

Intensive Course at FDUL

2025 November 24<sup>th</sup> – 28<sup>th</sup>  
16h00 – 18h00

Prof. Agata C. Amato Mangiameli

## **Syllabus**

### ***New Technologies, Law, Rights. From City Brain to Smart City***

1. Robotics, and Big Data
  - 1.1. Robots: various types, different structures, and different functions
  - 1.2. From hints of robotics to some recent applications
  - 1.3. Algorithms, and artificial intelligence
  - 1.4. The Revolution of Big Data
2. Generative AI, Conversional AI, Agentic AI
  - 2.1. From Classical Artificial Intelligence to Generative AI
  - 2.2. Chatbot, and Interfaces Brain-computer
  - 2.3. Follows: the experiment of Avital Meshi
  - 2.4. Agentic AI: some applications
3. AI and Smart City. Applications to improve Efficiency, Safety, and Sustainability
  - 3.1. Geospatial digital twin software
  - 3.2. Real-time monitoring Systems. Amplifiers of Human Capabilities
  - 3.3. City Brain – Smart City – Smart Land
4. The Black Box of Data: GDPR and AI Act
  - 4.1. From the European Regulation on the processing and free circulation of personal data
  - 4.2. The EU Artificial Intelligence Act: Perspectives and limits
5. About *Algorithm-Ethics*, and towards a Global Regulation
  - 5.1. The new world (deterritorialization, decentralization, dataveillance)
  - 5.2. And the ethical-legal principles (precaution, inclusiveness, accountability, reversibility, safety)