

October 29, 2018

Graduate Course A2
“Algorithmic Game Theory” was replaced by

Blockchain and Incentives

Hitoshi Matsushima

松島齊の個人ホームページ: <http://www.econexp.org/hitoshi/>

box: https://account.box.com/login?redirect_url=%2Ffolder%2F0&logout=true

ID : hitoshisemi@yahoo.co.jp

PW : ab***m*****a

A2 金曜 3, 4 限 (314 演習室), 11 月 30 日 ~ 1 月 11 日 (計 14 回)

Office Hours (2018 年 4 月 ~ 2019 年 3 月): 要アポイントメント, 1 人 40 分, 10 時~12 時

論文ごとに担当者を決めてスライドを作って報告せよ

担当者の割り当て。担当者は担当論文をヤフーに即アップせよ。

報告のシラバスを作成して、事前にアップするべし。

担当者は、プロジェクター、PCを準備すること。

参考書：「仮想通貨の教科書」ナラヤナン、ボノー（2016）

輪読 : Blockchain and Incentives

Reading List (Incomplete)

Abadi, J. and M. Brunnermeier (2018): “Blockchain Economics”.

Al-Bassam, M., A. Sonnino, and V. Buterin (2018): "Fraud Proofs: Maximizing Light Client Security and Scaling Blockchains with Dishonest Majorities".

Athey, S., I. Parashkevov, V. Sarukkai, and J. Xia. (2016): "Bitcoin Pricing, Adoption, and Usage: Theory and Evidence."

Biais, B., C. Bisiere, M. Bouvard, and C. Casamatta (2017): "The Blockchain Folk Theorem."

Böhme, R., N. Christin, B. Edelman, and T. Moore (2015): “Bitcoin: Economics, Technology, and Governance.” *Journal of Economic Perspectives*, 29(2): 213–238.

Budish, E. (2018): "The economic limits of bitcoin and the blockchain."

Budish, E., P. Cramton, and J. Shim. 2015. “The High-Frequency Trading Arms Race: Frequent Batch Auctions as a Market Design Response.” *Quarterly Journal of Economics*, 1031.

Buterin, V., Z. Hitzig, and G. Weyl (2018): "Liberal Radicalism: Formal Rules for a Society Neutral among Communities."

Catalini, C. and J. Gans (2016): "Some Simple Economics of the Blockchain."

Cong, L. W. and Z. He (2017): "Blockchain Disruption and Smart Contracts."

Cong, L. W., Z. He, and J. Li. (2018): "Decentralized mining in centralized pools."

Easley, D., M. O'Hara, and S. Basu (2017): "From Mining to Markets: The Evolution of Bitcoin Transaction Fees."

Eguia, J. and D. Xefteris (2018): "Implementation by Vote-Buying Mechanisms," 2018.

Gui, G., A. Hortaçsu, and J. Tudón (2018): "A Memo on the Proof-of-Stake Mechanism."

Hitzig, Zoe, "Bridging the 'Normative Gap': Mechanism Design and Social Justice," 2018.

Huberman, G., J. D. Leshno, and C. Moallemi (2017): "Monopoly without a Monopolist: An Economic Analysis of the Bitcoin Payment System."

Lalley, Steven P. and E. Glen Weyl, "Nash Equilibria for Quadratic Voting," 2018.

Lavi et al. (2017), Redesigning Bitcoin's fee market

Lerner, J, and J. Tirole, 2002, “Some Simple Economics of Open Source”, The Journal of Industrial Economics, 2, 197–234.

Li et al. (2018, IEEE), Transaction Queuing Game in Bitcoin BlockChain

Malinova, K., and A. Park (2017) : "Market Design with Blockchain Technology."

Nakamoto, S. (2008): "Bitcoin: A peer-to-peer electronic cash system."

Philippon, T. (2016): "The FinTech Opportunity."

Saleh, F. (2018): "Volatility and Welfare in a Crypto Economy."

Saleh, F. (2018): "Blockchain Without Waste: Proof-of-Stake."

Yao (2018, Nov. 6), An Incentive Analysis of some Bitcoin Fee Designs

Yermack, D., 2017, “Corporate Governance and Blockchains”, Review of Finance, 21(1), 7–31.

今後のスケジュール（土日）

1月13、14、26、27日。10時～17時（第4共同）

13日（土曜）

1回目（10時～13時）：General

奥村さんがblockchain一般について解説：

Nakamoto, S. (2008): "Bitcoin: A peer-to-peer electronic cash system."

Böhme, R., N. Christin, B. Edelman, and T. Moore (2015): "Bitcoin: Economics, Technology, and Governance." *Journal of Economic Perspectives*, 29(2): 213–238.

2回目（14時～17時）：Multiplicity

Biais, B., C. Bisiere, M. Bouvard, and C. Casamatta (2017): "The Blockchain Folk Theorem."

14日（日曜）

3回目（10時～13時）：**Contestability**

Huberman, G., J. D. Leshno, and C. Moallemi (2017): "Monopoly without a Monopolist: An Economic Analysis of the Bitcoin Payment System."

4回目（14時～17時）：**Cartel**

Cong, L. W. and Z. He (2017): "Blockchain Disruption and Smart Contracts."

26日（土曜）

5回目（10時～13時）：**Financial System?**

Abadi, J. and M. Brunnermeier (2018): "Blockchain Economics".

6回目（14時～17時）：**Arm Race in PoW**

Budish, E. (2018): "The economic limits of bitcoin and the blockchain."

27日 (日曜)

7回目 (10時～13時) : PoS

Saleh, F. (2018): "Blockchain Without Waste: Proof-of-Stake."

Gui, G., A. Hortaçsu, and J. Tudón (2018): "A Memo on the Proof-of-Stake Mechanism."

8回目 (14時～17時) : Volatility

Saleh, F. (2018): "Volatility and Welfare in a Crypto Economy."