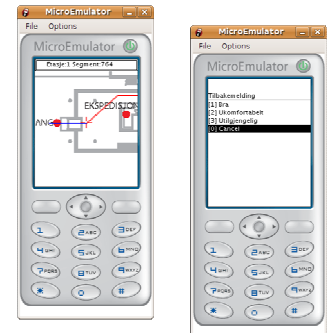


Ad-hoc social network support

Steinar Kristoffersen

Motivation: Not OurWay



Problems of explicit formation

- Participants do not see their role within the bigger network of action
- People see the network as a means to an end, and if the “end is near,” i.e. The objective about to be reached, then the network is only a distraction

Problems of explicit formation

- The work needed (“to make the network work”) is not focused upon
- People don't see the network as a community, i.e., the technical aspects may be manifest, but not the social implications

The alternative strategy

- Form the network implicitly,
- Build on intentionality and efficacy
- Compile “snapshots” from processes to make models that can be replicated across settings

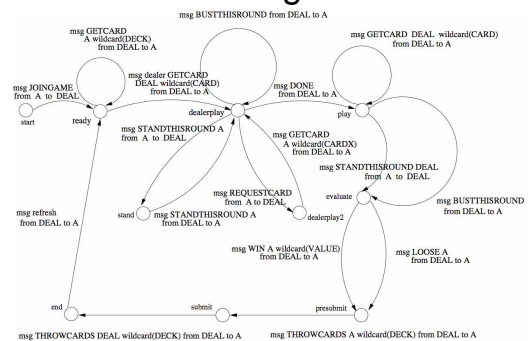
Supporting implicit

- Suggestion to rely on theories of labelled transition systems (LTS)
 - Existing, compact and solid theory
 - Lends itself nicely to automated reasoning
- Collecting “datagrams” from communication between agents is conceptually simple, but
 - Heterogeneous, and quite difficult to operationalize
 - Compacting strategies for reasoning and re-use are needed, but unfortunately complex

Challenges of such modelling

- Creating uniform representations from heterogeneous data
- Compacting the representation into models that we can analyze
- Making useful applications on top of the models, i.e. pedagogical presentations of the models

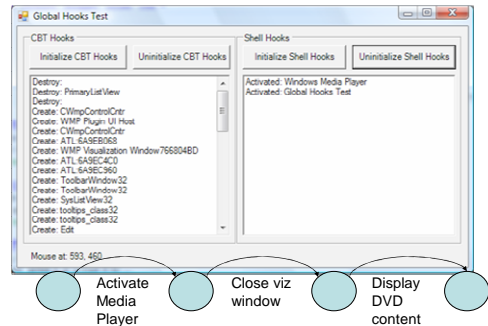
Ideal modelling outcomes



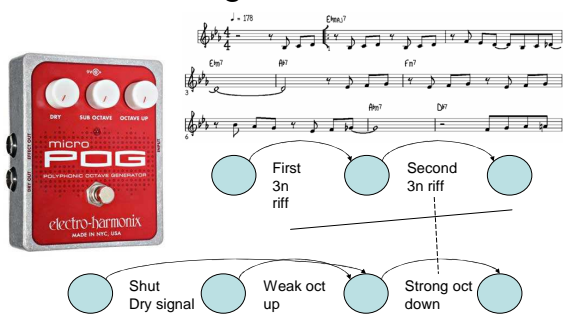
But in reality

- Structural: Hard to tell difference between a straight sequence
 - Cycles
 - Alternatives
- Semantic: When is a term the same as another, regardless of their lexical overlap
- Need to develop a set of heuristics in order to create powerful models
- We are working out good examples of the ad-hoc formation of communities

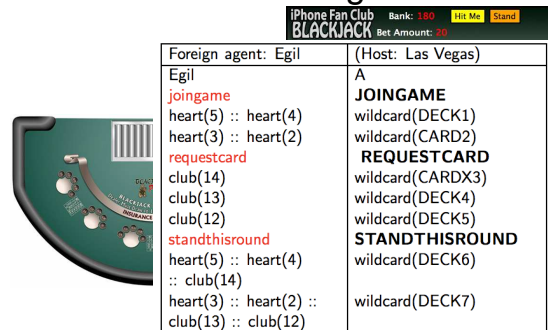
IT support “by proxy”



Modelling musical effects



Automatic integration



Conclusion

- Easy principle of datagram collection and strong formalisms for modelling ad-hoc social network support need heuristics to be viable
- Next step is to implement a LTS-engine for several example domains:

Questions?

- Sk@hiof.no
- Østfold University College
- Halden, Norway

Facebook example: Applications

QuickTime™ and a
TIFF (LZW) decompressor
are needed to see this picture.