California

Grace Hopper Celebration of Women in Computing Travel Grants, Oct. 2002, Vancouver, British Columbia, Canada.

Grace Hopper Celebration of Women in Computing Travel Grants, Sept. 2000, Cape Cod, Massachusetts.

Professional Experience

Teaching Assistant, Department of Computer Science, Texas A&M University, Fall, 2003

- Data Structures and implementations in C and JAVA, second level undergraduate course

Research Assistant, Parasol Lab, Department of Computer Science, Texas A&M University
1998 – 2003, 2004 – present

- Standard Template Adaptive Parallel Library (STAPL)
 - Parallel programming library in C++: <http://parasol.tamu.edu/compilers/research/STAPL/>
- Scientific computing
 - Particle transport parallelization: <http://parasol.tamu.edu/groups/amatogroup/research/scheduling/>

Research Assistant, Department of Civil Engineering, National University of Singapore, Singapore, Jan., 1996 – Jan., 1998.

Student Research Advising

Ms. Olga Tkachyshyn, CS major, Summer 2003. CRA-W Distributed Mentoring Project Fellow

Professional Activities

- Referee for scientific journal and conferences, including:
 - IEEE Transactions on Parallel and Distributed Systems
 - International Conference on Parallel Processing
 - International Parallel and Distributed Processing Symposium
- Seminar Organizer: Parasol Seminar, Department of Computer Science, Texas A&M University, Fall 2001
- AWICS (Aggie Women in Computer Science) membership officer, Department of Computer Science, Texas A&M University
- Membership in professional organizations
 - ACM, student member
 - IEEE, student member
 - AWICS, an ACM-W Chapter

Publications in Refereed Journals and Conferences

- [1] P. An, A. Jula, S. Rus, S. Saunders, T. Smith, G. Tanase, N. Thomas, N. M. Amato, and L. Rauchwerger, “STAPL: an Adaptive, Generic Parallel C++ Library”, *Proceedings of the “13-th Workshop on Languages and Compilers for Parallel Computing”*, Cumberland Falls, KY August 2001.
- [2] P. An, A. Jula, S. Rus, S. Saunders, T. Smith, G. Tanase, N. Thomas, N. M. Amato, and L. Rauchwerger, “STAPL: an Adaptive, Generic Parallel C++ Library”, *Proceedings of the “International Workshop on Advanced Compiler Technology for High Performance and Embedded Systems”*, Bucharest, Romania, July 2001
- [3] P. An, Phoon, K. K., and Quek, S. T., “Ergodicity of Simulated Stochastic Processes”, *Journal of the Institution of Engineers*, Singapore, 38(3), 1998, 1-7.
- [4] K. K. Phoon, S. T. Quek, and P. An, “Modified Barlett Test for Geostatistical Analysis”, *Proceedings, Eighth International Conference on Applications of Statistics Probability (1)*, Sydney, 1999, 439-444.
- [5] K. K. Phoon, S. T. Quek, and P. An, “Identification of Statistically Homogeneous Soil Layers Using Modified Bartlett Statistics”, *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*, 129(7), July 2003, 649-659.

Unrefereed Publications, Tech. Reports and Posters

- [6] P. An and Nancy M. Amato, “Task Scheduling and Parallel Mesh-Sweeps in Transport Computations”, *Technical Report TR00-009, Parasol Lab.*, Department of Computer Science, Texas A&M University, Jan. 2000.

- [7] Ping An, Alin Jula, Gabriel Tanase, Paul Thomas, Nancy M. Amato, Lawrence Rauchwerger, “Efficient Parallel Container With Shared Object View in STAPL”, Poster presented at the *2003 Federated Computing Research Conference*, June, 2003, San Diego, California
- [8] Olga Tkachyshyn, Ping An, Gabriel Tanase, Nancy Amato, ”pArray as an efficient static parallel container in STAPL”, *Technical Report, TR03-003, Parasol Lab*, Department of Computer Science, Texas A&M University, Aug. 2003
- [9] K. K. Phoon, S. T. Quek, and P. An, “Assessment of Spatial Variability Using Modified Barlett Test”, *Proceedings, Fourteenth Southeast Asian Geotechnical Conference*, Hong Kong, Dec 10-14, 2001, 167-172.

References

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