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David A. Bader
Full Professor in the
School of
Computational
Science and
Engineering, College
of Computing, at
Georgia Institute of
Technology, and
Executive Director for
High Performance

Computing

Dr. Bader is a lead scientist in the DARPA Ubiquitous High Performance Computing (UHPC) program. He received his Ph.D. in 1996 from The University of Maryland, and his research is supported through highly competitive research awards, primarily from NSF, NIH, DARPA, and DOE.

Bader is also one of the original co-founders of the Graph 500, who, since its first list was unveiled at SC '10, is establishing itself as the preeminent benchmark for data-intensive applications, which are becoming extremely important for business analytics, finance, and any other field where vast data sets need to be evaluated. This is the first serious approach to complement the Top500 with data intensive applications, and we are looking forward to watching it continue to grow and evolve over the upcoming year.

He serves on the Research Advisory Council for Internet2, the Steering Committees of the IPDPS and HiPC conferences, the General Chair of IPDPS 2010 and Chair of SIAM PP12. He is also an associate editor for several high impact publications including the Journal of Parallel and Distributed Computing (JPDC), ACM Journal of Experimental Algorithmics (JEA), IEEE DSONline, Parallel Computing, and Journal of Computational Science, and has been an associate editor for the IEEE Transactions on Parallel and Distributed Systems (TPDS).

Bader's interests center upon the intersection of high-performance computing and real-world applications, including computational biology, genomics and massive-scale data analytics. He has co-chaired a series of meetings, the IEEE International Workshop on High-Performance Computational Biology (HiCOMB), co-organized the NSF Workshop on Petascale Computing in the Biological Sciences, written several book chapters, and co-edited special issues of the Journal of Parallel and Distributed Computing (JPDC) and IEEE TPDS on high-performance computational biology.

He is also a leading expert on multicore, manycore, and multithreaded computing for data-intensive applications, such as those in massive-scale graph analytics. As if that was not impressive enough, Bader has also co-authored over 100 articles in peer-reviewed journals and conferences, and his main areas of research are in parallel algorithms, combinatorial optimization, massive-scale social networks, and computational biology and genomics.

Prof. Bader is a Fellow of the IEEE and AAAS, a National Science Foundation CAREER Award recipient, and has received numerous industrial awards from IBM, Cray, NVIDIA, Intel, Oracle/Sun Microsystems, and Microsoft Research. He served as a member of the IBM PERCS team for the DARPA High Productivity Computing Systems program, was a distinguished speaker in the IEEE Computer Society Distinguished Visitors Program, and has also served as Director of the Sony-Toshiba-IBM Center of Competence for the Cell Broadband Engine Processor.

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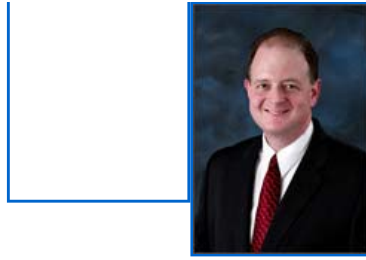
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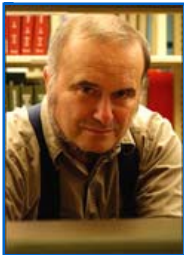
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