

Academic Programme

Summer School in Artificial Intelligence and Societal Challenges

Academic Director	Prof. Dr. Laurent Perrussel , UT Capitole
Instructors	Albert Fornells Herrera, PhD, RAMON LLULL Barcelona Filiberto E. Brozzetti, PhD, LUISS Rome Miguel Larrea Schindler, MLS, RAMON LLULL Barcelona Antitsa Kirilova Geneva, PhD, LLM, UNWE Sofia
Language of instruction	English
Course level	Undergraduate (60 ECTS minimum completed)
ECTS credits	3

Contents

“The New Role of Generative Artificial Intelligence in our Society”
Albert Fornells Herrera, Ramon Llull
<p>Topics addressed:</p> <ul style="list-style-type: none"> - Introduction to Artificial Intelligence - Introduction to Machine Learning: various topics including the deployment of a machine learning project - Introduction to Generative Artificial Intelligence - Current experiences in generative artificial intelligence: real world applications and case studies - Leveraging Generative Artificial Intelligence Tools

“The Cognitive Dilemma: Artificial Conscience and the Ethical Choice”
Filiberto E. Brozzetti, LUISS
<p>Topics addressed:</p> <ul style="list-style-type: none"> - Defining artificial intelligence - Investigating the concept of consciousness as the capacity for thought, imagination, volition, introspection: questioning the sentience and self-awareness of generative AI

- Machine morality: understanding if AI is capable of developing ethical code through a series of experiments.
- Algorithmic governability: predicative governance through Big Data, legislative perspectives on AI.
- Lethal Autonomous Weapons and International Humanitarian Law

“Navigating the Ethical Horizons of Artificial Intelligence”

Miguel Schindler, Ramon Llull

Topics addressed:

- Ethical dimensions of AI, including the historical perspective of AI development and a societal impact discussion
- AI in Healthcare: ethical considerations and case studies
- AI and warfare: strategy, autonomy, and ethics
- AI in Arts and Design: bridging creativity and technology
- AI for Ecological sustainability: synthesis and responsible deployment

“Intersection points between Intellectual Property Rights and Artificial Intelligence: Copyrights and Patents”

Antitsa Geneva, UNWE

Topics addressed:

- What are Intellectual Property Rights (IPRs)? Legal Framework – AI Regulation and IPRs
- Copyrights: discussion topic regarding AI Generated music
- Patents: justifications, conditions
- Protection of AI as computer programme
- Protection of AI under patent law
- Theory in practice lab: discussion on specific cases of interaction of AI and IPRs

Additional information

Format

- Blended intensive programme (BIP)
- Online kick-off session: June 10, 2024
- On-site interactive course: 17-28 June, 2024