## **Most General Winning Secure Eq**



Satya Prakash Nayak and Anne-Kathrin Schmuck

Ra d 🗲

## Winning Sec

- ► (*Str*<sub>O</sub>, \* ►  $Str_{\bigcirc} \models \bigcirc$  loses  $\Rightarrow \square$  also loses
- ►  $Str_{\Box} \models \Box$  loses  $\Rightarrow$   $\bigcirc$  also loses

• most general WSE = collection of equilibria as independently realizable specifications • sound and efficient but incomplete algorithm • generalized to k-player games (even with Env)

## **Future Works**

• extend the notion to other equilibria, e.g., subgame-perfect equilibria quantitative settings

<b>Juilibria Synthesis</b> MPI-SWS, Germany		
ational Players in a Graph Game		
b b c e g Goal		$Obj_{\Box} = infinitely of$ $Goal_{\Box} = (Obj_{\Box}, \neg c)$
<b>cure equilibrium (WSE)</b> $(tr_{\bigcirc}, Str_{\square})$ $(str_{\square}) \models both win$	cooperative strategy $Str_{\bigcirc}^{c}$ :a $\rightarrow$ e b $\rightarrow$ e $Str_{\bigcirc}^{c}$ :e $\rightarrow$ d	+ punishment strated + $Str_{\Box}^{p}$ :e $\rightarrow$ g

## Contribution

