# D2C DATAIA CLUB CONNECTION

## RGPD PRIVACY January 14, 2021

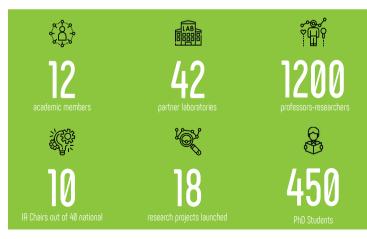


## The DATAIA Paris-Saclay Institute

Located within the Paris Saclay University (16th in the Shanghai ranking, 1st in mathematics), it is the first French ecosystem in data sciences, AI and their societal impacts.

#### MISSION

To bring together multidisciplinary expertise and boost the collective strength of its partners in the Paris-Saclay cluster with the aim of combining big data and AI technologies with social sciences and humanities for an AI at the service of humans.



#### **IN FIGURES**

## Industrial Affiliation Plan (PAI)

The Industrial Affiliation Plan (IAP) aims to boost the collective strength of the Institute's academic ecosystem and its industrial members. The services offered in response to the respective needs expressed include:

- Joint actions to support research;
- Sharing of experiences and collective needs;
- Facilitated access to recruitment;
- Access to training, seminars, workshops, etc.;
- Implementation of dedicated events (hackathons, challenges, etc.);
- Access to working places to increase exchanges.

## DATAIA Club Connection (D2C)

The D2C system aims:

• **Upstream**, to present the priority research issues and to match them with the problems of industry;

• **Downstream**, to monitor contacts and opportunities for collaboration identified until they are set up and launched.

It is part of the ambition to facilitate the establishment of several levels of collaboration and create a constructive dynamic:

- 1. Expertise / Student projects / Internships
- 2. Research collaborations / CIFRE theses
- 3. Joint laboratories / Joint teams
- 4. Multi-partner chairs

## **Objectives and program**

The main objectives of the D2C « RGPD Privacy » to address are:

- Facilitate RGPD enforcement around responsible and practical solutions;
- To feed ML models with encrypted data;
- Addressing data and software anonymization methods.

| 2pm - 2:10pm | Introduction by Bertrand Thirion - Director of the DATAIA Institute  |
|--------------|--|
| 2:10pm - 3pm | DATAIA researcher pitches on prospective research topics, followed by industry presentations on related issues |
| 3pm - 4pm    | Mini roundtables to discuss and formalize an action plan around common needs                                   |
| 4pm - 5pm    | Individual meetings for more specific exchanges<br>on bilateral collaborative projects                         |
| 5pm - 5:10pm | Conclusion and action plan by Eric Tordjeman -<br>Head of industrial partnerships                              |

## DATAIA researchers

#### Differential privacy and deep learning



Catuscia Palamidessi (Inria, LIX) Research: privacy machine learning and fairness

#### Connection with local and global differential privacy



Pablo Piantanida (CentraleSupélec, L2S) Research: deep learning, information representation, inference mechanisms

#### Privacy related to mobile networking



Aline Carneiro (Inria) Research: indistinguishability in mobile and geographic datasets

#### Data privacy and security



**Nicolas Anciaux** (Inria, CNRS) Research: security/privacy issues in the context of « Personal Data Management Systems ».

## **DATAIA researchers**

#### Cybersecurity and data protection



Thibaud Antignac (CEA List, LSL) Research: privacy, security, language-based techniques, and innovation

#### Legal and privacy



Alexandra Bensamoun (Université Paris-Saclay, CERDI) Research: digital Al and intellectual property law

#### **Development of privacy charters**



Fabrice Le Guel (Université Paris-Saclay, RITM) Research: industrial economy, digital economy, privacy and computational economy

#### Tools for feedback on the sharing and control of personal data



**Adrian Popescu** (CEA List) *Research*: image recognition, multimedia information retrieval, user privacy, content geolocation

## **DATAIA Club PAI Companies**

Privacy applied to medical imaging data



Anonymized data for connected vehicles Customer relations beyond the vehicle



Rodolphe Gelin - Expert Deep Learning and Robotics

Regulation, performance, efficiency, confidentiality in accessing clinical data



SANOFI Charles Bettembourg - Global Data Governance

Handling of medical data: difficulty of access. medical secrecy, non consent of the patient



### **Invited companies**

#### Differential privacy mechanisms on time series data



Pierre-Olivier Gibert - Founding President

Guarantees of Differential Privacy and homomorphic encryption: cross-referencing of sensitive data and collection of consents



Laurent Dupont – Data Scientist Senior Richard Diani – Data Scientist

## Institutional partners

















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