Mixed strategies

Matching pennies

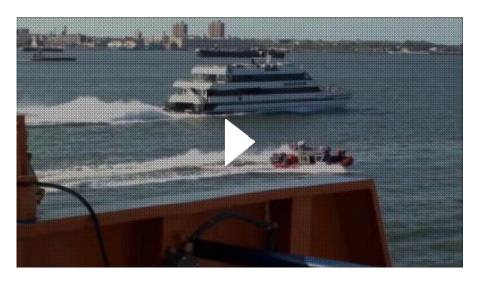
	Player Odd		
		l l	ا ا
		Heads	Tails
0.5 p Player Even	Heads	1, -1	-1,(1)
0.5 (1-p)	Tails	-1, <u>1</u>	1, -1

Security games

Adversary Terminal 1 Terminal 2 Defender $\frac{\sqrt{2}}{\sqrt{5}} (1-p)$ Terminal 2 $-5, \underline{5}$ $-1, \underline{1}$ Terminal 2 $-5, \underline{5}$ $2, -\underline{1}$

 $E_{AL}(T1) = 5(1-p) - 3p = 5-\delta p$

Ferry escort



Save the Wildlife, Save the Planet: Protection Assistant for Wildlife Security (PAWS)



Pure and mixed equilibria

	F	Player 2			
		\bullet 24,	1/4		
		Left	Right		
→ ¾ p Player 1	Up	3,1	0, 0		
$\rightarrow \frac{1}{4} (1-p)$	Down	0, 0	1,3		

$$E_{PL}(L) = P$$

$$E_{PL}(R) = 3(1-p)$$

Assumptions

	Player Odd		
		Heads	Tails
Player Even	Heads	1, -1	(-1,)
	Tails	-1,1	1, -1