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PoPETs Proceedings — Anonify: Decentralized Dual-level Anonymity for ...

Abstract: Medical data donation involves voluntarily sharing medical data with research institutions, which is crucial for advancing healthcare research. However, the sensitive nature of medical data poses privacy and security challenges. The primary concern is the risk of de-anonymization, where users can be linked to their donated data through background knowledge or communication metadata ...

Anonify: Decentralized Dual-level Anonymity for Medical Data Donation

ABSTRACT Medical data donation involves voluntarily sharing medical data with research institutions, which is crucial for advancing health-care research. However, the sensitive nature of medical data poses privacy and security challenges. The primary concern is the risk of de-anonymization, where users can be linked to their donated data through background knowledge or communication metadata ...

Measuring Conditional Anonymity—A Global Study

ABSTRACT The realm of digital health is experiencing a global surge, with mobile applications extending their reach into various facets of daily life. From tracking daily eating habits and vital functions to monitoring sleep patterns and even the menstrual cycle, these apps have become ubiquitous in their pursuit of comprehensive health insights. Many of these apps collect sensitive data and ...

PoPETs Proceedings — Editors' Introduction

Editors' Introduction Authors: Micah Sherr (Georgetown University), Zubair Shafiq (University of California, Davis) Volume: 2024 Issue: 3 Pages: 1-3 DOI: <https://doi.org/10.1145/3644444> ...

Compact: Approximating Complex Activation Functions for Secure Computation

ABSTRACT Secure multi-party computation (MPC) techniques can be used to provide data privacy when users query deep neural network (DNN) models hosted on a public cloud. State-of-the-art MPC techniques can be directly leveraged for DNN models that use simple activation functions such as ReLU. However, these techniques are ineffective and/or inefficient for the complex and highly non-linear ...

PoPETs Proceedings — Towards Biologically Plausible and Private Gene ...

Authors: Dingfan Chen (CISPA Helmholtz Center for Information Security), Marie Oestreich (German Center for Neurodegenerative Diseases (DZNE)), Tejumade Afonja (CISPA Helmholtz Center for Information Security), Raouf Kerkouche (CISPA Helmholtz Center for Information Security), Matthias Becker (German Center for Neurodegenerative Diseases (DZNE)), Mario Fritz (CISPA Helmholtz Center for ...

Privacy-Preserving Fingerprinting Against Collusion and Correlation ...

In this paper, we assess the robustness of shared genomic data-base under both collusion and correlation threats. To this end, we first develop a novel genomic database fingerprinting scheme, called Gen-Scope. It achieves both copyright protection (by enabling trace-ability) and privacy preservation (via local differential privacy) for the shared genomic databases. To defend against collusion ...

PoPETs Proceedings — Editors' Introduction - petsymposium.org

Authors: Micah Sherr (Georgetown University), Zubair Shafiq (University of California, Davis)

Compact Issuer-Hiding Authentication, Application to Anonymous Credential

INTRODUCTION Authentication in the digital world often consists in presenting certificates delivered by issuers to verifiers that can check them with the sole knowledge of the issuers' public keys. For example, in the context of electronic passport, the issuers are governmental agencies (or private companies mandated by governments) that deliver certificates (embedded in the passport chip ...

PoPETs Proceedings — DP-ACT: Decentralized Privacy-Preserving ...

Abstract: Digital contact tracing substantially improves the identification of high-risk contacts during pandemics. Despite several attempts to encourage people to use digital contact-tracing applications by developing and rolling out decentralized privacy-preserving protocols (broadcasting pseudo-random IDs over Bluetooth Low Energy---BLE), the adoption of digital contact tracing mobile ...