

**From:** Jeremy Rubin <[REDACTED]>  
**To:** "jeffrey E." <jeevacation@gmail.com>  
**Subject:** Re: BTC Game Theory  
**Date:** Mon, 19 Oct 2015 20:47:18 +0000

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For me I usually don't even have to try for the observer to get that impression, very effective strategy, minimal effort.

Sure, game theory has it's flaws (rational assumption in backwards induction being a major fail point), but can be useful for getting a handle on complex systems.

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[@JeremyRubin](#)

On Mon, Oct 19, 2015 at 4:45 PM, jeffrey E. <jeevacation@gmail.com> wrote:

one weakness in the game theory approach is it does not have an observer. . it is the right strategy to always play rock, , if you would like the observer to think you are an idiot

On Mon, Oct 19, 2015 at 4:40 PM, Jeremy Rubin <[REDACTED]> wrote:

Jeffrey, Turns out one of Martin's students, Julian is in my class. We chatted afterwards, I figured you'd like some of these links so forwarding...

I particularly recommend Fake Version Changing, Gap Mining, and Selfish mining, the other stuff is more introductory on Bitcoin's model.

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[@JeremyRubin](#)

----- Forwarded message -----

**From:** Jeremy Rubin <[REDACTED]>  
**Date:** Mon, Oct 19, 2015 at 4:39 PM  
**Subject:** BTC Game Theory  
**To:** [REDACTED]

Hi Julian,

Was great talking with you after class. I definitely think you should think about doing some Bitcoin research at PED -- here are some links to get you going (don't be overloaded by them, but there is good shit here! Maybe PED should do a reading group):

<http://www.jbonneau.com/doc/BMCNKF15-IEEESP-bitcoin.pdf> < General intro to btc

<https://freedom-to-tinker.com/blog/felten/game-theory-and-bitcoin/> < Game theory intro on btc

<https://freedom-to-tinker.com/blog/randomwalker/bitcoin-and-game-theory-were-still-scratching-the-surface/> < Game theory intro

<http://www.cs.huji.ac.il/~yoadlew/bitcoin.pdf> < Mining Game theory

<http://arxiv.org/abs/1311.0243> < selfish mining paper

<http://hackingdistributed.com/2014/01/15/detecting-selfish-mining/> < detecting selfish miners

<https://eprint.iacr.org/2015/796.pdf> < Generalizing the model of selfish mining

[https://dl.dropboxusercontent.com/u/131764/web/bitcoin\\_mind\\_the\\_gap.pdf](https://dl.dropboxusercontent.com/u/131764/web/bitcoin_mind_the_gap.pdf) < Gap mining

<https://bitcointalk.org/index.php?topic=1154520.0> < Fake version changing

My philosophical POV is that bitcoin is a lot like the bourgeois strategy in hawk dove -- it provides a common rule we can defect to reliably for resolving disputes. But there's so much more layered in how that rule gets made.

Cheers,

Jeremy

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