High performance reconfigurable computing with cellular automata

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Publications

1. S. Murtaza, A.G. Hoekstra, and P.M.A. Sloot, "Performance of Cellular Automata Simulations on a FPGA cluster," 2010, Submitted.

2. S. Murtaza, A.G. Hoekstra, and P.M.A. Sloot, "Performance of floating-point based Cellular Automata Simulations using a dual FPGA system," 2009, Submitted.

3. S. Murtaza, A.G. Hoekstra, and P.M.A. Sloot, "Compute Bound and I/O Bound Cellular Automata Simulations on FPGA logic," in *ACM Transactions on Reconfigurable Technology and Systems*, vol. 1, nr. 4, pp. 1–21. ACM, New York, January 2009.

4. S. Murtaza, A.G. Hoekstra, and P.M.A. Sloot, "Floating point based Cellular Automata simulations using a dual FPGA-enabled system," in *Proceeding of the Second International Workshop on High-Performance Reconfigurable Computing Technology and Applications (HPRCTA'08)*, held in conjunction with SC08, pp. 1-8. IEEE, Austin, Texas, November 27–29, 2008.

5. S. Murtaza, A.G. Hoekstra, and P.M.A. Sloot, "Performance modeling of 2D Cellular Automata on FPGA," in *17th International Conference on Field Programmable Logic and Applications (FPL'07)*, pp. 74–78. IEEE, Amsterdam, August 27–29, 2007.

6. S. Murtaza, A.G. Hoekstra, and P.M.A. Sloot, "Performance evaluation of FPGA-based Cellular Automata accelerators," in *Proceedings of the Third Annual Reconfigurable Systems Summer Institute (RSSI'07)*, (on line proceedings) +7. Reconfigurable Systems Summer Institute, National Center for Supercomputing Applications, Urbana, Illinois, July 17–20, 2007.