

Blockchain Kaigi 2023 (BCK23) Program (Final version)

The Integrated Innovation Building (IIB) at the RIKEN Kobe Campus.

October 28th -29th, 2023

October 28th (Sat) Morning

Opening Remarks, including Announcement of Proceedings (9:00-9:10)

Yuichi Ikeda (Kyoto University)

Keynote Speech (9:10-9:50) (Online, West Coast: 27th 17:10, East Coast: 27th 20:10) SC:

Yuichi Ikeda (Kyoto University)

(K1) Aanchal Malhotra (Ripple Lab Inc.) [30 min Talk, 10 min Q&A]

“The Future Outlook of the XRPL”

Invited Talks (9:50-11:10) SC: Tetsuo Hatsuda (RIKEN iTHEMS)

(I1) Victor Fang (AnChain.AI) [30 min Talk, 10 min Q&A]

“How Artificial Intelligence Disrupts Status Quo of Web3 Security”

(I2) Tsuyoshi Ide (IBM Thomas J. Watson Research Center) [30 min Talk, 10 min Q&A]

“Decentralized Collaborative Machine Learning Framework with Democracy, Diversity, and Privacy”

General Talks (11:10-12:00) SC: Tetsuo Hatsuda (RIKEN iTHEMS)

(G1) Claudio J. Tessone (University of Zurich) [15 min Talk, 10 min Q&A]

“Deceptive Trading in Decentralised Finance and NFT Markets: A blockchain analytics approach”

(G2) Hideaki Aoyama (Kyoto University/RIETI) [15 min Talk, 10 min Q&A]

“Where are the Cryptoasset nodes located? -Eye-Map identification of the longitude of nodes-”

Lunch break (12:00-13:40)

October 28th (Sat) Afternoon

General Talks (13:40-14:55) SC: Akihiro Fujihara (Chiba Institute of Technology)

(G3) Masaki Sakurai (Chiba Institute of Technology) [15 min Talk, 10 min Q&A]

“Proposal of Fact-Checking Registry using Bitcoin SV”

(G4) Yu Kimura (Interoperability Labs Ltd.) [15 min Talk, 10 min Q&A]

“Theory of EDISON-X order automation using several machine learning approaches”

(G5) Ryosuke Nakazawa (Chiba Institute of Technology) [15 min Talk, 10 min Q&A]

“Proposal of fact-checking DAO and its experimental trials”

Break (14:55-15:15)

General Talks (15:15-16:30) SC: Claudio J. Tessone (Univ. of Zurich)

(G6) Shinya Hirata (Kyushu University) [15 min Talk, 10 min Q&A]

“Bitcoin Transactions Stochastic Model Simulation”

(G7) Zheng Nan (Yamanashi Gakuin University) [15 min Talk, 10 min Q&A]

“How did bitcoin markets evolve: A comparison with the USD/EUR foreign exchange spot market?”

(G8) Abhijit Chakraborty (Kyoto University) [15 min Talk, 10 min Q&A]

“Dynamic relationship between XRP price and correlation tensor spectra of the transaction network”

October 29th (Sun) Morning

Keynote Speech (9:00-9:40) (Online, West Coast: 28th 17:00, East Coast: 28th 20:00) SC: Tomoyuki Shirai (Kyushu University)

(K2) Wakefield Scott Stornetta (Creative Destruction Lab) [30 min Talk, 10 min Q&A]

“The Blockchain: Past, Present, and Future”

Invited Talks (9:40-10:20) SC: Tomoyuki Shirai (Kyushu University)

(I3) Hiroyoshi Miwa (Kwansei Gakuin University) [30 min Talk, 10 min Q&A]

“Developing human resources capable of using blockchain technology”

General Talks (10:20-11:35) SC: Yoshimasa Hidaka (KEK Theory Center)

(G9) Taishi Nakai (Kyoto University) [15 min Talk, 10 min Q&A]

“Towards Mathematical Formulation of the Blockchain Trilemma”

(G10) Gopikrishnan Muraleedharan (Macquarie University) [15 min Talk, 10 min Q&A]

“Proof-of-work consensus by quantum sampling”

(G11) Tsuyoshi Hirayama (IBM Japan, Ltd.) [15 min Talk, 10 min Q&A]

“Breakthrough of Crypto Currency Derivatives and Quantum Finance Utilization”

Lunch break (11:35-13:15)

October 29th (Sun) Afternoon

Invited Talk (13:15-15:15) SC: Abhijit Chakraborty (Kyoto University)

(I4) Shoji Kasahara (Nara Institute of Science and Technology) [30 min Talk, 10 min Q&A]

“Modeling and Analysis of Bitcoin Mining Mechanism –A Queueing Theoretical Approach–”

(I5) Wang Qin (CSIRO) [30 min Talk, 10 min Q&A]

“Tokenomics and Beyond”

(I6) Shingo Fujimoto (Data & Security Research laboratory, Fujitsu Limited.) [30 min Talk, 10 min Q&A]

“Smart contract-based automated token economy”

Break (15:15-15:35)

General Talks (15:35-16:00) SC: Yuichi Ikeda (Kyoto University)

(G12) Akihiro Fujihara (Chiba Institute of Technology) [15 min Talk, 10 min Q&A]

“Investigating the probability distribution of average block time in proof-of-stake consensus algorithm using extreme value theory”

Invited Talk (Company Session in Japanese) (16:00-17:00) SC: Yuichi Ikeda (Kyoto University)

(I7) Syuga Yamamoto (Gaiax Co.Ltd) [20 min Talk, 10 min Q&A]

「日本に馴染む DAO の形」

(I8) Mayu Yokoyama (Nippon Yusen Kabushiki Kaisha) [20 min Talk, 10 min Q&A]

「日本郵船 社内有志 DAO 活動の紹介」

Closing Remark, including Announcement of Proceedings (17:00-17:10)

Tetsuo Hatsuda (RIKEN iTHEMS)