



BA/MA/SA:

Micropayment Channel's Game

Micropayment channels are the most prominent solution on the scalability issue of proof-of-work blockchains. However, their implementation on a decentralized manner seems to incorporate many problems. This opens the market for service providers to create a network on top of a blockchain to enable customers to transact on channels securely without directly using the blockchain.

In this thesis, you will study micropayment channels from a game theoretic perspective. You will encounter game theoretic definitions such as Nash equilibrium, price of anarchy, dominant strategy and you will attempt to model a network creation game for channels' service providers.



Requirements: Knowledge of game theory would be an advantage.

Interested? Please contact us for more details!

Contacts

- Zeta Avarikioti: zetavar@ethz.ch, ETZ G95
- Yuyi Wang: yuwang@ethz.ch, ETZ G94