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Professional Preparation

Ph.D. Computer Science, Georgia Institute of Technology, Atlanta, GA, 2011
B.S. Computer Systems Engineering, Ghulam Ishaq Institute of Technology, Pakistan, 2001

Appointments

2011-present Research Scientist, Oak Ridge National Laboratory, Oak Ridge, TN
2011-2011 Research Leader, University of Tennessee Knoxville, Knoxville, TN

Relevant Publications

1. Q Liu, J Logan, Y Tian, H Abbasi, N Podhorszki, JY Choi, S Klasky, R Tchoua, et.al, "Hello ADIOS: the challenges and lessons of developing leadership class I/O frameworks", Concurrency and Computation, Practice and Experience, 2013
 2. JC Bennett, H Abbasi, PT Bremer, R Grout, A Gyulassy, T Jin, S Klasky, et.al, "Combining in-situ and in-transit processing to enable extreme-scale scientific analysis", SC 2012
 3. Hasan Abbasi, Greg Eisenhauer, Scott Klasky, Karsten Schwan, Matthew Wolf. "Just In Time: Adding Value to IO Pipelines of High Performance Applications with JITStaging, HPDC 2011.
 4. Fang Zheng, Hasan Abbasi, Ciprian Docan, Jay Lofstead, Qing Liu, Scott Klasky, Manish Parashar, Norbert Podhorszki, Karsten Schwan, Matthew Wolf, "PreData - Preparatory Data Analytics on Peta-Scale Machines", IPDPS 2010
 5. Hasan Abbasi., Matthew Wolf, Greg Eisenhauer, Scott Klasky, Karsten Schwan, and Fang Zheng, "DataStager: scalable data staging services for petascale applications", HPDC 2009
 6. Hasan Abbasi, J. Lofstead, F. Zheng, S. Klasky, K. Schwan and M. Wolf, "Extending I/O through High Performance Data Services", Cluster 2009
 7. Hasan Abbasi, Matthew Wolf, Karsten Schwan, "LIVE Data Workspace: A flexible, dynamic and extensible platform for Petascale applications", Proceedings of Cluster 2007
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Synergistic Activities

- **General:** Extensive experience in data staging for improved I/O efficiency and data processing pipelines.
 - **OLCF:** Researching new methods for data movement and data processing to enable innovations in analytics and visualization.
 - **ExaCT:** Extensive involvement with combustion co-design center with regards to Scientific Data Management and Analysis (SDMA).
 - **RSVP:** Design and development of exascale workflow system with ADIOS.
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Collaborators & other affiliations

J. Cummings (Cal Tech), C. Docan (Rutgers), G. Eisenhauer (Georgia Tech), S. Etheir (PPPL), A. Gavrilovska (Georgia Tech), J. Lofstead (Sandia), R. Oldfield (Sandia), M. Parashar (Georgia Tech), K. Schwan (Georgia Tech), P. Widner (Emory), M. Wolf (Georgia Tech), F. Zheng (Georgia Tech)

Advisor: Prof. Karsten Schwan, Georgia Institute of Technology, Atlanta, GA