Agent Program
$\in wff(\mathrm{SPL})$
SPL Semantics
Fair Transition System
Agent Communication Language Specification
$\in wff(\mathcal{L}_{cSpec})$
ACL Specification Language Semantics
$[\![-]\!]_{cSpec}$
Possible System Models
System Model
Program State 0
Program State 1
ACL Message
$\in wff(\mathcal{L}_c)$
Program State 2
Program State 3
Possible Successor States
Message Semantics
$[\![-]\!]_c$
System Models
Observed States
Social State 0
Social State 1
Social State Change Function
Social State 2
Social State 3
Possible Successor States
Social Facts Language Specification
$\in wff(\mathcal{L}_{fSpec})$
Social Facts Specification Language Semantics
$[\![-]\!]_{fSpec}$
Social Facts Semantics
$[\![-]\!]_f$
Temporal Logic Formula
$\in wff(\mathcal{L}_t)$
Temporal Logic Semantics
Compare Models
Possible System Models