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Ph.D.: Environmental Science. SUNY College of Environmental Science & Forestry. 1988.

Research Interests: Parallel computation, environmental modeling, technology integration, financial and medical information systems.

Technical Papers

1993. G. Cheng, C. Faigle, G. Fox, W. Furmanski, B. Li, K. Mills. Exploring AVS for HPDC Software Integration: Case Studies Towards Parallel Support for GIS. AVS '93 Conference, Lake Buena Vista, FL, May 24-26, 1993.

1993. G. Cheng, Y. Lu, G. Fox, K. Mills, T. Haupt. An Interactive Remote Visualization Environment for an Electromagnetic Scattering Simulation on a High Performance Computing System. submitted to Supercomputing '93.

1993. N. Chrisochordes, K. Droegemeier, G. Fox, and K. Mills. A Methodology for Developing High Performance Computing Models: Storm-Scale Weather Prediction. *The Society for Computer Simulation 1993 MultiConference*. March 29 - April 1, Washington, D.C.

1993. G. Cheng, K. Mills, and G. Fox. An Interactive Visualization Environment for Financial Modeling on Heterogeneous Computing Systems. *The Sixth SIAM Conference in Parallel Processing for Scientific Computing*. March 22-24, Norfolk, VA.

1992. K. Droegemeier, M. Xue, K. Johnson, K. Mills, and M. O'Keefe. Experiences with the Scalable-Parallel ARPS Cloud/Mesoscale Prediction Model on Massively Parallel and Clustered-Workstation Architectures. Invited paper for the *Fifth Workshop on Use of Parallel Processors in Meteorology*. European Centre for Medium-Range Weather Forecasts. Reading, England. November 23-27. 31 p.

1992. K. Mills, F. Csillag, and M. Kaddoura. GORDIUS: A Data Parallel Algorithm for Spatial Data Conversion. to be published in *Computers & Geosciences*.

1992. K. Mills, G. Fox, N. McCracken, and A. Mehrota. A Parallel Language Comparison with a Two Level, Shallow Water Climate Model. Technical Report SCCS-262.

1992. Csillag, F. and K. Mills. Linking Error Properties of Fields and Objects in a Geographic Information System. *Pedometrics-92*. September 3-6, Wageningen, The Netherlands.

1992. A. Mohamed, G. Fox, G. von Laszewski, M. Parashar, T. Haupt, K. Mills, Y. Lu, N. Lin, and N. Yeh. Applications Benchmark Set for Fortran-D and High Performance Fortran. Technical Report SCCS-327.

1992. K. Mills, G. Cheng, M. Vinson, S. Ranka, and G. Fox. Software Issues and Performance of a Parallel Model for Stock Option Pricing. *The Fifth Australian Supercomputing Conference*, December 7-9, 1992, Royal Melbourne Institute of Technology and The University of Melbourne.

1992. K. Mills, M. Vinson, and G. Cheng. A Large Scale Comparison of Option Pricing Models with Historical Market Data. *The Fourth Symposium on the Frontiers of Massively Parallel Computation*, October 19-21, 1992, McClean, Virginia, IEEE Computer Society and NASA Goddard Space Flight Center.

1992. K. Mills, G. Fox, and R. Heimbach. Implementing an Intervisibility Analysis Model on a Parallel Computing System. *Computers & Geosciences*. Vol. 18, No. 8, pp. 1047-1054, Pergamon Press Ltd, 1992.

Related Experience: Kim Mills is a Research Scientist and Project Leader at the Northeast Parallel Architectures Center at Syracuse University. Current application projects include developing a MPP strategy for weather forecasting with the University of Oklahoma NSF Science & Technology CAPS center, a NASA HPCC grand challenge of four-dimensional data assimilation with NASA Goddard Space Flight Center, regional scale modeling of acid deposition and public policy making with a consortium funded by IBM environmental program, hydrological modeling for real-time flood forecasting with SUNY College of Environmental Science & Forestry, and climate modeling and parallel language issues with TRW. Other application projects include computational finance and medicine.