LeADS

Volume 1, Issue 1
26/11/2021

LeADS Newsletter

INSIDE THIS ISSUE:

The start of the LeADS era

On January 1st 2021, LeADS (Legality Attentive Data Scientists) started its journey. A Consortium of 7 prominent European universities and research centres, along with 6 important industrial partners and 2 Supervisory Authorities, is exploring ways to create a new generation of LEgality Attentive Data Scientists while investigating the interplay between and across many sciences.

LeADS envisages a research and training programme that will blend ground-breaking applied research and pragmatic problem-solving from the involved industries, regulators, and policy makers. The skills produced by LeADS and tested by our Early Stage Researchers (ESR) will help tackle the confusion created by the blurred borders between personal and commercial information and between personality and property rights typical of the big data environment.

The LeADS research plan, which already envisages 15 specific topics for interdisciplinary investigation, remains open-ended.

LeADS research strives to create, share cross-disciplinary languages and integrate the respective background domain knowledge of its participants in one shared idiolect that will be disseminated to a wider audience.

(for the full piece, please check our website here)

The LeADS blog: a primer

While we were looking for 15 exceptional ESRs to start their research journey within the LeADS project, we have been working on setting the stage for the individual and joint research paths.

In this respect, we have started a blog series dealing with the different topics that the ESRs will be looking at as part of their training.

If you still haven't had the chance to take a look at some of our initial posts, you can do so in the following link: https://www.legalityattentivedatascientists.eu/blog/

First scientific results in journals

While we hope that our blogpost series helps in reaching out to the general public with the latest developments of our research, we have also engaged with the scientific community.

As such, we have already started to disseminate part of our initial research results in different scientific journals, and we expect that once our ESRs start their journey within LeADS, this would be further expanded.

Following up with the OpenScience movement and the EU's OpenAccess policy, you can read our complete list of publications so far in the following link.

ESR training in November and December

We are delighted to announce that our selected ESRs are currently engaged in a 3 weeklong training in Pisa.

The purpose of this training session is to allow each ESR to understand, apply and develop scientific methods that lead to scientific breakthrough, measurable also in the quality of their publications. Their excellent research skills and competences are also being developed in compliance with Open Science paradigm, promoting the collaborative development and sharing of tools, data and results.

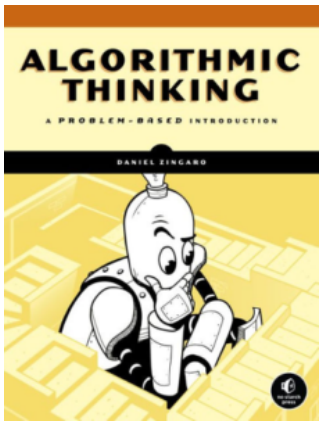
ESRs are developing a high level of personal effectiveness and learning self-improvement mechanisms, including how to handle and properly address difficulties in research. Ultimately, these competencies will enable them to perform high-level research in multidisciplinary and collaborative environments, such as LeADS.

The ESR training will be the focus of the second newsletter.

Algorithms are learning from our behaviour

Have you ever wondered about why the online suggestions for videos, products, services or special offers you receive fit so perfectly into your preferences and interests? Why your social media feed only shows certain content, but filters out the rest? Or why you get certain results on an internet search on your smartphone, but you can't get the same results from another device? And why does a map application suggest a certain route over another? Or why you are always matched with cat lovers on dating apps?

You can find these answers by reading the full entry from Arianna Rossi and Marietje Botes via this link to our blog.



Technical and legal aspects of health data

Currently, processing of health data falls under complex GDPR legal regime. This, however, poses a serious challenge for the data processors on the one hand and, on the other, gives rise to numerous legal questions. What are the grounds for processing such data in this highly differentiated context? How should medical data be protected both on the regulatory and technological level? How can we harness the newest technology to increase data safety? How can anonymization and/or privacy-preserving data management techniques using efficient cryptography (e.g., homomorphic, secure multi-party computations) contribute to reaching higher protection levels without becoming a hurdle or an impediment for legitimate data processing? Can the blockchain technologies be used for health information exchange? Should the creation of technological infrastructure be coupled with establishing proper key management schemes?

You can read the full entry by Katarzyna Południak-Gierz via this link to our blog.

Meet the team

The LeADS project is composed of several beneficiaries and partners with key expertise in different areas that complement each other. Our beneficiaries are:

- Scuola Superiore Sant'Anna (Sant'Anna School of Advanced Studies, SSSA), Italy
  - Field: The LIDER-Lab (International and Comparative Law Research Laboratory) has a long tradition of theoretical and empirical legal research, training, and consulting
  - Expertise: Fundamental rights protection, personal data protection, contracts, privacy, private law and new technologies
- University of Luxembourg (UL), Luxembourg
  - Field: Interdisciplinary Centre for Security, Reliability and Trust (SnT) conducts research in ICT with a focus on socio-economic impact
  - Expertise: secure, reliable, and trustworthy ICT
- Université Toulouse III – Paul Sabatier (UT3), France
  - Field: Institut de Recherche en Informatique de Toulouse (Toulouse Institute of Computer Science Research, IRIT) specializes in computer science with a global outlook and collaboration with academic and industry partners
  - Expertise: security, privacy, data sciences, engineering, networks
- Vrije Universiteit Brussel (VUB), Belgium
  - Field: Law, Science, Technology, & Society (LSTS) is an international leader in analytical, theoretical, and prospective research related to law and STS
  - Expertise: privacy, data protection, human rights, technology regulation
- University of Piraeus (UNIPI), Greece
  - Field: Data & Cloud Research Group conducts research AI, data management and analytics
  - Expertise: machine and deep learning algorithms for application in health, retail and transportation and techniques for data modelling, quality assessment, and analytics
- Jagiellonian University (JU), Poland
  - Field: The Civil Law Department conducts research in private law, contract law and new technologies
  - Expertise: The Intellectual Property Law Institute specializes in IP and is active in teaching, publishing, consulting and providing legislative support
- Consiglio Nazionale delle Ricerche (Italian National Research Council, CNR), Italy
  - Field: The Istituto di Scienza e Tecnologie dell Informazione "A.Faedo" (ISTI) and KDD-Lab, which pursues fundamental research, strategic application, and higher education in the area of knowledge discovery and data mining
  - Expertise: mobility data mining and privacy preserving data mining

Our partners are:

-Innovation Acts Ltd (Innov-Acts), Cyprus
  - Field: Information and Communication Technology (ICT) consulting firm with software development and business services and an emphasis on FinTech
  - Expertise: IoT, BigData/AI, blockchain and Cyber-Security

-Byte, Greece
  - Field: ICT integrator company with a focus on the private sector
  - Expertise: systems integration, custom software application development, value added services

-Intel Corporation, USA
  - Field: Global leading semiconductor company that manufactures technology at the heart of countless innovations
  - Expertise: semiconductor, AI, analytics and cloud-to-edge technology

- Garante per la protezione dei dati personali (Italian Data Protection Authority), Italy
    - Field: Independent administrative authority established by the privacy law (No. 675 in 1996), regulated by the Personal Data Protection Code (No. 196 in 2003), and established as the supervisory authority responsible for monitoring the application of the General Data Protection Regulation
    - Expertise: supervisory and administrative authority, data protection
- Autorità Garante della Concorrenza e del Mercato (Italian Competition Authority), Italy
    - Field: Independent administrative authority established by The Competition and Fair Trading Act (No. 287 in 1990). It enforces rules against anticompetitive agreements, abuses of dominant positions, and concentrations.
    - Expertise: anticompetition, consumer protection

-Tellu, Norway
- Field: Welfare technology development to digitize the health sector by offering an eHealth and welfare integration platform and solutions for patient monitoring and personnel safety
- Expertise: eHealth and home care

-Indra, Spain
- Field: Global technology and consulting company that provides proprietary solutions with a focus on value and innovation
- Expertise: transport and defence

-MMI, Pisa
- Field: Enables surgeons around the world to address unmet needs and achieve better outcomes
- Expertise: microsurgical procedures

You can check our beneficiaries and partners profiles at our website via these two links.

Contact us

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

You can also find us in the following social media platforms:

Twitter: @LeADSmsca

LinkedIn: www.linkedin.com/in/LeADSMSCA

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

Key facts
Grant Agreement Nº 956562
Start Date: 1 January 2021
Duration: 4 years
Coordinator: SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO S ANNA

This project has received funding from the European Union's Horizon 2020 research and innovation program under the Marie Skłodowska-Curie grant agreement No 956562.