



OMNeT++ 2008

www.omnet-workshop.org

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1st International OMNeT++ Workshop held in conjunction with SIMUTools 2008, <http://www.simutools.org>

Workshop co-chairs:

Andras Varga, Simulcraft Inc.
Falko Dressler, Univ. Erlangen
Andreas Willig, TU Berlin

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Cristina Comaniciu, Stevens Inst.

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Important Dates:

Full paper: December 16, 2007
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OMNeT++ is a public-source, component-based, modular and open-architecture simulation environment with strong GUI support and an embeddable simulation kernel. Its primary application area is the simulation of communication networks. Because of its generic and flexible architecture it has been successfully used in other areas like the simulation of IT systems, queuing networks, hardware architectures, and business processes. OMNeT++ is rapidly becoming a popular simulation platform in the scientific community as well as in industrial settings. Several open source simulation models have been published, in the field of Internet simulations (IP, IPv6, MPLS, etc), mobility and ad-hoc simulations and other areas. However, such a growing community faces also growing challenges and problems: Integration of different simulation tools, porting of simulation models between different platforms, testing and comparison of applications. Different initiatives were started in the last years for unifying and integrating the already existing simulation models, which involves however also organization and coordination among the different user groups. An important task is making the existing tools and applications easily available.

The goal of this workshop is to bring together OMNeT++ users and their tools, applications and ideas. It intends to provide a forum for presentations of recent developments and novel ideas in the broad context of network simulation with focus on OMNeT++. It will bring together researchers to focus on the important topics of integrating simulation models, coupling different simulation tools, providing better modeling approaches, and contributing to the active modeling and simulation community with respect to identifying some of the most promising candidate solution methods, architectures and techniques to address the various challenges of network simulation. The benefits are two-fold: On the one hand OMNeT++ users get into direct discussion and on the other hand they can meet with developers. Furthermore, the developers can pick up ideas for the future development.

Topics of interest include, but are not limited to:

- Parallel simulation
- Simulation control
- Result interpretation and analysis
- Debugging
- Simulation in the loop
- Modeling techniques
- Coupling with other simulation/emulation tools
- Integration of hardware-specific code
- Cross-layer protocol design methodologies
- Mobility models
- Simulation of wireless networks
- Industrial applications
- Use of OMNeT++ in other domains

Authors are invited to submit full papers of up to 8 pages, or short papers of up to 3 pages, in ACM conference proceedings format. All accepted papers will be made available in ACM Digital Library, as well as indexed by EI and ISI Index. Detailed submission instructions, together with format files, are available on the website.

