



## 3<sup>rd</sup> Workshop on Productivity and Performance (PROPER 2010) Tools for HPC Application Development

at [EuroPar 2010 Conference](#), Ischia/Naples/Italy, End of August 2010

Driven by current trends in microprocessor design, the number of processor cores on modern supercomputers grows rapidly from generation to generation. As a consequence, applications need to harness much higher degrees of parallelism in order to satisfy their growing demands for computing power.

Writing code that runs correctly and efficiently on large numbers of processors and cores is extraordinary challenging. The increased concurrency levels place higher demands on the application development process and thus require adequate tool support for debugging and performance analysis. The PROPER workshop will serve as a forum to present novel work on scalable methods and tools for high-performance computing. The workshop covers parallel program development and analysis, debugging, correctness checking, and performance measurement and evaluation. Further topics include the integration of tools with compilers and the overall development environment as well as success stories reporting optimization or improvements of parallel scalability achieved using tools.

### Workshop Topics:

- tools and tool approaches for parallel program development and analysis
- correctness checking
- performance measurement and evaluation
- success stories about optimization or parallel scalability achieved using tools

The workshop is supported by the [Virtual Institute - High Productivity Supercomputing \(VI-HPS\)](#), an initiative to promote the development and integration of HPC programming tools.

### Important Dates:

- May 30th: submission deadline for extended abstracts
- June 19th: notification of acceptance
- Aug 20th: full papers due
- Sept 28th: final review results
- Oct 15th: camera ready papers due

The workshop submissions will undergo a two-stage review. Before the workshop there will be a selection of submissions to be presented during the workshop. Shortly before the presentations there is another deadline for the full papers. They will be reviewed for inclusion in the EuroPar workshop proceedings.

For the first stage, please prepare an extended abstract of approx. 4 pages or a full paper of not more than 12 pages in Springer LNCS format. See <http://www.vi-hps.org/proper2010ws/> for more details.

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