Recent Publications

1. H.F. Li and E. Al Maghayreh, "Checking distributed programs with partially ordered atoms," accepted to the 14th Asia-Pacific Software Engineering Conference, Nagoya, Japan, December 2007.
2. H.F. Li and E. Al Maghayreh, "Using synchronized atoms to check distributed programs," accepted to the 13th International Conference on Parallel and Distributed Systems, Hsinchu, Taiwan, December 2007; to appear in the proceedings (IEEE CS press).
3. H. F. Li, E. Al Maghayreh and Dhrubajyoti Goswami, "Detecting Atomicity Errors in Message Passing Programs," accepted to the Eighth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2007), Adelaide, Australia, December 2007; to appear in the proceedings (IEEE CS press).
4. H. F. Li, Eslam AL Maghayreh and Dhrubajyoti Goswami, "Using Atoms to Simplify Distributed Programs Checking," accepted to the 3rd IEEE International Symposium on Dependable, Autonomic and Secure Computing (DASC'07), Columbia, MD, USA, September, 2007; to appear in the proceedings (IEEE CS press).
5. Zunce Wei, Hon F. Li and Dhrubajyoti Goswami, "A Locality-Driven Atomic Group Checkpoint Protocol," accepted to Seventh International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT), Taipei, Taiwan, December 2006; to appear in the proceedings (IEEE CS press).
6. H. F. Li, Zunce Wei and D. Goswami, "Quasi-atomic recovery for distributed agents," in Journal of Parallel Computing (Elsevier). Vol. 32, No. 10, pp. 733-758, November 2006.

Other Selected Publications

7. H. F. Li, J. Rilling and D. Goswami, "Granularity-Driven Dynamic Predicate Slicing Algorithms for Message Passing Systems". Appeared in the Automated Software Engineering Journal, Kluwer Academic Publishers, Vol. 11, No. 1, pp. 63-89, January 2004.
8. H.F. Li, G. Girard, "View Consistencies and Exact Implementations," Journal of Parallel Computing, 29(2003), pp. 37 – 67.
9. G. Dumais, H.F. Li, "Distributed Predicate Detection in Series-Parallel Systems," IEEE Trans. on Parallel and Distributed Systems, Vol. 13, No. 4, April 2002, pp. 373 – 387.
10. S.C. Leung and H.F. Li, "On the realizability and synthesis of delay-insensitive behaviors," IEEE Trans. on CAD of Integrated Circuits and Systems, Vol. 14, No. 7, July 1995, pp. 833-848.
11. S.C. Leung and H.F. Li, "A syntax directed translation for the synthesis of delay insensitive circuits," IEEE Trans. on VLSI Systems, Vol. 2, No. 2, June 1994, pp. 196–210.

12. C.N. Zhang, H.F. Li and R. Jayakumar, "A systematic approach for designing concurrent error-detecting systolic arrays using redundancy," Journal of Parallel Computing, 19 (1993), pp. 745-764.

13. D.C.W. Pao, H.F. Li and R. Jayakumar, "Shape recognition using the straight line Hough transform: theory and generalization," IEEE Trans. on Pattern Analysis and Machine Intelligence, Vol. 14, No. 11, November 1992, pp. 1076-1089.

14. D.K. Probst and H.F. Li, "Using partial-order semantics to avoid the state explosion problem in asynchronous systems," Workshop on Computer-Aided Verificatin, Rutgers, NJ, June 1990, pp.15-24.

15. H.F. Li and D.K. Probst, "Optimal dictionary machines without compress instructions," IEEE Trans. on Computers, Vol. C-39, No. 5, May 1990, pp. 676-693.

16. H.F. Li, K. Venkatesh and T. Radhakrishnan, "Time advancement in distributed event simulation," Journal of Parallel and Distributed Computing, Vo. 9, 1990, pp. 15-25.

17. C.V. Ramamoorthy and H.F. Li, "Pipelined architecture," ACM Computing Survey, May 1977, Vol. 9, No. 1, pp. 62-102.