

Russ Miller, Distinguished Professor, SUNY-Buffalo

RUSS MILLER co-authored seminal papers in the fields of parallel algorithms for the mesh, pyramid, hypercube, and reconfigurable architectures in domains that include computational geometry, image analysis, and fundamental data movement operations. He has published nearly 200 papers, chapters, and abstracts of presentations at national and international meetings and has co-authored two textbooks on parallel and sequential algorithms. His work in theoretical and applied parallel algorithms led to his work in molecular structure determination, which was recognized by the IEEE poster “Top Algorithms of the 20th Century.” Dr. Miller founded the Center for Computational Research (CCR) at SUNY-Buffalo, where he served as Director from 1998-2006. Under Miller’s leadership, CCR served as a model for infrastructure required to enable 21st century discovery and, for a brief period, was the largest academic supercomputing center in the world. Miller is Founding Executive Director and member of the Governing Board of NYSGrid, a cyberinfrastructure initiative in New York State. Miller maintains appointments as UB Distinguished Professor of Computer Science and Engineering and senior scientist at the Hauptman-Woodward Medical Research Institute. Miller has been instrumental in ~\$0.5 Billion to Western New York, including personal peer-reviewed funding, appropriations, and contacts. Dr. Miller is an IEEE Fellow for his “contributions to the theory and practice of parallel algorithms and architectures.”