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TITLE: Multi-agent Knowledge and Belief Change in the Situation Calculus

Knowledge and belief change is an important research topic in logic and AI.

Baltag and Smets have proposed a general framework for integrating belief revision into dynamic epistemic logics. In line with the AGM approach of giving priority to new information, they proposed the action priority update operation. In this talk, I will present our work on incorporating action priority update into the situation calculus to develop a general multi-agent extension of it where we can reason about actions, both physical and epistemic, and change, not only world change but also knowledge and belief change. This is joint work with Liangda Fang.