

DPM: 16th International Workshop on Data Privacy Management

CBT: 5th International Workshop on Cryptocurrencies and Blockchain Technology

Friday, 8th October 2021

08:45 – 10:15 (CEST — UTC+02:00)

SESSION 1

- **Opening Remarks (workshop chairs)**
- **DPM#1 (Regular Papers)**
 - **D1.1 SPGC: An Integrated Framework of Secure Computation and Differential Privacy for Collaborative Learning.** *Kazuki Iwahana (Osaka University, **Japan**), Naoto Yanai (Osaka University, **Japan**), Jason Paul Cruz and Toru Fujiwara. (10 min. recording)*
 - **D1.2 Best Security Measures to Reduce Cyber-incident Risks.** *Hiroaki Kikuchi (Meiji University, **Japan**), Michihiro Yamada, Kazuki Ikegami and Koji Inui. (10 min. recording)*
 - **D1.3 Synthesizing Privacy-Preserving Location Traces Including Co-locations.** *Jun Narita (Shizuoka University, **Japan**), Yayoi Suganuma, Masakatsu Nishigaki, Takao Murakami and Tetsushi Ohki. (10 min. recording)*
 - **D1.4 Q&A (live)**
- **DPM#2 (Short Papers)**
 - **D2.1 A New Privacy Enhancing Beacon Scheme in V2X Communication.** *Takahito Yoshizawa (KU Leuven, **Belgium**), Dave Singelee and Bart Preneel. (5 min. recording)*
 - **D2.2 Next Generation Data Masking Engine.** *Micha Moffie (IBM Haifa Research Labs, **Israel**), Ariel Farkash, Sigal Assaf and Dan Mor (5 min. recording)*
 - **D2.3 Towards a Formal Approach for Data Minimization in Programs.** *Florian Lanzinger (Karlsruhe Institute of Technology, **Germany**) and Alexander Weigl (5 min. recording)*
 - **D2.4 Q&A (live)**

10:15 – 10:30 (CEST — UTC+02:00)

BREAK

10:30 – 11:45 (CEST — UTC+02:00)

SESSION 2

- **DPM#3 (Full Papers)**
 - **D3.1 Interdependent privacy issues are pervasive among third-party applications.** *Liu Shuaishuai (CrySyS Lab Budapest University of Technology and Economics, **Hungary**), Barbara Herendi and Gergely Biczok. (10 min. recording)*
 - **D3.2 A k-anonymised Federated Learning Framework with Decision Trees.** *Saloni Kwatra (Umeå University, **Sweden**) and Vicenc Torra. (10 min. recording)*
 - **D3.3. Anonymizing Machine Learning Models.** *Abigail Goldsteen (IBM Research, **Israel**), Gilad Ezov, Ron Shmelkin, Micha Moffie and Ariel Farkash. (10 min. recording)*
 - **D3.4 Q&A (live)**
- **CBT#1 (Short Papers)**
 - **C1.1 Filling the Tax Gap via Programmable Money.** *Dimitris Karakostas (University of Edinburgh, **UK**) and Aggelos Kiayias. (5 min. recording)*
 - **C1.2 Impact of delay classes on the data structure in IOTA.** *Andreas Penzkofer (IOTA, **Germany**), Olivia Saa (IOTA, Portugal) and Daria Dziubaltowska (IOTA, Poland). (5 min. recording)*
 - **C1.3. Secure Static Content Delivery for CDN using Blockchain Technology.** *Pier Paolo Tricomi (University of Padova, **Italy**), Mauro Conti and Vinod P. (5 min. recording)*
 - **C1.4 Q&A (live)**

11:45 – 12:45 (CEST — UTC+02:00)

LUNCH BREAK

12:45 – 14:00 (CEST — UTC+02:00)

SESSION 3

- **CBT#2 (Full Papers)**
 - **C2.1 Augmenting MetaMask to support TLS-endorsed Smart Contracts.** *Ulrich Gellersdörfer (Technical University of Munich, Germany), Jonas Ebel and Florian Matthes.* (10 min. recording)
 - **C2.2 Virtual ASICs: Generalized Proof-of-Stake Mining in Cryptocurrencies.** *Chaya Ganesh, Claudio Orlandi (Aarhus University, Denmark), Daniel Tschudi and Aviv Zohar.* (10 min. recording)
 - **C2.3 Asymmetric Asynchronous Byzantine Consensus.** *Christian Cachin and Luca Zanolini (University of Bern, Switzerland)* (10 min. recording)
 - **C2.4 Q&A** (live)
- **CBT#3 (Full/Short Papers)**
 - **C3.1 Smart Contracts for Incentivized Outsourcing of Computation.** *Alptekin Küpçü (Koç University, Turkey) and Reihaneh Safavi-Naini (Calgary University, Canada)* (10 min. recording)
 - **C3.2 Lattice-Based Proof-of-Work for Post-Quantum Blockchains.** *Rouzbeh Behnia, Eamonn W. Postlethwaite (Royal Holloway, University of London, UK), Muslum Ozgur Ozmen and Attila Altay Yavuz.* (5 min. recording)
 - **Q&A** (live)

14:00 – 14:30 (CEST — UTC+02:00)

BREAK

14:30 – 15:30 (CEST — UTC+02:00)

SESSION 4

- **CBT#4 (Full/Short Papers)**
 - **C4.1 Using Degree Centrality to Identify Market Manipulation on Bitcoin.** *Daiane M. Pereira (Universidade Federal do Rio de Janeiro, Brazil) and Rodrigo S. Couto.* (10 min. recording)
 - **C4.2 Anonymous Sidechains.** *Foteini Baldimtsi (George Mason University, US), Ian Miers and Xinyuan Zhang.* (10 min. recording)
 - **C4.3 Blockchain-based Two-Factor Authentication for Credit Card Validation.** *Suat Mercan, Mumin Cebe (Marquette University, US), Kemal Akkaya and Julian Zuluaga.* (5 min. recording)
 - **C4.4 Q&A** (live)
- **CBT#5/DPM#4 (Full/Position Papers)**
 - **C5.1 Homomorphic decryption in blockchains via compressed discrete-log lookup tables** *Panagiotis Chatzigiannis (George Mason University, US), Konstantinos Chalkias and Valeria Nikolaenko.* (5 min. recording)
 - **D4.1 Quantitative Rubric for Privacy Policy Analysis.** *Paul O'Donnell, Joe Harrison (Virginia Tech Hume Center, US), Joshua Lyons, Lauren Anderson, Lauren Maunder, Alan J. Michaels (Virginia Tech Hume Center, US)* (10 min. recording)
 - **D4.2 Rethinking the Limits of Mobile Operating System Permissions.** *Brian Krupp (Baldwin Wallace University, US)* (10 min. recording)
 - **D4.3 Q&A** (live)

15:30 – FAREWELL (CEST — UTC+02:00)