

Book Anthology CFP: Blockchain Economics: Implications of Distributed Ledger Technology

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Book Chapter Topics

The aim of this book is to provide a comprehensive investigation of the economic implications of distributed ledger technologies. Distributed ledgers are a new form of a distributed software architecture where decentralized agreements on a ‘shared state’ of truth of transactional data can be established in a network of untrusted and anonymous participants. The distributed ledger is a tamper-proof, publicly or privately auditable (traceable), and irreversible, which makes it a ‘trust machine’ with which people can share value, such as currency, directly and securely without any intermediary. A blockchain is a type of distributed ledger technology in which confirmed and validated batches of transactions are held in blocks, and the blocks are linked (chained) in a tamper-resistant append-only chain which starts with a genesis block and where each block contains a hash of the prior block in the chain. An important potential economic consequence of widespread distributed ledger adoption is that the corporate and governmental structure of society could shift to one that is much more computationally-based, and thus has a diminished need for human-operated brick-and-mortar institutions. Since distributed ledger technologies may reduce or eliminate asymmetric information between peers, hierarchical organizational structures may be removed. The implication is that distributed ledger technology may be able to update the only sectors that have not yet been fully re-engineered for the Internet era: financial services, and legal and governance services. This book investigates the economic implications of distributed ledger technology in a comprehensive range of topics.

Suggested Topics (chapters are invited on these or any other related topics)

- Competitive Markets, Price Discovery, and Resource Allocation
- Cryptographic Asset Registries and Consensus Algorithms
- Debt, Capital-raising, Credit, Project Finance, Capital Budgeting
- Externalities, Unintended Consequences, and Shocks
- Global Impact (Regulatory Arbitrage, National Specialization, Financial Inclusion)
- Income (Distribution, Incentives, Future of Work)
- ICOs (Initial Coin Offerings), Token Sales, and Crowdfunding
- Institutions (Role, Purpose, and Future of Institutions)
- Long-tail (Personalized) Economics and Governance Services
- Monetary Systems and Network Economics
- Open-Source, Commons Goods, Utilities
- Public and Private Blockchains; Free versus Regulated Markets
- Risk, Scarcity, and the Size of the Firm
- Value Creation (Alignment between Rewards and Incentives)