Call for Papers

SimTech-Workshop: Computer Simulations and the Changing Face of Scientific Experimentation

Stuttgart, Germany, September 21 - 23, 2011

Computer simulations are increasingly entering realms that have formerly been reserved for experimentation. In this workshop we want to address questions like: How are simulations related to experiments? When can simulations replace experiments? When are experiments still needed? How can simulations and experiments interact? What are successful research patterns for “computer experiments”? How did these issues change historically throughout the 50+ years in which simulation has been practiced?

The workshop intends philosophical and historical discussion about the relation between computer simulations and experimentation. We invite authors addressing one of the following topics to submit contributions:

- Relation between simulations and experiments
- Simulations as a substitute for experiments
- Simulations as a complement or amendment to experimentation
- Validation and best practices of simulations
- Taxonomy of computer simulations
- Historical case studies on the relation between simulations and experiments

Confirmed invited speakers

- Paul Humphreys, University of Virginia
- Anouk Barberousse, IHPST, Paris

Deadline for submissions: March, 1st 2011

Further details and submission of abstracts: http://websrv.simtech.uni-stuttgart.de/

The workshop's organizers are Eckhart Arnold, Juan Duran (Institute of Philosophy) and Klaus Hentschel (Institute of History). For questions contact: eckhart.arnold@philo.uni-stuttgart.de.