

Summary of the Scientific Report

COST Action IC0801, Reference Number STSM200905, Beneficiary: René Schumann, Host: Sascha Ossowski, Period 21st - 30th June 2009

Purpose and results of the visit

In the focus of the visit was a certain aspect of agreement technologies, namely the coordination of planning systems, inherently distributed among different organizational units. This research contribute to the research done under the COST Action IC0801 in the working group 3 "Organizations". During the visit two aspects were focussed:

The CoPS (Coordination of Planning Systems) project was presented to and discussed with the hosting group of Prof. Ossowski. Thereby especially elaborating on the current research issues, that are of interest in this project. The formalization of a sound scenario model for the CoPS project has been done, so that a proper base for the formalization of the coordination requirements is laid out. Based on these requirements, existing coordination approaches can be investigated and classified, according to their compliance-level.

Furthermore the visit initiated fruitful discussions about aspects of multi-agent research that is done by both groups and that offer abilities for future joined efforts and exchange. Those issues are the

- Evaluation techniques for coordination methods designed for inherently distributed systems.
- Modeling dynamics in business relations(*emergent business relations*)
- Modeling of norms for MAS
- agents in computer games

Future Collaboration

In the future collaboration concerning the issues of

- models, dynamics and properties of emergent business relations,
- simulation and evaluation of open systems within dynamic environments.
- incorporating reputations and trust models into the CoPS framework

In consequence of the visit both groups strive to establish joint research projects, and publication concerning this topics.