Trust plays a critical role in communications, strength of relationships, and information processing at the individual and group levels. Cognitive social simulations show promise in providing an experimental platform for the examination of social phenomena such as trust formation. This work is a novel attempt at trust representation in a cognitive social simulation using reinforcement learning algorithms. Initial algorithm development was completed within a standalone social network simulation and tested using a public commodity game. Evaluation of the contributions and dividends within the public commodity game shows that many of the expected behaviors of human trust formation are present. Initial results show that reinforcement learning can accurately capture the core essentials of human trust formation. Following standalone testing, the trust algorithm was imported into the Cultural Geography model for large-scale test and evaluation.

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Pollock, S., Alt, J. and Darken, C. "Representing Trust in cognitive social simulations―, Proceedings of the 4th International Conference on Social Computing.

brief review of how contextual cognition has been used in social simulation, followed by an . simulations represent any of the processes for dealing with such context- that the definitions of trust mean that trust is also context- dependent. Using a Cognitive Model to Represent Information in a Social Simulation. Teresa Ko*, Justin creates cognitive models of individuals that are capable of comprehending new .. The existence of greater trust and certainty would counter this. methodological guide to the use of BDI agents in social simulations, and an is a recent paradigm that allows modellers to reason and represent the cognitive ability―, which limits their ability to understand the model .. allow the agent to reason about its trust model and to adapt it to a given context.

Keywords: cognitive modeling, a priori model prediction, strategic interaction, trust dynamics, transfer of learning, trust, social dilemma . A game represents an abstraction of a real world scenario, where the outcomes that.

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