



# Data Privacy Management 12th International Workshop



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## PROGRAM

### THURSDAY September 14

(Room: *Big Time*)

09:00-09:15 **General Welcome**

09:15-10:30 **Keynote Talk**

**Privacy models and disclosure risk: integral privacy**

By Vicenç Torra (University of Skövde, Sweden)

10:30-11:00 **Coffee Break**

11:00-12:30 **Session 1: Privacy, logics, and computational models**

(Room: *Big Time*, Chair: Joaquin Garcia-Alfaro)

11:00-11:30 **A Proof Calculus for Attack Trees in Isabelle.** By Florian Kammüller (Middlesex University London and TU Berlin).

11:30-12:00 **Confidentiality of Interactions in Concurrent Object-Oriented Systems.** By Olaf Owe (University of Oslo), Toktam Ramezanifarkhani (University of Oslo).

12:00-12:30 **Using Oblivious RAM in Genomic Studies.** By Nikolaos Karvelas (TU Darmstadt), Andreas Peter (University of Twente), Stefan Katzenbeisser (TU Darmstadt).

12:30-14:00 **Lunch**

14:00-15:30 **Session 2: Privacy and encrypted search**

(Room: *Big Time*, Chair: Guillermo Navarro-Arribas)

14:00-14:30 **Towards Efficient and Secure Encrypted Databases: Extending Message-Locked Encryption in Three-Party Model.** By Yuuji Furuta, Naoto Yanai (Osaka University), Masashi Karasaki, Katsuhiko Eguchi (Nippon Telegraph and Telephone West Corporation), Yasunori Ishihara, Toru Fujiwara (Osaka University).

14:30-15:00 **Searchable Encrypted Relational Databases: Risks and Countermeasures.** By Mohamed Ahmed Abdelraheem (SICS), Tobias Andersson (SICS), Christian Gehrman (Lund University).

15:00-15:30 **Private verification of access on medical data: an initial study.** By Thais Bardini Idalino (University of Ottawa), Dayana Spagnuolo (University of Luxembourg), Jean Everson Martina (Universidade Federal de Santa Catarina).

15:30-16:00 **Coffee Break**

16:00-17:30 **Session 3: Data Privacy, data mining, and applications**

(Room: *Big Time*, Chair: Florian Kammüller)

16:00-16:25 **Default Privacy Setting Prediction by Grouping User's Attributes and Settings Preferences.** By Toru Nakamura (KDDI Research, Inc.), Welderufael Berhane Tesfay (Goethe

University Frankfurt), Shinsaku Kiyomoto (KDDI Research, Inc.), Jetzabel Serna (Goethe University Frankfurt).

16:25-16:50  **$\delta$ -privacy: Bounding Privacy Leaks in Privacy Preserving Data Mining.** By Zhizhou Li (The Voleon Group), Ten H. Lai (The Ohio State University).

16:50-17:15 **Threshold Single Password Authentication.** By Devriş İşler (Koç University), Alptekin Küpçü (Koç University).

17:15-17:40 **Towards A Toolkit for Utility and Privacy-Preserving Transformation of Semi-structured Data Using Data Pseudonymization.** By Saffija Kasem-Madani, Michael Meier, Martin Wehner (University of Bonn).

18:30-20:00 **Aperitif in Gamle Museet**

## **FRIDAY September 15**

09:00-10:30 **Session 4: User privacy**

(Room: *Big Time*, Chair: Jordi Herrera-Joancomarti)

09:00-09:30 **Privacy Dashcam. Towards Lawful Use of Dashcams Through Enforcement of External Anonymization.** By Paul Wagner (Karlsruhe Institute of Technology, KIT), Pascal Birnstill (Fraunhofer IOSB, FIOSB), Erik Krempel (FIOSB), Sebastian Bretthauer (KIT), Jürgen Beyerer (FIOSB).

09:30-10:00 **DLoc: Distributed Auditing for Data Location Compliance in Cloud.** By Mojtaba Eskandari (University of Trento), Bruno Crispo (University of Trento), Anderson Santana De Oliveira (SAP).

10:00-10:30 **Inonymous: Anonymous Invitation-Based System.** By Sanaz Taheri Boshrooyeh (Koç University), Alptekin Küpçü (Koç University).

10:30-11:00 **Coffee Break**

11:00-12:40 **Session 5: Applied cryptography and privacy**

(Room: *Big Time*, Chair: Cristina Perez-Sola)

11:00-11:30 **PCS, a privacy-preserving certification scheme.** By Nesrine Kaaniche (Telecom SudParis, TSP), Maryline Laurent (TSP), Pierre-Olivier Rocher (TSP), Christophe Kiennert (TSP), Joaquin Garcia-Alfaro (TSP).

11:30-12:00 **Order-Preserving Encryption Using Approximate Integer Common Divisors.** By James Dyer (University of Manchester), Martin Dyer (University of Leeds), and Jie Xu (University of Leeds).

12:00-12:30 **Privacy-Preserving Deterministic Automata Evaluation with Encrypted Data Blocks.** By Giovanni Di Crescenzo (Vencore Labs), Brian Coan (Vencore Labs), Jonathan Kirsch (Vencore Labs).

12:30-12:40 **Concluding Remarks**

12:40-14:00 **Lunch & Farewell**