



# LAMAS SING: Some Issues for Discussion

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## A Statement...

The problems that we work on mainly arise in interaction of multiple autonomous entities which is complex and hard to analyse. There are many areas around computer science where interaction is at the focus: game theory, social choice theory, multi-agent systems, modal logic logic in CS, security protocols, information security etc.



## A Statement...

I believe we should try to establish communication between the communities in order to:

- See the bigger picture and look at the problems we work on in a broader perspective;
- Identify which problems are really relevant in the bigger scheme of things, and which are idiosyncratic;
- Enable transfer of questions, ideas, and technical solutions between communities;
- Enable fusion of models and transfer of methodologies in order to better answer the needs of a particular community (cf. economics of information security, security analysis in socio-technical systems etc.).



## ...and Some Questions

What are:

- Current challenges and hot topics related to strategic interaction?
- Future hot topics?!
- Analysis of social procedures: What properties are relevant?
- What security analysis can benefit from logic and vice versa?
- What security analysis can benefit from game theory/social choice theory and vice versa?
- Specification and verification of security in socio-technical systems: what are the main challenges? does game theory/social choice theory help?
- Specification and verification of voting protocols: is it that obvious and simple? Can we use logic/model theory to help?
- What benchmark scenarios can/should be used?