





INTERACTION VISUALIZATION



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, Al 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 Al technologies with social sciences and humanities for an Al at the service of humans.

IN FIGURES





The Industrial Affiliation Plan (PAI) 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.



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 Jaboratories / Joint teams
- 4. Multi-partner chairs

OBJECTIVES & PROGRAM



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

2pm - 3pm

3' pitches by DATAIA researchers on prospective research topics followed by industry presentation on related issues

3pm - 4pm

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

DATAIA RESEARCHERS



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

Petra Eisenberg (Inria, AVIZ)
Information visualization, visual an supported cooperative work, interaction in general

visual analysis, computerwork, human-computer



Collaborative immersive data exploration in AR data visualization

Tobias Eisenberg (Inria, AVIZ)
Interactive exploration of 3D data, immersive visualization, illustrative data visualization



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

Jean-Daniel Fekete (Inria, AVIZ)

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



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

Emmanuel Pietriga (Inria, ILDA)

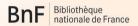
Interaction for large heterogeneous datasets, high-resolution wall displays, AR to VR mixed reality, multi-user systems

GUEST 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 Termianon - Scientific Expert



Social media: how to qualify the feeling that produce?

INSTITUTIONAL PARTNERS

























INSTITUT DATAIA

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