HPC Leader Touts Manycore Processors to Advance Biomedicine and Security

(Atlanta, GA – September 2007) College of Computing Associate Professor David A. Bader delivered a keynote talk on "Petascale Computing for Large-Scale Graph Problems" at the 7th International Conference on Parallel Processing (PPAM) on September 11, 2007 in Gdansk, Poland.

Bader focused on graph theoretic kernels for connectivity and centrality to impact applications like biomedical research and national security.

“Our free lunch is over – we can no longer ride the rapid advance of microprocessor technology to achieve the high-performance necessary for future advancements,” said Bader, “We must innovate and design new manycore algorithms and techniques that can take advantage of chips with potentially hundreds of cores."

The PPAM 2007 conference was held in cooperation with the Society for Industrial and Applied Mathematics (SIAM) and attended by over 230 researchers. The focus this year was on grid computing and large-scale applications, as well as software tools which facilitate efficient and convenient utilization of modern computing architectures. The biennial conference was first held in 1994.