

# AI-BASED CRIME INVESTIGATION: A GAME CHANGER TO PRIVACY?

March 6th and 7th 2025:  
Saarland University

May 15th and 16th 2025:  
Strasbourg University



This conference seeks to gather perspectives from stakeholders involved in AI-based crime investigation and study them through the prism of data protection. It brings together crime investigators, IT researchers, and legal specialists in data protection, AI law, and criminal law for a dynamic exchange of perspectives.

#### Scientific direction

Yamina BOUADI, LL.M., Doctoral researcher at Saarland and Strasbourg Universities  
Maria GAHN, LL.M., Doctoral researcher at Saarland University

#### Scientific advisors

Dominik BRODOWSKI, LL.M. (UPenn), Professor at Saarland University  
Juliette LELIEUR, Professor at Strasbourg University

Information, programme and registration :



Laboratoire  
Droit, religion,  
entreprise et société | DRES  
de l'Université de Strasbourg  
et du CIRS

**ciera**  
CENTRE INTERDISCIPLINAIRE  
D'ÉTUDES ET DE RECHERCHES  
SUR L'ALLEMAGNE

Making European  
Society | MAKERs

The Interdisciplinary thematic Institutes  
of the University of Strasbourg | Inserm  
funded under the Excellence Initiative program

Gefördert durch den  
Internationalisierungsfonds



## Part I – AI-based crime investigations and privacy: a general perspective

March 6<sup>th</sup> 2025, Saarland University

Building B4 1, room 0.27   
Universität Campus, 66123 Saarbrücken

**10:00**      **Arrival of the speakers and participants**

Welcoming coffee

**10:30**      **Start of the day**

*Welcoming words*

Dominik Brodowski, Professor and Vice-president for international affairs at Saarland University.

*Introductory words*

Yamina Bouadi and Maria Gahn, co-organisers of the conference.

**11:00**      **Keynote and discussions**

AI and privacy: A Computer Science Perspective  
Christoph Sorge, Professor at Saarland University.

*Discussions*

### Panel 1 – Regulation challenges of AI consequences on privacy

Chair: Prof. Christoph Sorge

**11:40**      **AI used in Law enforcement: what consequences on human rights, more specifically data protection?**

Kamel El Hilali, AI and the Rule of Law, UNESCO.

*Discussions*

**12:30**      *Lunch break*

**Panel 2 – AI in criminal proceedings: opportunity or risk?**  
Chair: Janine Blocher, Doctoral researcher at Konstanz University

**14:00**      **AI-based forensics in the AI-act: a mismatch for fair trial rights?**  
Johan van Banning, Doctoral researcher at Amsterdam University.

**14:20**      **No Shame in Front of the Robot: a comparative human-AI impact assessment**  
Charlotte Quaisser, Doctoral researcher at Luxembourg University.

*Discussions*

**Panel 3 – Shortening the rights of the accused through the use of AI**  
Chair: Juliette Lelieur, Professor at Strasbourg University

**15:00**      **Use of virtual reality at the crime scene and in court: challenges of data protection**  
Maria Gahn, Doctoral researcher at Saarland University.

**15:20**      **The use of AI-based translator in criminal proceedings and its impact on the gained evidence and data protection**  
Philipp Lehnertz, Student Research Assistant at Saarland University.

*Discussions*

**16:00**      *Coffee break*

## Panel 4 – Detecting sexual offences via AI

Chair: Yamina Bouadi, Doctoral researcher at Saarland and Strasbourg Universities

**16:30**      **Chat control and data protection**

Christoph Zoller, Doctoral researcher at Saarland University.

**16:50**      **The use of CSAM for criminal prosecution**

Martin Reiter, German Public Prosecutor Office Saarbrücken.

*Discussions*

*End of the first day*

March 7<sup>th</sup> 2025, Saarland University

Building B4 1, room 0.27   
Universität Campus, 66123 Saarbrücken

**9:15**      **Start of the day**

**9:30**      **Keynote and discussions**

Dominik Brodowski, Professor at Saarland University.

**9:50**      **AI against crime: a challenge of regulation?**

General Patrick Perrot, Coordinator for Artificial Intelligence – AI Advisor to the Comcyber of the French Home Ministry.

Discussions

**10:40**      *Break and walk to the DFKI (German Research Center for AI)*

**11:00**      **Visit of the DFKI**

**Panel 5 – Use of and research on AI – a look beyond the horizon**  
DFKI

- Introduction to the work of the DFKI
- Presentation of 3 current DFKI projects :
- Jan Alexanderson – “MePheSTO”
- Dimitra Tsovaltzi – “MITHOS”
- Maurice Rekrut – “Silent Speech”

**Panel 6 – Use of and research on AI – a look beyond the horizon**  
DFKI

**11:50**      **Anomaly detection in the financial sector**

Peter Fettke, Professor of Business Informatics at Saarland University, DFKI.

*Discussion*

**12:30**      *Lunch Break*

## Panel 7 – Picture Recognition

Chair: Dominik Brodoswki, Professor at Saarland University

**14:00**      **Privacy issues on automated license plate recognition: a comparative study** (France, US, Canada)

Amélie Turci, Doctoral researcher at Ottawa and Rennes Universities.

**14:20**      **Body Geometry Based Age Estimation – A Custom Model for crime investigation**

Paul Ferdinand Silas Könneker, Master Student at Saarland University.

### *Discussions*

15:30      Concluding remarks

End of Part I of the conference

POLICE LINE DO NOT CROSS POLICE LINE

## Part II: AI-Based digital forensics and investigations of cybercrime

May 15<sup>th</sup> 2025 - Strasbourg University

Room "Alex Weill" (5th floor)  
Law Faculty / Faculté de droit, gestion et science politique  
1 place d'Athènes  
F-67045 Strasbourg Cedex



- 10:00**      **Arrival of the participants**  
Welcoming coffee
- 10:15**      **Opening words**
- Prof. Jeanne-Marie Truffery-Andrieu, Dean of the Law Faculty of Strasbourg.
  - Prof. Mélanie Schmitt, Directrice of UMR DRES 7354.
- 10:30**      **Introductory words**  
Yamina Bouadi and Maria Gahn, co-organisers of the conference.
- 10:40**      **Keynote speech: How is implemented the concept of "privacy by design" in Machine Learning?**  
Ihsen Alouani, Associate Professor at Belfast University's School of Electronics, Electrical Engineering and Computer Science.

### Panel 1: Who runs the online world? Data Miners and Web Crawlers!

Chair: Juliette Lelieur, Professor at Strasbourg University

- 11:10**      **The 'algorithmic identity' in the spotlight of law enforcement authorities.** *Analysing expectations regarding the secrecy of online communication*  
Janine Blocher, Doctoral researcher at Konstanz University.
- 11:30**      **Leveraging AI-powered Web Crawlers for Criminal Investigations: Revolutionizing Law Enforcement, Questioning Data Protection**  
Andreas Kanakakis, Doctoral researcher at the Luxembourg and Brussels Universities.

### Discussions

- 12:15**      **Lunch break**

**Panel 2: Criminal investigations based on public spaces surveillance: biometric data included**

Chair: Dominik Brodowski, Professor at Saarland University

**14:00 The political and legal implications of Algorithmic video surveillance for police work**

Félix Tréguer, Associate Researcher at CNRS (French National Research Center), Center for Internet & Society and Member of La Quadrature du Net.

**14:20 The implementation of privacy in Machine Learning through federated learning, homomorphic encryption**

Thomas Lampert, Professor in Computer Science and AI at Strasbourg University.

*Discussions*

*Coffee break*

**Panel 3: Criminal investigations based on public spaces surveillance: biometric data excluded**

Chair: Sylvain Vernaz, Lecturer at Université de Haute Alsace, Mulhouse

**15:20 Application of European law to the French algorithmic video protection experiment – Its apprehension in national public law**

Raphael Déchaux, Public law lecturer at Lorraine University, Metz.

**15:40 Application of European law to the French algorithmic video protection experiment – Its apprehension in national criminal proceedings**

Yamina Bouadi, Doctoral researcher at Saarland and Strasbourg Universities.

*Discussions*

**16:30** *Closing remarks for the day*

May 16<sup>th</sup> 2025 - Strasbourg University

Collège Doctoral Européen   
46 Boulevard de la Victoire, 67000 Strasbourg

**9:00**      **Arrival of participants**  
Welcoming coffee

**9:30**      **Start of the conference**

**Welcoming words by Maria and Yamina**

**Panel 4: AI-based online digital evidence gathering: obligations for law enforcement authorities, platforms and legal entities**

Chair: Maria Gahn, Doctoral researcher at Saarland University

**9:40**      **On the Legal Limits and Criminal Procedural Implications of Applying Artificial Intelligence in Corporate Internal Investigations (online)**  
Túlio Felipe Xavier Januário, Doctoral researcher at Coimbra University.

**10:00**      **Detecting human trafficking for sexual exploitation online: AI-related obligations for law enforcement authorities and platforms**  
Salomé Lannier, Post-doctoral researcher at Luxembourg University.

**10:20**      **Digital Evidence Gathering: The Role of Legal Entities in Spanish Criminal Proceedings**  
Marina Oliveira Teixeira dos Santos, Assistant for the Autoridad Independiente en materia de corrupción de Castilla y León (AICCyL), Spain.

*Discussions*

POLICE LINE DO NOT CROSS POLICE LINE DO NOT CROSS

## Panel 5 – AI-based transborder crime investigation

Chair: Yamina Bouadi, Doctoral research at Saarland and Strasbourg Universities

- 11:00**      **AI-based border control from an IT point of view** (online)  
Mohamed Genedy, Co-Founder and CTO of Trustec Valley.
- 11:20**      **The use of AI in transborder investigations: the ambivalence of EU law**  
Chloé Fauchon, Criminal law lecturer at Bayonne University.

*Discussions*

*Lunch buffet (12:00–13:30)*

## Panel 6 – “World café” – French and German Master students’ exchange time with participants

**Place:**            Indoor garden of Collège Doctoral Européen (1<sup>st</sup> floor)  
46 Boulevard de la Victoire, 67000 Strasbourg

**13:30–14:30**

Concept: Students (from Saarland and Strasbourg Universities) present their questions for their master research project (Seminararbeit) or in general for their personal and academic interest to small groups of speakers to receive pieces of advice, and inputs in methodology as well as in law/ technology/ comparative law.

**14:30**            **Concluding remarks**

*End of the event*