

Blockchain for the industry: Implications for market players, regulators and researchers

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The session aims to study the forthcoming research perspectives on regulation for blockchain and smart contract. Blockchain and Distributed Ledger Technologies (DLT) have the potential to disrupt many applications, including payments (e.g., Facebook Libra), telecom networks (e.g., connectivity marketplaces or edge computing), IoT or identity management. However, this disruption will likely come with great regulatory challenges. Game theoretic aspects of blockchain and smart contract have started to catch the attention of academia ([1][2]). The valuation question as studied by [3] and [4] is also an important matter. As stated, regulation will be a great challenge for blockchain adoption in the industry, but blockchain technologies are also expected to have a great influence on the way regulation is implemented ([5], [6]). There are a number a questions arising from those statements, and we hope this area will keep attracting lots of interests.

This special session provides a forum for researchers and practitioners investigating the economic and regulatory challenges for blockchain and smart contract. The session will feature non-academic presentations from market players, regulators as well as academic presentations. A few papers will be accepted for presentation in the academic session within this special session. We hope to create a stimulating environment in which people with different perspectives will be able to exchange on the most recent challenges posed by regulation and industry use of blockchains.

General topics to be tackled in this session are related to Telecom, Finance, Law and Health (given the recent global situation). Examples of topics are (but not limited to):

- crypto-euro/dollar/yuan and stable coins
- programmable money
- KYC for Blockchain services
- Self-sovereign identity / health data
- Legal roadblocks for smart-contracts
- Implication of blockchains on regulators
- Health related blockchain use cases

Submission Instruction

All submissions must be done by email to louis.bertucci@institutlouisbachelier.org.

Given the current circumstances the conference will be held online on September 28th-30th 2020. The deadline for submission is **June 30th 2020**. Notification of acceptance will be sent by July 7th 2020. Talk proposals should include a title, a short abstract and a PDF document featuring either a 1-page abstract, a short paper from maximum 5 pages, or a slide deck file.

An author of an accepted paper is required to register for the conference at the author rate and the paper must be presented by an author of that paper at the conference unless the session co-Chairs grant permission for a substitute presenter before the conference. Accepted and presented short papers will be published in the IEEE Xplore Digital Library.

More information can be found on the conference website (<https://brains.dnac.org>), on the special session section.

References

- [1] Biais, Bruno, Christophe Bisiere, Matthieu Bouvard, and Catherine Casamatta, 2019, The blockchain folk theorem, *The Review of Financial Studies* 32, 1662–1715.
- [2] Huberman, Gur, Jacob Leshno, and Ciamac C Moallemi, 2017, Monopoly without a monopolist: An economic analysis of the bitcoin payment system, Bank of Finland, Research Discussion Paper.
- [3] Biais, Bruno, Christophe Bisiere, Matthieu Bouvard, and Catherine Casamatta, and Albert J Menkveld, 2018, Equilibrium bitcoin pricing, Available at SSRN 3261063.
- [4] Pagnotta, Emiliano, and Andrea Buraschi, 2018, An equilibrium valuation of bitcoin and decentralized network assets, Available at SSRN 3142022.
- [5] Wright, Aaron and De Filippi, Primavera, 2015, Decentralized Blockchain Technology and the Rise of Lex Cryptographia, Available at SSRN 2580664.
- [6] Davidson, Sinclair and De Filippi, Primavera and Potts, Jason, 2016, Economics of Blockchain, Available at SSRN 2744751