

2nd Münster Workshop on Agent-based Modeling

The interdisciplinary Research Training Group ‘*Trust and Communication in a Digitized World*’ at the University of Münster [funded by the German Research Foundation (Deutsche Forschungsgemeinschaft)] is proud to announce a Workshop on Agent-based Modeling (ABM).

Workshop: Thursday, July 16, 2015, from 10 a.m. to 6 p.m.

Friday, July 17, 2015, from 9 a.m. to 1 p.m.

Venue: Seminar Room Research Group, Geiststraße 24-26, 48151 Münster, Germany

Website: <http://www.uni-muenster.de/GK-Vertrauen-Kommunikation/abm-workshop/abm-workshop.html>

Agent-based Modeling (ABM) is a recent non-standard computational approach for simulating complex systems comprised of autonomous and interacting agents. Various research fields do use more and more frequently this computational approach, which is the so-called ‘third way’ of doing science, in addition to argumentation and formalization. The workshop is conducted by Klaus G. Troitzsch and László Gulyás.

Klaus G. Troitzsch was Full Professor of Computer Applications in the Social Sciences at the University of Koblenz-Landau, Germany, from 1986 to 2012. Despite retirement he has continued research in agent-based social simulation in lectures and papers on the epistemological status of simulation, its relation to empirical research and classical theory building. He organized several workshops and conferences, is member of the SimSoc Consortium which publishes the Journal of Artificial Societies and Social Simulations (JASSS) and founding member of the European Social Simulation Association (ESSA). His workshop lectures are on the role of simulation as an alternative to mathematical theory formalization. With a number of examples he discusses the problems of sensitivity analysis and statistical analysis of Monte Carlo runs in simulation models. And he also touches the problem of empirical validation of simulation models which can only be solved when a simulation model is able to produce results which are structurally equivalent to empirical datasets.

László Gulyás is Assistant Professor at the Department of History and Philosophy of Science, Eötvös Loránd University, Hungary. He is doing research on ABM since 1996. László Gulyás has contributed to the design and development of the Recursive Porous Agent Simulation Toolkit (RePast), one of the leading agent-based simulation environments, and led the development of the Multi-Agent Simulation Suite (MASS). His workshop lecture is on Participatory Extension (PET), a software tool to bridge agent-based simulations and behavioral experiments. This tool converts ABM’s to web simulations, participatory experiments, and / or laboratory experiments with human subjects.

To take part in the Workshop, please communicate clearly your willingness of attendance by sending the following information to Daniel Westmattelmann via email to daniel.westmattelmann@wiwi.uni-muenster.de no later than **May 17, 2015**:

- Last Name / First Name
- University / Faculty / Chair / Academic Degree / PhD Program
- E-Mail Address
- Brief Information regarding your Knowledge / Experience with Agent-based Modeling

Notice of Acceptance is communicated no later than **May 30, 2015**. On the first day of the Workshop all participants have the opportunity to present their research ideas / research projects. If you are interested in discussing your project as well as getting scientific feedback and constructive criticism, please send us via email the following information about your project:

- Abstract (300-500 words) no later than **May 17, 2015**
- Full Paper / Extended Abstract no later than **June 14, 2015**

Discussants are allocated to paper presentations to stimulate the debate on your research project with Klaus G. Troitzsch, László Gulyás and the audience. Participants have the opportunity to discuss their own research ideas in small groups and to receive scientific advice as well as constructive support by the lecturers.

We look forward to receive your application and hope to see you soon in Münster!

Gerhard Schewe & Daniel Westmattelmann (WWU Münster), **Sascha Hokamp** (University of Hamburg)
Workshop Organizers