

7th Risk Center Dialogue Event on

DECIPHERING BLOCKCHAIN Applications, Impact and Risks

Friday, 1 Feb. 2019, 13:15 – 18:00, HG E7, ETH Zurich

As blockchain is set to revolutionize industry sectors as well as the economy as a whole, there is still a lack of clarity on the terminology and its current integration into real-life applications.

We will assess the current status of the technology and its integration across different systems and industries and highlight the impact, risks and challenges – ranging from technical to economic and to regulatory aspects.

Registration:

Registration via www.riskcenter.ethz.ch/events/dialogue-event.html.

This event is free of charge.

Programme

Friday, 1 Feb. 2019, 13:15 – 18:00, HG E7, ETH Zurich

13:15 Opening Remarks

Prof. Lothar Thiele, Associate Vice President for Digital Transformation, ETH Zurich

13:30 Blockchain Basics and Examples: eCHF and eVoting

Prof. Roger Wattenhofer, Distributed Computing Group, ETH Zurich

14:00 Blockchains - From Technology to Use Cases

Björn Tackmann, IBM Research Zurich

14:30 Distributed Ledger Technology for Clearing and Settlement

Silvan Villiger, Senior Product Architect, Digital Asset

Simon Meier, Director of Engineering, Digital Asset

15:00 Coffee Break - Experience Blockchain with ETH Start-ups

15:30 Blockchain@SBB: The Beauty of a Common Immutable Truth

Vitus Ammann, Digitalization & Strategy, SBB AG

16:00 Distributed Ledger in Renewable Energy Transactions

Robert Schwarz, Principal, Pöry Energy Consulting

**16:30 How Much Should we Trust and how Much Should we Distribute?
Blockchains, TEEs and More**

Prof. Srdjan Capkun, System Security Group, ETH Zurich

17:00 Blockchain, Contracts and Super-Property

Prof. Stefan Bechtold, Center for Law and Economics, ETH Zurich

17:30 Concluding Discussion

18:00 Aperitif (Foyer E Floor)

Abstracts

Blockchains - From Technology to Use Cases, Björn Tackmann, IBM Research Zurich

Blockchains have been proposed as a solution to a wide variety of use case problems: from secure payments through supply chain management consistency and food traceability to responsible mining of materials, and many more. This talk discusses how use case requirements match (or do not match) what blockchain systems provide in terms of decentralization, privacy, and trust.

Distributed Ledger Technology for Clearing and Settlement, Silvan Villiger, Senior Product Architect, Digital Asset, Simon Meier, Director of Engineering, Digital Asset

Clearing and settlement is a key process in our financial system. Reducing the associated risks initiated the evolution of manual, time-consuming, and error-prone clearing and settlement processes to highly automated and regulated central clearing houses. Distributed ledger technology provides a generational opportunity to continue this evolution and further reduce clearing and settlement risks, whilst also lowering the cost of subsequent innovations. In this talk, Digital Asset provides an overview of this opportunity, their distributed ledger technology, and their customer projects capitalizing on it.

Blockchain@SBB: The Beauty of a Common Immutable Truth, Vitus Ammann, Digitalization & Strategy, SBB AG

In 2018 a dedicated team at SBB looked thoroughly into the chances and risks Blockchain technologies offer to the company and the industry. The talk will demonstrate how SBB tackled the challenges of a proof of concept and how it will proceed towards implementation of most promising applications.

Distributed Ledger in Renewable Energy Transactions, Robert Schwarz, Principal, Pöyry Energy Consulting

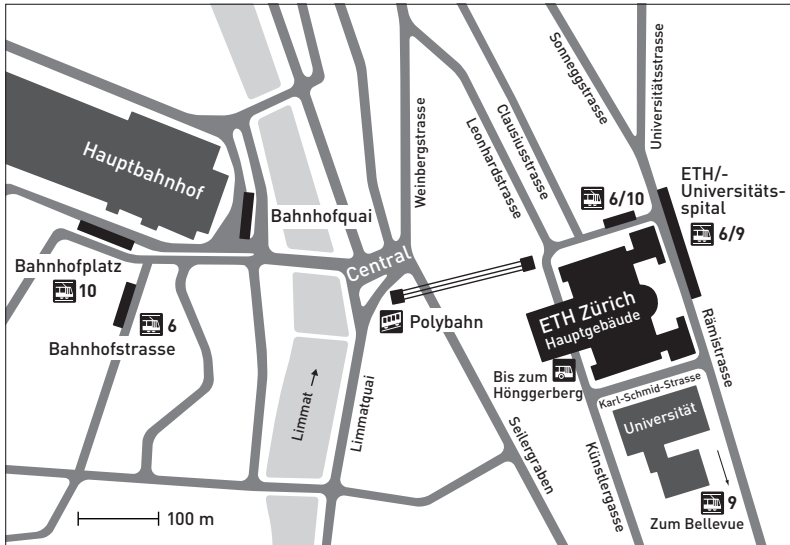
The new energy world will be highly decentralized with billions of new assets, we see already today a huge and fast growing renewable market. The number of asset valuation is increasing steadily, for transactions and financing. The objective to use distributed ledger technology (DLT) in renewable energy transaction is to enable near real time asset valuation of all - even small scale generation units. By providing instant evaluation of generation assets in a marketplace, both investors and sellers gain transparency on the market and obtain credible, objective information.

How Much Should we Trust and how Much Should we Distribute? Blockchains, TEEs and More, Prof. Srdjan Capkun, System Security Group, ETH Zurich

Blockchains are distributed almost by definition. But a number of security properties and applications cannot be distributed. Furthermore, different services that blockchains and blockchain applications rely on cannot be (easily) distributed. This talk will address these issues, highlight some limits to decentralized nature of blockchains and discuss alternatives.

Blockchain, Contracts and Super-Property, Prof. Stefan Bechtold, Center for Law and Economics, ETH Zurich

Combined with smart contracts, distributed ledger systems promise to enable a distributed recording of transactions that result from an automatic enforcement of contracts. This presentation will analyse the implications for the laws of contract, property, and everything in between.



Map

ETH Zürich, Main Building, Rämistrasse 101, 8032 Zürich

Travelling by public transport from Zurich Central Station

- From the “Bahnhofstrasse/HB”: Tram no. 6 (towards **Zoo**) as far as the “ETH/Universitätsspital”.
- From the “Bahnhofplatz/HB”: Tram no. 10 (towards **Airport** or **Oerlikon** station) as far as the “ETH/Universitätsspital”.
- Walk over to “Central” and take the Polybahn (departs every three minutes) to the Polyterrasse.

You will need a ticket for zone 110 (city of Zurich).

Contact

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