

CCS-1 Publications and Other Performance Indicators March 2005 to March 2006

CCS-1 Peer-Reviewed Journal Publications

J.L. Tripp, A.A. Hansson, M.B. Gokhale, and H.S. Mortveit, "Partitioning Hardware and Software for Reconfigurable Supercomputing Applications: A Case Study", SC05, International Conference for High Performance Computing, Networking, Storage, and Analysis, Seattle, WA, Nov. 2005.

J.L. Tripp, K.D. Peterson, C. Ahrens, J.D. Poznanovic, M.B. Gokhale, "An FPGA Compiler Framework for Floating-Point Algorithms", Field Programmable Logic FPL 2005, Finland, Sept. 2005.

A. Hansson, H.S. Mortveit, J.L. Tripp, and M.B. Gokhale, "Urban Traffic Simulation Modeling for Reconfigurable Hardware", Industrial Simulation Conference, Berlin, June 2005.

J.L. Tripp, H.S. Mortveit, A.A. Hansson, M.B. Gokhale, "Metropolitan Road Traffic Simulation on FPGAs", IEEE International Conference on FPGAs as Custom Computing Machines (FCCM) 2005, April 2005.

D. Bhaduri, P. Graham, M.B. Gokhale and S. Shukla, "Reliability Analysis of Fault-Tolerant Reconfigurable Architectures," IEEE International workshop on Design and Test of Defect-Tolerant Nanoscale Architectures (NANORACH), Palm Springs, CA, (May 2005).

D. Bhaduri, P. Graham, M.B. Gokhale and S. Shukla, "Analyzing Reliability-Redundancy Trade-offs of Fault-Tolerant Reconfigurable Architectures," International Conference on Bio-Nano-Informatics Fusion, Marina del Rey, CA, (July 2005).

D. Bhaduri, H. Quinn, P. Graham, M. Gokhale and S. Shukla, "Probabilistic Analysis of Self-Assembled Molecular Networks," Los Alamos National Laboratory document LA-UR-05-5541, in Systems Self-Assembly: multidisciplinary snapshots, N. Krasnogor, S. Gustafson, D. Pelta and J.L. Verdegay, Eds. (to be published in Elsevier's Studies in Multidisciplinary series).

CCS-1 Books and Book Chapters

Maya B. Gokhale and Paul S. Graham, Reconfigurable Computing: Accelerating Computation with Field Programmable Gate Arrays, Springer Verlag, Nov. 2005.

CCS-1 Invited Presentations at Professional Meetings

M.B. Gokhale, Keynote Speaker, reconfigurable Architectures Workshop, at IEEE IPDPS, April, 2006.

M.B. Gokhale, Keynote Speaker, First International Workshop on Reconfigurable computing Education Karlsruhe, Germany March, 2006.

M.B. Gokhale, CCS-1, Program Committee: High Performance Embedded Computing '01 – '05.

M.B. Gokhale, CCS-1, Program Committee: Field-programmable Custom Computing Machines 2004-2006.

M.B. Gokhale, CCS-1, Program Committee: Design Automation and Test Europe 2006.

M.B. Gokhale, CCS-1, Workshop Organizer, LANL Workshop on Distributed, Embedded Computing, 2005.

M.B. Gokhale, CCS-1, Workshop Organizer, Reconfigurable Computing Workshop, Los Alamos Computer Science Institute (LACSI) Symposium, 2005.

Professional Society Officer & Program Committee Memberships

M.B. Gokhale, CCS-1, Associate Editor, IEEE Transactions on Computers, 2004-present.

M.B. Gokhale, CCS-1, Program Committee and Associate Editor: ERSA '02 – '06.

M.B. Gokhale, CCS-1, Executive Board Member, ERSA 2006.

M.B. Gokhale, CCS-1, Program Committee: Workshop on Reconfigurable Computing Education, 2006.

M.B. Gokhale, Panelist, NSF Review Panel on Computer Architecture, Nov 2005.

CCS-1 Professional Honors, Awards, and Election to National Scientific and Engineering Societies

M.B. Gokhale, National Foreign Intelligence community Seal Medallion Senior Member, IEE Keynote Speaker, First International Workshop on Reconfigurable computing Education, Karlsruhe, Germany, March 2006.