



ITERATED ELIMINATIONS OF COMMITTED ACTIONS

· EACH FIRM WAS S.CONICAVE PAYOFF IN ITS QUANTITY $\frac{\partial u_i(q_i,q_{-i})}{\partial q_i} < 0 \iff q_i > \frac{1-q_{-i}-c}{2}$

ELIHINATE 9; > 1-c , TANNE 9; E[0,1-c]

 $\frac{\partial u_i(q_i,q_i)}{\partial q_i} > 0 \iff q_i < \frac{1 - q_i - c}{2}$

PENALTY SHOOTING

GNEAR PUBLIC GOOD

u; (a) = 1 2 a; -a;

SECOND-PRICE AUCTION V; >0 VACUATION BY I, =>

WRITE A BID

 $U_{i}(U_{i}, \alpha) = \begin{cases} U_{i} - \max_{j \neq i} \alpha_{j} \\ \frac{1}{1 + |\Delta_{i}| \max_{j \neq i} \alpha_{j}|} \end{cases}$

ke (1,1) / RETURN

 $9 \in \left(\frac{1-c}{4}, \frac{4-c}{2}\right) \longrightarrow \left(9^{lm}\right) \longrightarrow \frac{1-c}{3}$

O_A=H DONIALMED

= (k \sum_{i \neq i} a_i) - (1-k)a; = (OTHERS) - (500)
(PA9)

YOU ARE CONSTRAINED] Q; = U; GIVES AT

MUCH YOU WILL BID. I SOMETIMES MORE

· DOMINATED ACTION TO

GIVE ALOTHING: (A. 'S

. IMPOSING Q; ≥ m VALUE

YOU CAN MAXIMISE TOTAL RETURN OF THE PLYERS

SECOND - HIGHEST

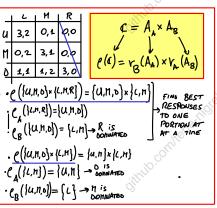
a; > max a;

LEAST THE UTILITY OF

BIDDING Q; >U, AND

WINS AND PHYS

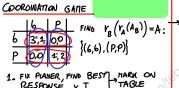
DECREASING IN O.



٦	╽᠘	B	_ م_	F	1			
	B	4, 3	0,2	0,0				
	' _	0,1	3,4	0,0				
	F	1,1	1,2	5,0				
	JY.	({B,P	(F}) =	: {B,P	;F}			
8	$\begin{cases} r_{B}([\beta P, F]) = \{B, P\} \\ e(c) = \{B, P, F\} \times \{B, P\} \\ f_{A}(\{B, P\}) = \{B, P\} \\ f_{B}(\{B, P, F\}) = \{B, P\} \end{cases}$							
	e	²(c)	= {B,	P}×{	8,ቦ}			
۷			مم لٍ					

		0.						
BERNUEIH								
-3	61	bz	63	64				
a_{1}	0,7	2,5	0 7:	91				
۵۷	5,2	3,3	5,2	0,1				
a 3	7.0	2,5	0,7	0,1				
04	0,0	0, -2	0,0	40,-1				
FASTER METHOD S								
1. EXCLUDE DOMINATED ACTIONS, ONCE PER								

1. EXCLUDE BOHINATED ACTIONS, ONCE PER PLAYER, UNTIL YOU CAN'T
2. FIND NASH EQUIUBRIA
artimo jorgi bacorolain
HUM



NO PURE NASH. EQ.

NE AT 12A + 12B

TRAFFIC LIGHTS

S 6,6 2,7

P 7,2 0,0

S | D

y 4.-1 -1.1

丁 -1,4 1:-1

 $\sum_{j=1}^{n} u_{j}(a) = \sum_{j=1}^{n} a_{j} - \sum_{j=1}^{n} a_{j}$

IF R > 1 , THE UTILTY OF THE

COMMUNITY INCREASES IN a.

YOU DON'T WANT TO

-> BID MORE THAN YOU ARE

· WEAKLY DOMINATED ACTION

TO BIO Q. " = V;

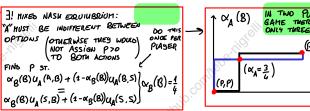
VAWATION

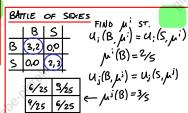
 $=\frac{h}{2}a,(ne-1)$

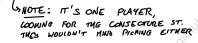
ONE LINE PER STRATEGY, PLOT UTIL'TY AS A

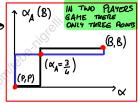
FUNCTION OF A

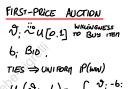








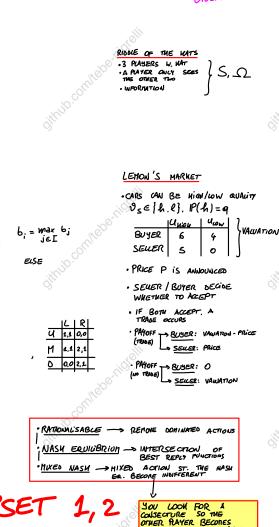




U; (0; ,6) = Action (gio) PROFILE	∫ v; -b; avgmax 6 ie T O
PROFILE	`

CROWDFUNDING										
		I	D		_					
	I	1, dg	٥, ځ.							
	<u>P_</u>	0,-1	0,0							
		Oli.		٦.						
,	J,	R	<u> </u>	┙	_					
	В	7,4	0,0	۰	a=Fis					
	S	1,0	8,3	٤	ALWAYS DOMINATES					
	E	2,0	2,0		_					
			l	١						

								Milo.		F	2,0	2,
b a	к РАРЕ	ir Sci	ssors	MARS	Avyi	GANE	AG D:	710N PRZ = (26,1	FILE 9, 1			
_	R	ρ	<u> </u>	_	I	D			. ,),	_Ce	3 7
R	0,0	-1,1	1,-1	<u>I</u>	1, 9g	- CA,O	17	, A _A	, ∂g=	12	, 2	.]
P	1,-1	0,0	-1 ,1	<u>P</u> _	0,-св	0,0	JIPI	(1/9	∂ ₃), 1)) -	o P	
<u>-</u>	-1,1	4,-1	0,0				\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	(((0 ₀ ,			<u>\</u>	



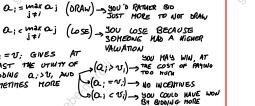
BURGUAR?

0,1/2

91 = PETICEIVED IP (ALARIN

IP(ROB)

Y = PERCEIVES



 $\left| P\left(\left(\left(\partial_0, \partial_{\mathcal{B}} \right), -\frac{\zeta_{\mathcal{B}}}{2} \right) \right) = 1 - \rho$

PSET 1,2

INDIFFERENT BETWEEN ACTIONS

