

LeADS Newsletter

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A Recap of Training Module 4

From the 19th to 25th of June 2022 the 15 ESRs met again for their fourth training module. This time they had the chance to meet on the beautiful island of Crete, Greece. The LeADS training program is structured around several training modules that together aim at training a new generation of researchers as legally attentive data scientists that become experts in both law and data science capable of working within and across the two disciplines. Whereas the third training module in Pisa focussed on the legal perspective, this training module focussed more on the computer scientist perspective.

LeADS at AIAI: Panel discussion and Poster Session

The training week kicked off with a workshop on “Best Practices for the development of intelligent and trustworthy algorithms and systems” at the [18th International Conference on Artificial Intelligence Applications and Innovations \(AIAI\)](#).

The workshop was divided into two separate panel discussions. The first panel, moderated by **Imge**

Ozcan from VUB, was entitled “Data Ownership, Privacy and Empowerment. The panellists Katerina Demetzou (Future of Privacy Forum), Paul De Hert (VUB), and Afonso Ferreira (CNRS, Institut de Recherche en Informatique de Toulouse) discussed legal and anthropological theories about property and the powers and limitations of a potential data ownership right.

The second panel, moderated by **Giovanni Comandé** from SSSA, was entitled “Trustworthy Data Processing Design”. The panellists **Jessica Eynard** (Toulouse Capitole University), **Gabriele Lenzini** (University of Luxemburg), and **Salvatore Rinzivillo** (Italian National Research Council) debated what kind of legal, ethical, and technological framework is needed in order to ensure a trustworthy data economy that increasingly is in demand for secondary data uses.



Furthermore, prior to the conference all ESRs prepared **posters** to visualize the most important results of their research. All **posters were exhibited and accessible to visitors from the AIAI conference** which allowed the ESRs to engage and discuss their research with the international audience from the conference.



Training Week: From Theory to Practice

Followed by this engaging introductory sessions, the ESRs presented the results from their individual research they had been conducting throughout the first months from the LeADS project. All 15 ESRs are divided into 4 Crossroads, i. e. major challenges that still need to be addressed in data-driven societies: (1) Privacy vs Intellectual Property (2) Trust in Data Processing & Algorithm Design (3) Data Ownership (4) Empowering Individuals. Each ESR has furthermore been assigned an individual research topic. During the first months of their research journey, the ESRs wrote a State-of-the-Art analysis of their topic which constitutes the scientific foundation for the upcoming research and cross-collaboration between the researchers. During 4 sessions each ESR from each crossroad had 20 minutes to present and discuss their results.

Michael Filippakis from University of Piraeus subsequently discussed how data science impacts society and can support policy-making processes and benefit innovation. In a hands-on session he introduced the ESRs to time series analysis with R programming language. **Ilias Maglogiannis** from

University of Piraeus in his lecture on pervasive health management technology and data analytics gave several practical examples how technology is used to analyse health activities, for instance, in the case of smart clothing to monitor athletic activities. **Giovanni Comandé** from SSSA talked about (challenges to) secondary uses of data and elucidated on relevant GDPR provisions. **Salvatore Rinzivillo** in his engaging lecture discussed with the ESRs how to design explainable AI, i. e. how to incorporate intelligibility (how does it work?) and accountability (who is responsible for?) in AI systems.

The last 3 days from the training were dedicated to two practical sessions. First, **Mohamed Ali Kandi**



from UT3 introduced the ESRs to the creation and deployment of smart contracts with solidity. Followed by this introduction the ESRs were divided in groups consisting of both lawyers and computer scientists – reflecting the interdisciplinary approach which the LeADS project epitomizes. These interdisciplinary groups then had to write and deploy a smart contract which allowed a controller to assign and remove the right to data subjects to rectify their data. Second, **Itzel Vazquez Sandoval** from University of Luxembourg introduced the ESRs to the design and analysis from security protocols. During the

subsequent practical session, the ESRs were introduced to the tool ProVerif and had to analyse a bank statement request protocol. In groups the ESRs had to identify potential weaknesses for attacks that could lead to security breaches in the design from the protocol.

Both exercises strengthened the understanding from the ESRs how solutions to GDPR requirements can be designed, implemented, and analysed and thereby putting a dialogue between computer scientists and lawyers into practice.

Introductory Crossroads Report

During the first months of their research the ESRs have been working on their individual state-of-the-art analysis of their research topic.

In addition to this individual research, however, they have also been collaborating closely together within the four Crossroads of the LeADS project, i.e. challenges that still need to be addressed in data-driven societies: 1. Privacy vs Intellectual Property 2. Trust in Data Processing & Algorithmic Design 3. Data Ownership 4. Empowering Individuals.

Within those four Crossroads the ESRs engaged with each other's topics in order to create a collective document that is nourished from the individual and collective research. Since the Crossroads are composed of researchers from different academic backgrounds, discussions surrounding the Crossroad topics were interdisciplinary involving diverse perspectives from law, computer and data science, and economics.

During regular meetings with all ESRs progress reports were

given in order to ensure that the different Crossroad reports develop in a homogenous manner.

The result of this intensive process is a 180-pages long report that constitutes the first scientific output of the LeADS project and functions as a backbone for the upcoming research activities from the ESRs. Over the upcoming months, collaborations between ESRs from different Crossroads will intensify in order to bring together perspectives from the different LeADS Crossroads.

ESRs presenting their Research at Conferences

ESR **Maciej Zuziak** participated at IAIL 2022 - the International Workshop on Imagining the AI Landscape after the AI Act with a paper presentation on Federated Learning as an Analytical Framework for Personal Data Management.

Distributed learning is currently one of the most discussed topics in the data science community – due to many technical and legal problems, it is also an excellent pivot for a discussion on the system design and how we approach the current data economy.

ESR **Xengie Doan** shared their research and talked to interdisciplinary mentors in a doctoral colloquium at ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT) in June 2022. Followed by a talk from Seth Lazar, a philosopher and one of the co-founders of the conference, on interdisciplinary research, they joined different roundtables for mentorship by academic and industry professionals, then a round table for peer mentorship for other PhDs working broadly the topic of health.

ESR **Bárbara da Rosa Lazarotto** presented her research at the 9th biennial Surveillance & Society conference of the Surveillance Studies Network (SSN), hosted by Erasmus University Rotterdam on June 1-3 2022 in Rotterdam, The Netherlands.

As a part of the panel named “Human Rights Europe and Global South” Barbara presented her topic of public-private data sharing under the lens of State Surveillance, analyzing the role of sensors in a Smart City context and how this data can be used to analyze and monitor entire

ESR **Fatma Sümeýra Dođan** will participate in the conference “Digital Law & Policy – Proportionality Principle in IT Regulation” organised by the University of Warsaw from 10-11.09.2022. During the panel on balancing risk of surveillance against technological benefits she will present her research on “A Year After EU Digital COVID Certificate Regulation: An Analysis in Retrospect”.

ESRs at Summer Schools in Pisa and Brussels

AI & Society 2022 Summer School in PISA

From the 4th to the 8th of July 2022, the first edition of the “AI & Society Summer School”, organized by the Italian National Ph.D. program in Artificial Intelligence, PhD-AI.it, took place at the University of Pisa. The summer school consisted of lectures, panels, poster sessions, and project works. The aim was to advance the frontier of AI research with internationally renowned scientists and build a community for the next generation of AI researchers,

innovators, and professionals. All ESRs (**Tommaso Crepax, Mitisha Gaur, Robert Lee Poe, Qifan Yang, Maciej Zuziak**) in the Pisa group of LeADS participated in this summer school.

Brussels Privacy Hub Summer Academy 2022: Engineering data regulation(s) in an age of reform

From the 27th to the 1st of July 2022 the 7th Summer Academy from Brussels Privacy Hub took place at VUB, focussing on the various different legislative proposals that currently reform the EU

Data governance framework. The program dedicated each day to a regulatory instrument, placing each regulatory text within its proper background and ecosystem, before analyzing its regulatory approach and (still draft) provisions.

ESRs **Onntje Hinrichs** and **Barbara Lazarotto** were part of the organization team. **Barbara Lazarotto** furthermore was one of the lecturers of the role-playing session named “Selling Books on Amazon: Why would you even need the DMA?” where the participants had to apply the DMA and GDPR to a practical case study.

Publications and Call for Papers

The Right to Lodge a Data Protection Complaint: Ok, but then what?

The first study of the [European Data Protection Scholars Network](#) (DPSN) commissioned by [Access Now](#) has been published. This study aims to map current DPA practices related to the right to lodge a complaint (Article 77 of the GDPR) across different EU countries, combining legal analysis and the observation of DPA websites, together with insights from the online public register of decisions adopted under the 'one-stop-shop' mechanism. In general, the research shows discrepancies that concern fundamental aspects of the submission and handling of complaints, with potentially serious implications on the level of data protection in the EU.

Amongst the authors are **Gloria González Fuster**, member of LeADS Supervisory Board and ESR **Barbara da Rosa Lazarotto**.

The study can be accessed [here](#).

Call for Papers – Digital Ethics: Insights into How Technology Shapes Us And the World We Live In

Humanities & Social Sciences Communications is a fully open-access, online journal publishing peer-reviewed research from across—and between—all areas of the humanities, behavioural and social sciences. The journal is strongly committed to upholding the highest editorial and ethical standards and providing our authors and readers with a responsive and efficient service. Dr. Marietjie Botes, one of LeADS collaborators, is the Co-Guest Editor of a special edition, entitled 'Digital ethics: Insights into how technology shapes us and the world we live in' to be published in the academic journal Humanities & Social Sciences Communications published by Springer Nature.

Open access policy

The journal levies an [article processing charge](#) (APC) on papers accepted for publication. Authors who lack funding to cover open access publication from either their funder or institution should contact the journal (hsscomms@springernature.com) prior to submission to discuss options.

Call for papers

This topical collection invites contributions from across disciplinary and geographical boundaries that confront the plethora of ethical dilemmas that digital technologies bring. The deadline for submissions is March 2023, for more information check the [journal website](#).

Key facts

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SUPERIORE DI STUDI
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Contact us

In case you want to reach out to us, you can do so by writing us an email at info@legalityattivedatascientists.eu.

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YouTube: https://www.youtube.com/channel/UCaKqETPbi2OsmfzJp_44JnA

LeADS Blog: <https://www.legalityattivedatascientists.eu/blog/>