Primary Publications

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Architectures for hig-speed traffic shaping and link scheduling

- J. Rexford, F. Bonomi, A. Greenberg, and A. Wong, "A scalable architecture for fair leaky-bucket shaping," to appear in *Proc. IEEE INFOCOM*, April 1997.
- J. Rexford*, J. Hall, and K. Shin, "A router architecture for real-time point-to-point networks," *Proc. International Symposium on Computer Architecture*, pp. 237–246, May 1996.
- J. Rexford*, A. Greenberg, and F. Bonomi, "Hardware-efficient fair queueing architectures for high-speed networks," *Proc. IEEE INFOCOM*, pp. 638–646, March 1996.

Network performance evaluation

- W. Feng and J. Rexford, "A comparison of bandwidth smoothing techniques for the transmission of prerecorded compressed video," to appear in *Proc. IEEE INFOCOM*, April 1997.
- J. Rexford, W. Feng, J. Dolter, and K. G. Shin, "PP-MESS-SIM: A flexible and extensible simulator for evaluating multicomputer networks," to appear in *IEEE Transactions on Parallel and Distributed Systems*.
- J. Rexford, J. Dolter, W. Feng*, and K. G. Shin, "PP-MESS-SIM: A simulator for evaluating multicomputer interconnection networks," *Proc. Annual Simulation Symposium*, pp. 84–93, April 1995.
- A. Greenberg*, A. Odlyzko, J. Rexford, and D. Espinosa, "Fast parallel solution of fixed point equations for the performance evaluation of circuit-switched networks," *Performance Evaluation*, pp. 67–81, May 1994. (Also *Proc. Performance*, pp. 59–74, September 1993, chosen as best paper.)

Flexible communication hardware for multicomputer networks

- S. Daniel*, J. Rexford, J. Dolter, and K. Shin, "A programmable routing controller for flexible communications in point-to-point networks," *Proc. International Conference on Computer Design*, pp. 320–325, October 1995.
- J. Dolter, S. Daniel, A. Mehra, J. Rexford*, W. Feng, and K. Shin, "SPIDER: Flexible and efficient communication support for point-to-point distributed systems," *Proc. International Conference on Distributed Computing Systems*, pp. 574–580, June 1994.
- J. Rexford* and K. Shin, "Support for multiple classes of traffic in multicomputer routers," *Proc. Parallel Computer Routing and Communication Workshop*, pp. 116–130, May 1994.
- J. Rexford*, J. Dolter, and K. Shin, "Hardware support for controlled interaction of guaranteed and best-effort communication," *Proc. IEEE Workshop on Parallel and Distributed Real-Time Systems*, pp. 188–193, April 1994.

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* asterisk indicates conference presenter

Other Publications

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Replication protocols for fault-tolerant real-time systems

- A. Mehra, J. Rexford, H.-S. Ang, and F. Jahanian, "Design and evaluation of a window-consistent replication service," to appear in *IEEE Transactions on Computers*, 1997.
- A. Mehra*, J. Rexford, H.-S. Ang, and F. Jahanian, "Design and evaluation of a window-consistent replication service," *Proc. IEEE Real-Time Technology and Applications Symposium*, pp. 182–191, May 1995.
- J. Rexford*, A. Mehra, J. Dolter, and F. Jahanian, "Window-consistent replication for real-time applications," *Proc. IEEE Workshop on Real-Time Operating Systems and Software*, pp. 107–111, May 1994.

High-speed scientific computation (undergraduate work)

- J. Rexford and N. K. Jha, "Algorithm-based fault tolerance for floating-point operations in massively parallel systems," *IEEE Transactions on Parallel and Distributed Systems*, pp. 649–653, June 1994.
- J. Rexford and N. K. Jha*, "Algorithm-based fault tolerance for floating-point operations in massively parallel systems," *Proc. IEEE International Symposium on Circuits and Systems*, pp. 649–652, May 1992.
- I. Scherson, A. Mehra, and J. Rexford*, "Toward scalable algorithms for orthogonal, shared-memory parallel computers," *Proc. Symposium on the Frontiers of Massively Parallel Computation*, pp. 12–21, October 1990.
- J. Chen, J. Rexford, and Y. C. Lee, "Fractal boundaries in magnetotail particle dynamics," *Geophysical Research Letters*, pp. 1049–1052, July 1990.

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* asterisk indicates conference presenter