Blockchain Technology Symposium 2018 (BTS' 18) - from Hype to Reality
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Fields Institute
Toronto, Ontario, Canada

General Chair
Pawel Pralat - Ryerson University
Program Chair
Atefeh Mashatan - Ryerson University
Organizing Committee
Ayse Bener - Ryerson University
Bogumil Kaminski - Warsaw School of Economics
Przemyslaw Szufel - Warsaw School of Economics

Overview

Blockchain technology has solved a fundamental problem of how one can prove, and effectively manage, the ownership of a digital asset in an environment where everything can be copied or modified. With this problem solved, the Internet can be used as the foundation to build out large-scale transaction processing platforms. This fundamental breakthrough has created a lot of interest and investment in both academia and industry. Due to the great potential in revolutionizing many industry applications, there is a lot of hype and enthusiasm in the industry about blockchain technology. However, there remains a variety of challenges ranging from technological to business to cultural obstacles that need to first be addressed before blockchain technology realizes its full potential. Academia and industry need to work hand-in-hand to take this promising discourse *from hype to reality*.

Blockchain Technology Symposium 2018 (BTS' 18) is a forum where academic researchers, industry professionals, and decision makers come together to present recent advancements, discuss adoption barriers, and explore future roadmaps surrounding blockchain and its related technologies such as consensus algorithms, smart contracts, and distributed ledger technologies.

Program

With the goal of enhancing the research dialogue between academia and industry, the BTS' 18 program will consist of contributed talks, workshops, keynotes, panel of experts, and breakout sessions.

- Contributed Talks - Presenters are invited to submit structured abstracts to be considered for short research talks or business presentations. The abstract will be reviewed by organizing committee and invited reviewers.
- Workshops - Hands-on workshops where participants learn about practical technical aspects of blockchain and related technologies.
- Keynotes and panel of experts - Presenters are invited by the organizing committee. However, you can contact the organizing committee with your suggestions as well.

The focus is to foster academia/industry research dialogue and the talks are chosen based on their quality and impact. There are no proceedings and, as a result, the talks can appear in other venues. In particular, we accept high quality presentations that are already published. In addition, selected presenters will be invited to submit a research paper on blockchain technology to a special issue of Internet Mathematics devoted to this event.

Areas of interest include, but are not limited to:

- Theoretical advancement of blockchain and related technologies
- Practical maturity and performance optimization
- Blockchain technology enabling security, privacy and trust
- Integration roadblocks and widespread adoption challenges
- Applications of blockchain technology in smart cities, vehicles, buildings
- Analysis and modelling of blockchain transaction graph topology
- Enhancing robustness, interoperability and stability of blockchain and related technologies
- Vulnerabilities of blockchain technology
- Smart contracts and their role in industry
- Distributed consensus mechanisms
- Blockchain and Internet-of-Things (IoT) solutions
- Blockchain and Edge, Cloud Computing solutions
- Use of blockchain technology in vehicular and mobile ad hoc networks solutions
- Blockchain schemes in energy sector, healthcare, financial industry, real estate, law, e-Government