

EELISA

SPRING SCHOOL

6TH-10TH MARCH 2023, PISA, ITALY

ETHOS+TEKHNE

A NEW GENERATION OF AI RESEARCHERS

UNDERSTAND THE IMPACT OF AI WITH AI RESEARCHERS, PHILOSOPHERS, ECONOMISTS, BIG-TECH LEADERS, JOURNALISTS, LAWYERS, MEMBERS OF THE EU PARLIAMENT AND CITIZENS.

<https://community.eelisa.eu/activities/ethos-tekhne-a-new-generation-of-ai-researchers/>



Sant'Anna
School of Advanced Studies – Pisa



SCUOLA
NORMALE
SUPERIORE

PSL 
UNIVERSITÉ PARIS

GOAL

In fulfilment of the EELISA Board Declaration, this school aims to align technical excellence with social impact in the upcoming generation of AI researchers and developers, by combining their *tekhne* with *ethos*.

SCHOOL PROGRAMME

The school program will unfold over a week of thematic days around the **Ethics Guidelines for Trustworthy AI**, drafted by the AI High-Level Expert Group nominated by the European Commission. Each day will address a specific question, thanks to lectures in the morning and practical activities in the afternoon. The five topics will be:

- 1) the socioeconomic impact of AI
- 2) EU regulations for a fair and private AI
- 3) explainable AI (XAI)
- 4) AI decision-making biases identification and AI trustworthiness assessment
- 5) legal liability in AI

DAY 1: THE SOCIO-ECONOMIC IMPACT OF AI

- 10:00-11:30 am ***Is there a digital capitalism? - Lecture***
Prof Mario Pianta, Scuola Normale Superiore
- 11:30-11:45 am break
- 11:45-1:00 pm ***Understanding the Impacts of Digital Platforms - Lecture***
Prof Dario Guarascio, La Sapienza University of Rome
- 1:00-2:30 pm Lunch
- 2:30-4:00 pm ***Title TBC - Online lecture***
Prof Luciano Floridi, University of Oxford
- 4:00-5:00 pm break
- 5:00-6:30 pm ***Title TBC - Hybrid discussion panel***
Blaise Aguera y Arcas, Google Research Vice-President
Naila Murray, Meta AI research engineer
Moderated by Laura Carrer, independent investigative journalist,
Wired and info.nodes

DAY 2: EU REGULATIONS FOR A FAIR AND PRIVATE AI

- 10:00-11:30 am ***Ethics or law for AI? This is not the question*** - Lecture
Prof Giovanni Comandè, Scuola Superiore Sant'Anna
- 11:30-11:45 am break
- 11:45-1:00 pm ***You and your images*** - Lecture
Prof Andrea Cavallaro, Queen Mary University of London
- 1:00-2:30 pm Lunch
- 2:30-3:45 pm ***The EU AI Act*** - Lecture
Dimitris Tzanidakis, Policy Advisor, European Parliament
- 3:45-4:00 pm break
- 4:00-5:30 pm ***How will EU policies frame the work of an AI programmer?***
- Hybrid discussion panel
Brando Benifei, co-rapporteur of the AI Act, Member of the European Parliament
Kim Van Sparrentak, Member of the European Parliament, AIDA Committee
Diletta Huyskes, Head of Advocacy & Policy, Privacy Network and PhD Researcher, Università di Milano
Moderated by Viola Stefanello, tech reporter, Il Post

DAY 3: EXPLAINABLE AI (XAI)

- 10:00-11:30 am ***A gentle introduction to explainable AI - Lecture***
Prof Wojciech Samek, Technical University of Berlin
& Fraunhofer Heinrich Hertz Institute
- 11:30-12:00 am break
- 12:00-12:30 pm ***Explainable or Interpretable AI? Practical examples in the energy sector - Short talk***
Konstantinos Parginos, PhD student, MINES ParisTech
- 12:30-1:00 pm ***Using Explainability for Computer Vision Model Diagnosis: a Socio-Technical Perspective - Short talk***
Agathe Balayn, PhD candidate, TU Delft
- 1:00-2:30 pm Lunch (and group photo)
- 2:30-4:00 pm ***Practical introduction to XAI - Tutorial (part I)***
Prof Fosca Giannotti & Francesca Naretto, Scuola Normale Superiore
- 4:00-4:15 pm break
- 4:15-5:30 pm ***Practical introduction to XAI - Tutorial (part II)***
Prof Fosca Giannotti & Francesca Naretto, Scuola Normale Superiore

DAY 4: AI BIASES AND TRUSTWORTHINESS

- 10:00-11:15 am ***Addressing bias in big data and AI for health care - Online lecture***
Natalia Norori, Open Access advocate and epidemiologist
Prof Athina Tzovara, Univ. of Bern & Univ. of California Berkeley
- 11:15-11:30 am break
- 11:30-12:15 am ***Machine learning in the EU health care: ethical, legal and social issues - Online lecture***
Prof Iñigo de Miguel Beriain, University of the Basque Country
- 12:15-1:00 pm ***Auditing the quality of datasets used in algorithmic decision-making systems - Lecture***
TBC
- 1:00-2:30 pm Lunch
- 2:30-4:00 pm ***Trustworthy AI in healthcare: how to design, develop and deploy trustworthy deep learning for medical image analysis - Tutorial (part I)***
Dr Sara Moccia, Scuola Superiore Sant'Anna
Dr Simona Tiribelli, Institute for Technology and Global Health & Università degli Studi di Macerata
- 4:00-4:15 pm break
- 4:15-5:30 pm **Tutorial (part II)**

DAY 5: LIABILITY IN AI

- 10:00-11:15 am **Potential legal implications of breaking AI regulations in EU, US and China - Lecture**
Karin Tafur, legal-tech entrepreneur, TNP Consultants
- 11:15-11:30 am break
- 11:30-1:00 am **Moot court competition: an AI case study - Debate**
Gabriele Franco, junior associate, Panetta Law firm
- 1:00-2:00 pm Lunch
- 2:00-5:00 pm **Challenges and potential solutions - Group writing**
Write an extended abstract in groups of five participants on a topic of the spring school. This work will represent the test to award the ECTS to the participant and it will be employed to submit a joint opinion paper.
- 5:00-8:30 pm Free time
- 8:30-11:30 pm **Open Mic on AI - Movie discussion night**
Dr Federica Merenda, research fellow in Political Philosophy, Scuola Superiore Sant'Anna
Citizens in Pisa

HOW TO PARTICIPATE?

You can attend the school either online or on-site.

Online

By **clicking here and filling out the form**, a few days before the school you will receive a link to watch the activities online. Registration is free, with no selection process. During the school, your questions will always be welcomed, but remote attendance cannot guarantee that you will be able to ask them, as on-site questions will be answered first.

Active participation on-site

Seats are limited to 30 participants in total. The school targets early-career researchers (e.g. research assistants, PhD students, post-docs, exceptional master students) in AI or computational sciences. You can send your application by creating an account and uploading your documents on this webpage: <https://www.santannapisa.it/en/alta-formazione/eelisa-spring-school-ethos-tekhne-new-generation-ai-researchers>. For more information on the application material, please refer to Art. 8 B of the application Call. The **deadline** to upload your application material is **February 2nd, 2023, 11:59 pm (CET)**. If you are not selected, you can always attend the school online.

VENUE

Piazza dei Cavalieri, 7
Palazzo della Carovana, Scuola Normale Superiore
56126
Pisa
Italy

CONTACTS

International relations and EELISA

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Participant registrations

Jean-Baptiste Astruc

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Applications for on-site attendance

Prof Calogero Maria Oddo

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School programme

Stefano Vrizzi

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EELISA

ORGANISING TEAM

Raffaele Salvia	Logistics & movie night co-manager
Daniele Cavalli	Day 1 manager
Filippo Galli	Day 2 manager
Laura State	Day 3 manager
Konstantinos Parginos	Day 2 & 3 co-manager
Alberto Vergani	Day 4 manager & movie night co-manager
Giuseppe Parisi	Day 5 manager
Letizia Lamperti	Movie night co-manager
Viola Stefanello	Panel discussion manager
Stefano Vrizzi	Event ideator & team coordinator

SCIENTIFIC COMMITTEE

Lorenzo Bartalesi	Scuola Normale Superiore, Pisa, Italy
Sara Moccia	Scuola Superiore Sant'Anna, Pisa, Italy
Calogero Oddo	Scuola Superiore Sant'Anna, Pisa, Italy
Roberto Pellungrini	Scuola Normale Superiore, Pisa, Italy
Florian Yger	Paris Sciences et Lettres, Paris, France