

# Uncertainties & risks

## Thematic Seminar

LASTIG laboratory

September 12, 2025



# LASTIG lab. (Univ Eiffel, IGN-ENSG, EIVP)

**French leading lab in Sciences and Techniques in Geographic Information**

**Open & reproducible science**

## **Objectives:**

Data, knowledge, methods, tools for

modeling, analysing, simulating and visualising our territories and **spatio-temporal phenomena.**

# LASTIG identity

**French leading lab in Sciences and Techniques in Geographic Information**

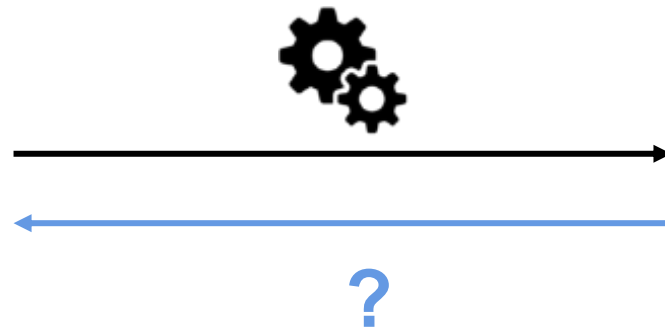
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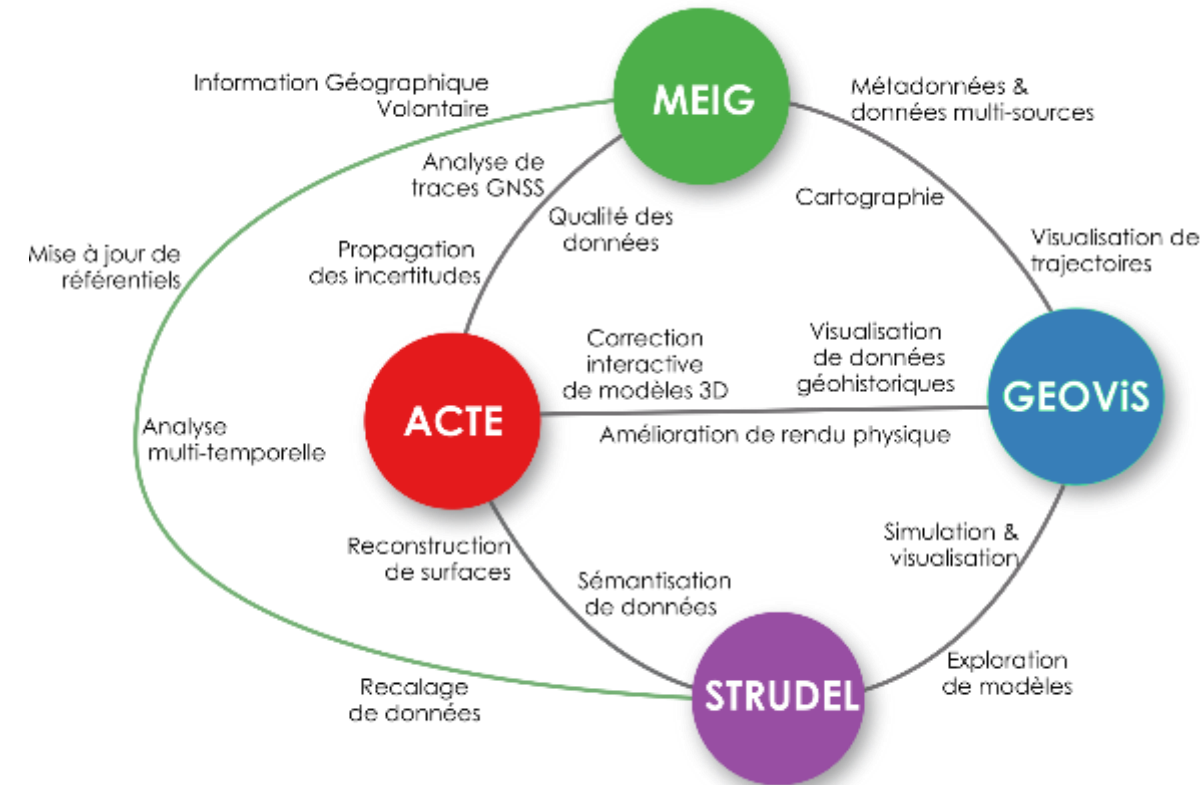
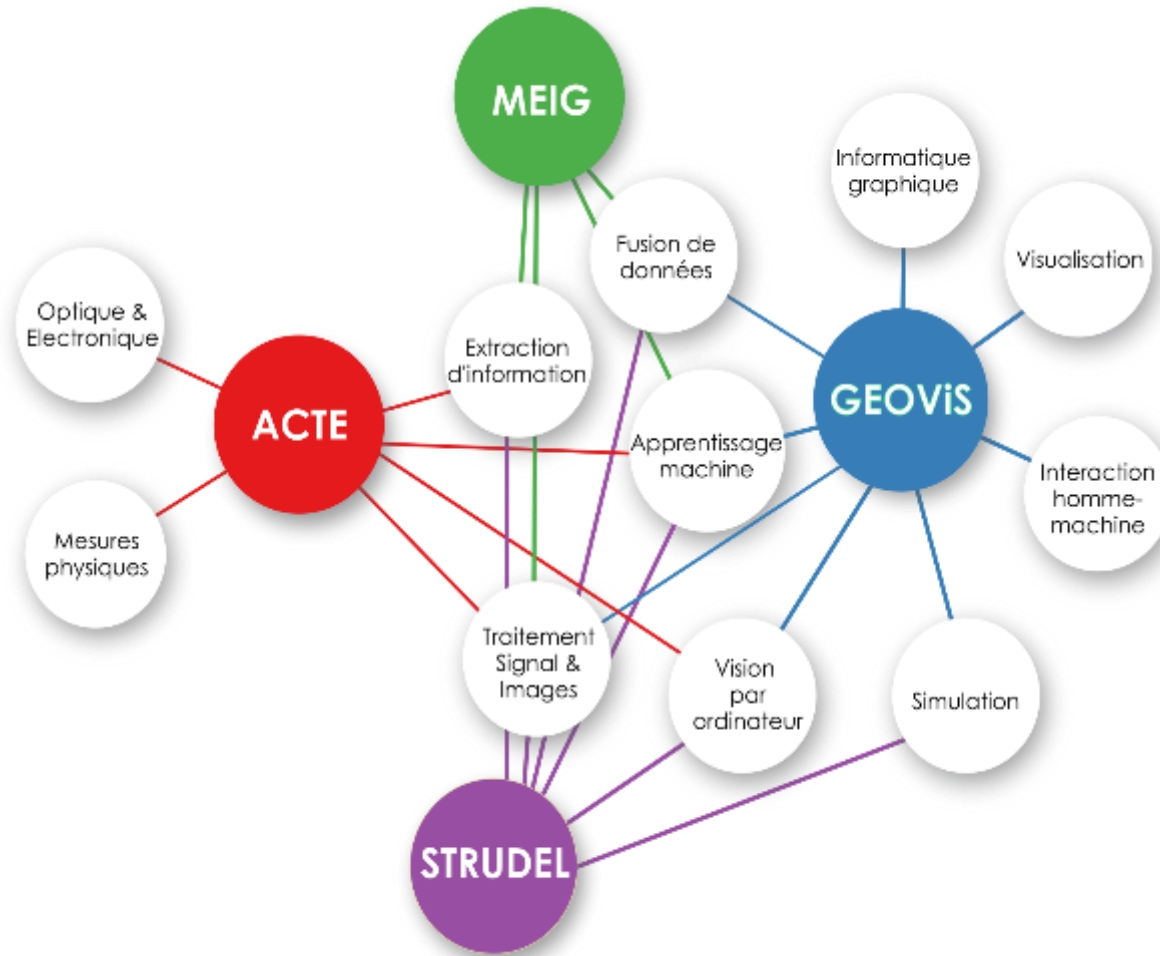
### Why are we unique ?

- Intersection between computer sciences, geography, SHS, environmental sciences.
- **Complete life-cycle** of geospatial data





# LASTIG organisation and “main” topics



# What do our publications tell us ?



2019-2024



2024

# Thematic seminars are highly welcome !

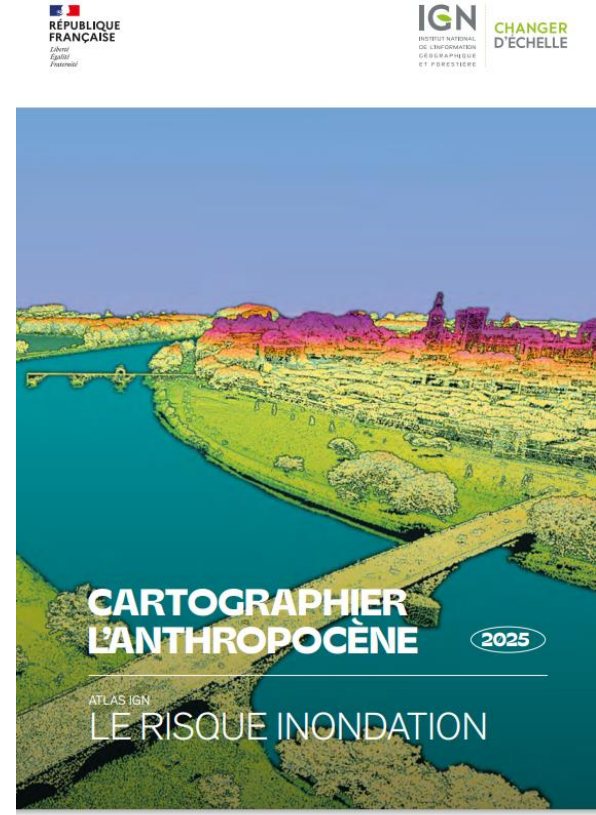
- **A glimpse of the diversity of our research fields and topics:**
  - Yet organised by “topic”.
- **Reporting at various levels of maturity:**
  - Not only focusing on published papers and ending projects.
  - Complementary to current events: *Fête de la Science*, *Journée de la Recherche*, etc.
  - Stimulating cross-fertilization and collaborations .

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  - Stimulation cross-fertilization and collaborations
- **Food for everyone:**
  - Partners, neighbors, institutional representatives, etc.

# Today: Uncertainties & risks

- **Methological and thematic challenges:**
  - Often intertwined.
  - Facing climate change impact.
  - Handling black-box AI models and multi-modality of sources.





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JOURNAL OF RISK RESEARCH  
2025, VOL. 28, NO. 1, 1–16  
<https://doi.org/10.1080/13669877.2025.2488392>

 **Routledge**  
Taylor & Francis Group

 OPEN ACCESS

 Check for updates

## From climate facts to climate risks. How the IPCC treats risk and uncertainty

Rolf Lidskog

Environmental Sociology Section, School of Humanities, Education and Social Sciences, Örebro University, Örebro, Sweden



[About](#) [Call for Papers](#) [Accepted Papers](#) [BRAVO Challenge](#) [Program](#)

In the last decade, substantial progress has been made w.r.t. the performance of computer vision systems, a significant part of it thanks to deep learning. These advancements prompted sharp community growth and a rise in industrial investment. However, most current models lack the ability to reason about the confidence of their predictions; integrating uncertainty quantification into vision systems will help recognize failure scenarios and enable robust applications.

The UNcertainty quantification for Computer Vision (UNCV) Workshop aims to raise awareness and generate discussion regarding how predictive uncertainty can, and should, be effectively incorporated into models within the vision community. At the time of Generative AI (GenAI) we find this more crucial than ever. The workshop will bring together experts from machine learning and computer vision to create a new generation of well-calibrated and effective methods that *know when they do not know*.

# Today: Uncertainties & risks

- **Methological and thematic challenges:**

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- **Schedule:**

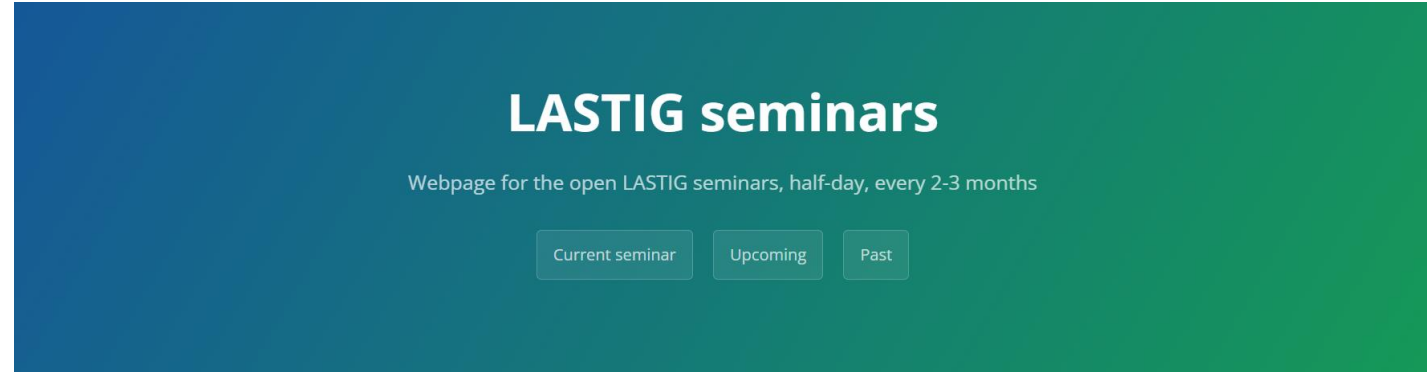
Speakers	Time
<b>KEYNOTE: Andrei Bursuc (Valeo.ai)</b>	9:30
Jacques Gautier	10:20
Arnaud le Guilcher	10:50
Alexandre Hippert-Ferrer	11:20
Jean-Michaël Muller	11:50

- Questions via **Zoom chat for remote participants.**

# Stay tuned !

- **Reference website for forthcoming seminars;**
  - Monitoring territory dynamics -> December 2025
  - Intervisibility -> March 2026

<https://www.umr-lastig.fr/seminars/>



The **LASTIG lab** is the French leading lab in **Geographic Information sciences**. The lab covers the complete lifecycle of geospatial data from their capture to their visualisation, including modelling, integration & analysis.

We propose every 2 or 3 months seminars that gather **guest keynotes** and presentations of **lab members/affiliates** on a topic at stake. Both mature and on-going works can be featured to stimulate discussions and introduce new lab projects.

Our seminars are **hybrid, free, open to everyone**, assuming you are preliminarily registered. In case of questions, feel free to reach us at [dir-lastig\\_\(at\)\\_ign\(dot\)\\_fr](mailto:dir-lastig_(at)_ign(dot)_fr).

**September 12, 2025: *Uncertainty and risks***



**Thanks for your participation !**

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