

D2C

DATAIA CLUB CONNECTION

INTERACTION/ VISUALIZATION DATA

March 10, 2022

université
PARIS-SACLAY

INSTITUT DATAIA
Science des données, Intelligence & Société

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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)

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 « *Interaction/Visualization data* » to address are:

- Analysis and visualization of social networks: large masses of data;
- Application on image walls: large display capacities;
- 3D AR/VR augmented reality: applications in particle physics;
- Visualization applied to IoT : People tracking.

2pm - 3pm

3' pitches from DATAIA researchers on prospective research topics, followed by industry presentations on related issues

3pm - 4pm

15' one-on-one meetings with a view to setting up new collaborations

DATAIA researchers

Improving the analysis and visualization of large and complex datasets by combining analysis methods with interactive visualizations



Jean Daniel Fekete (Inria AVIZ)

Research: Visualizing information, making complex data visual and understandable, visual analysis, computer graphics and traditional animation, digital typography, digital manuscript management

Vizualisation for mobile, wireable devices and sports tracking and video games



Petra Eisenberg (Inria AVIZ)

Research: information visualization, visual analysis, computer-supported cooperative work, and human-computer interaction in general

DATAIA researchers

Collaborative immersive data exploration in AR data visualization



Tobias Eisenberg (Inria AVIZ)

Research: Interactive exploration of 3D data, immersive visualization, illustrative data visualization

Design, development and evaluation of interaction and visualization techniques : novel forms of input and novel forms of displays in specific areas



Emmanuel Pietriga (Inria ILDA)

Research: Interaction for large heterogeneous datasets; high resolution wall displays; AR to VR mixed reality; multi-user systems

Invited companies

How to better represent data in a VR environment



Franck William - *Intelligent Specialist*
3DExperienceLab

Help users find their way through the mass of collections while improving the visibility of unknown parts



Jean Philippe Moreux - *Scientific expert*
Lucie Termignon - *Scientific expert*

Social media :
how to qualify the feeling that produce?



William Bernal - *CEO*

Institutional partners



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