

# *Faculty of Computer Science*

## *Features Guest Speaker*

"Get results: fast, correct, reliable"

by

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### Abstract

We introduce the term "return on investment (ROI)" to scientific computing environments and discuss that utilization alone is not a good metric for efficient resource utilization. Before an application can be scheduled a resource of a computational grid, a profiling should determine which type of platform (horizontal or vertical scalable) is the most appropriate in terms of efficient usage (scalability versus speedup). Examples from work at a COE in Europe are given; different tools and best practices are discussed. Once the profile has been determined, we discuss different ways to increase the resource utilization of a heterogeneous data center infrastructure (grid, portals).

Heinz Joerg Schwarz is currently Senior Group Manager in the Sun Microsystems, Inc. Education Line of Business. As such, he is responsible for Sun's global business development in education and academic research.