

# D2C

## DATAIA CLUB CONNECTION

### ETHICS AND AI

September 17, 2020

université  
PARIS-SACLAY

INSTITUT DATAIA  
Science des données, Intelligence & Société



# 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



12

academic members



42

partner laboratories



1200

professors-researchers



10

IA Chairs out of 40 national



18

research projects launched



450

PhD Students

# Industrial Affiliation Plan (PAI)

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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)

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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

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The main objectives of the D2C « *Ethics and AI* » to be addressed are:

- Integrate the notion of associated value by addressing the issue of ethics ROI;
- Establish the fundamental schemes of ethical charters and identify the generic levers of accountability;
- List the criteria to be put in place in order to apprehend the problems around ethics;
- Identify the critical ethical issues in the value chain of the proposed projects / use cases.

**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 on bilateral collaborative projects*

**5pm - 5:10pm**

*Conclusion and action plan by Eric Tordjeman - Head of industrial partnerships*

# DATAIA researchers

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## Conversational agents, emotions and nudge: towards which ethics?



**Laurence Devillers** (Université Paris-Sorbonne, LIMSI)  
*Research:* human-computer interaction, emotion detection and affective and interactive robotics

## Economics of personal data, ethics, consumer behavior and corporate strategies



**Fabrice Le Guel** (Université Paris-Saclay, RITM)  
*Research:* economics of personal data, Internet of Things, and consumer behavior



**Serge Pajak** (Université Paris-Saclay, RITM)  
*Research:* digital business strategies, ethics, and A/B testing



**Nicolas Soulié** (IMT-BS, LITEM)  
*Research:* e-mobility, e-reputation, and the blockchain economy

## Relationship between ethics and law



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

# DATAIA researchers

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## Linguistic analysis on knowledge processing and dialogue



**Ioana Vasilescu** (Université Paris-Saclay, LIMSI)

*Research:* language analysis, speech recognition, and automatic language processing

## Governance of goods and services affecting fundamental freedoms and equal treatment of citizens and social groups in EU countries



**Daniela Piana** (ISP ENS Paris-Saclay, MIAS)

*Research:* socio-political analysis of AI developments and uses

## Automate ML solutions with a focus on avoiding the problems of bias generated in the data



**Isabelle Guyon** (Université Paris-Saclay, LIMSI)

*Research:* Support Vector Machines (SVM), machine learning methods to address discrimination and regression issues

# DATAIA Club PAI Companies

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Clinical research, precision medicine and AI,  
at the crossroads of ethical issues



**GE Healthcare** **Henry Souchay** - *Director of Clinical Research*

Cultural and HR aspects requiring  
adjustments to meet ethical challenges

**GROUPE  
RENAULT**

**Rodolphe Gelin** - *Expert Deep Learning and Robotics*  
**Fabien Mangeant** - *Expert Leader AI*

Difficulty in accessing medical data  
(medical secrecy, lack of patient consent)



**Charles Hebert** - *Director of R&D Data Driven  
Program*



# Invited companies

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«Comfortable with Data»

Making confident and responsible use of data



**Pierre-Olivier Gibert** - *Founding President*

Importance of privacy issues, discrimination with the increasing use of digital technology in education and training



**Jean-Baptiste Piacentino** - *Entrepreneur and web technology consulting*

Create confidence in the proper use of safety systems to assist driver vigilance around ethical and moral rules



**Stéphane Arnoux** - *Co-founder CEO*

Risk analysis on code changes:  
evaluation of developers' performance?



**Sylvestre Ledru** - *Mozilla France Manager*

# Institutional partners

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*Institut Convergence 17-CONV-0003 INSTITUT DATAIA (I2DRIVE)*

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