Department of Information Engineering and Computer Science - a.a 2022/2023

Law and Ethics in Artificial Intelligence [145860]

Nessun partizionamento

Corso di studio Artificial Intelligence Systems
Ordinamento Artificial Intelligence Systems
Percorso standard

Docenti: CARLO CASONATO (Tit.), SIMONE PENASA
Numero ore: 48
Periodo: Primo Semestre
Crediti: 6
Settori: IUS/21

Obiettivi formativi e risultati di apprendimento attesi
The course is organized within Jean Monnet Chair T 4 F - TR-AI-NING 4 FUTURE. Artificial Intelligence and EU Law.
The Course aims at giving the students a basic knowledge of ethical and legal principles in AI. We will analyse existing principles and ask ourselves whether they may be suitable to regulate AI or whether it is necessary to develop new ones.
At the end of the course, students will have legal and interdisciplinary skills that can guide them in carrying out their professional activity in a constitution-oriented and human-centered way.
In particular, the student will:
- Know the main ethical and legal principles of AI;
- Use the acquired skills to analyse and understand the ethical dilemmas and legal problems related to the use of AI;
- Know the main legal sources of AI in some relevant areas, such as autonomous vehicles, medicine or justice;
- Be aware of the potential and risks of an increasingly widespread and autonomous use of AI;
- Understand the importance of a plural debate and interdisciplinary approach in the study of AI
- Be able to participate actively in working groups and discussions on law and ethics of AI.

Prerequisiti
Not applicable

Contenuti/programma del corso
  1. Introduction. Why an AI ethics and law course?
  2. Presentation and discussion of the basic elements of ethics
  3. Can the 4 principles of ethics (non-maleficence, beneficence, autonomy, justice) apply to AI (L. Floridi)?
  4. Presentation and discussion of the basic elements of law
  5. AI and constitutional principles (Italian, European and comparative law)
  6. Legal personhood of IA
  7. AI and liability (civil and criminal)
  8. AI and human rights
  9. The proposed European regulation: AI act.

  Depending on students' interests, the course may focus more on some of the aforementioned topics, also using specific case studies

Metodi didattici
The Course aims to enrich interdisciplinary knowledge through a constant and open debate on cutting-edge

ethical and legal issues. Accordingly, traditional lecturing and "Learning by Doing" will be integrated, in order to confront students with real cases. This teaching method will permit a more concrete and effective understanding of legal mechanisms and ethical principles. Students will be asked to actively participate in the discussion of concrete cases. A series of meetings will be indicated at the beginning of the course.

Metodi di accertamento e criteri di valutazione
Depending on the number of attending students and areas of interest, an oral or written exam may be complemented by the presentation and discussion of a paper written by students.

Testi di riferimento/Bibliografia
Teaching material will be provided during the Course on the corresponding digital platform (Didatticaonline). It will consist of ethical and legal issues and normative documents discussed during the Course and a reading list to be published on Didatticaonline. The European regulation proposal (AI act) will receive special attention.