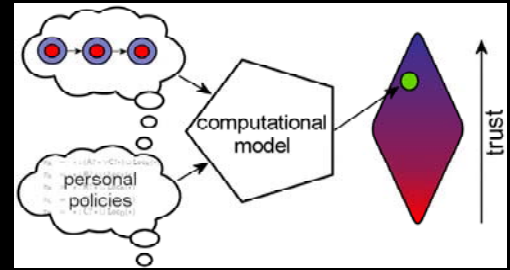
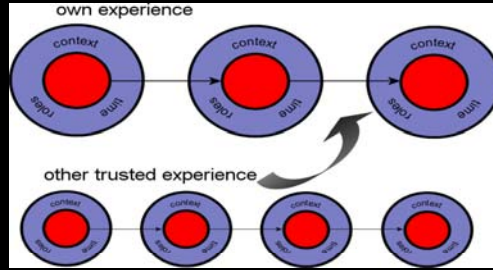
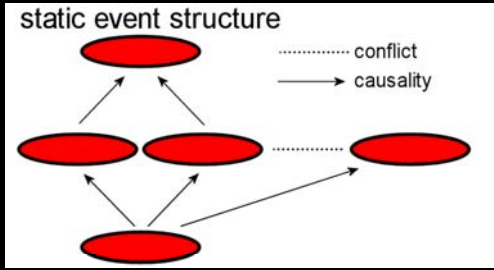


## Trust Models for Communication Spaces

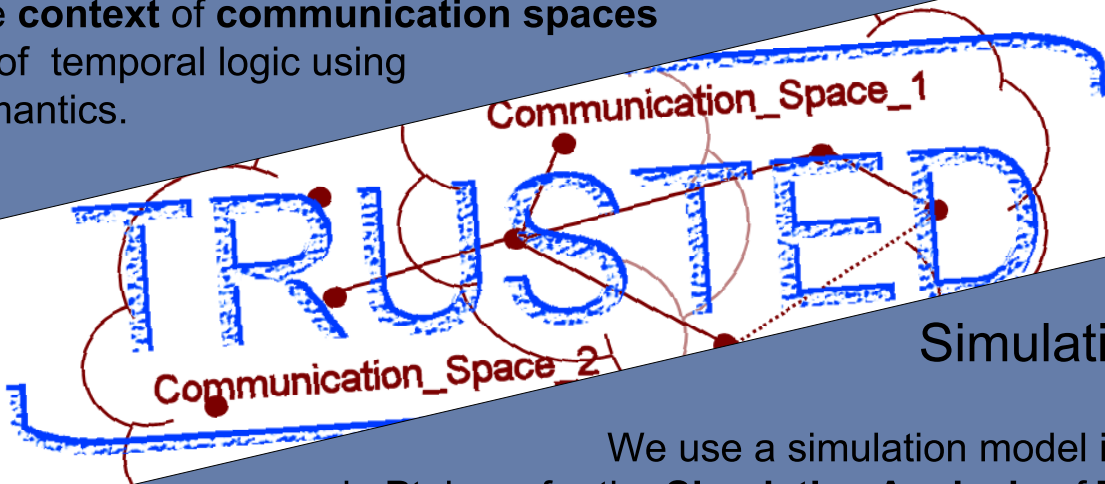
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### A Trust Model for Communication Spaces

**Experience** is modelled building upon the Event-Structure Framework. **Trust** itself is represented in the Trust-Structure Framework. A **global trust state** can be obtained with the **computational model** proposed by Kurkow et al.

We introduce a flexible way to **derive trust** from experience in the **context of communication spaces** by means of temporal logic using Kripke-semantics.



### Simulation Model

We use a simulation model implemented in Ptolemy for the **Simulative Analysis** of Trust Models for Communication Spaces (CS). The model reflects both the **CS structure** (principals, policies, event structure, etc.) and the **interactions** between the elements of CSs (principal behavior is based on Markov chains, criteria for selecting peers that initiate transactions, etc.). We investigate trust policy convergence, metrics for trust policy comparison, policy efficiency against attacks, the scalability of trust policies, etc.

