Einladung zum Informatik-Kolloquium

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Forecasting Bottlenecks of ER with Agent-Based Social Simulation

Social systems are systems in which humans have a major influence on the performance of the system. Social systems often complexing features, such as distributed decision making and interaction between individuals, which makes it difficult to identify and predict performance issues in a timely manner. Decision support tools can assist with this by showing likely outcomes based on many simulations with multiple scenarios. Agent-based simulation in particular is promising in this area, as a real world scenario with many actors translates nicely to an agent-based design with multiple autonomous agents. However it is not straight forward to implement the normative behavior of real world actors in the agents. People in a department have common ways of doing things, which may, for good reasons, deviate from established guidelines. In this talk I present my work with implementing agent-based simulation for ER in the agent-based simulation platform GAMA, which includes geodata, BDI-based models, agent organizations and common practices. I also discuss my work on using data from a real hospital to both make the simulation more accurate and evaluate the accuracy of it as a decision support tool.

Donnerstag, 14.06.2018, 10 Uhr s.t.

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