

Modeling Electronic Institutions

Part 1: Steps 1-4

1. Electronic institutions parallel traditional institutions by providing normative patterns for organizations they characterize. For example, traffic violation law enforcement operations at each region (e.g., right/left turn on red) maintain their own sets of traffic processing protocols (i.e., their institutional policies). Pick two domains and consider variety of applicable institutions that cover different scopes and exert different legal powers. Consider ideas for resolving contradictions and conflicts.
2. Abstract and synthesize ideas from step 1 and formulate specific conflict resolution rules.
3. Compare your rules to others in a report.
4. Implement a prototype program that illustrates steps 1-3. Present progress and submit your interim report.

Part II step 5

5. As strongly as possible, show how your formulation outperforms previous work.

References

Tingting Li, Jie Jiang, Huib Aldewereld, Marina De Vos, Virginia Dignum and Julian Padget, 2013. Contextualized Institutions in Virtual Organizations, in AAMAS COIN 2013.