Venue The Course will take place online

Certificate of Attendance At the end of the Course only participants who have attended at least 90% of the classe will receive a Certificate of Attendance and the Universit Credits acquired

Fees € 200,00 (two hundred euro). The cost includes tuitions and reference materials

Application and Registration Application is available at the following link https://www.santannapisa.it/it/formazione/corso-di-alta-formazione-industry-40-innovation-boot-camp

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The Boot Camp website
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Industry 4.0 Innovation Boot Camp

17-26 September 2020

www.eura.santannapisa.it/bootcamp

The Boot Camp is part of a three-year project that was awarded in the framework of the Call for proposals 2018 - EAC/A05/2017 under the Jean Monnet Activities of the Erasmus+ Programme – Jean Monnet Centre of Excellence on the Regulation of Robotics and Artificial Intelligence.

Aims

The course, at its second edition, aims at providing its students with a broad understanding of all implications of robotics that are going to be increasingly relevant in the legal, political and social debate over the coming years.

According to a study carried out by McKinsey, robotics and artificial intelligence (R&AI) may have an impact on the market greater than 4.5 trillion per year by 2025. Developing a leading industry in this field, therefore, is strategic: all the world's largest economies are heavily investing in its research. At the same time new technologies as biorobotics (bionic limbs, exoskeletons, brain machine interfaces) are going to deeply challenge our understanding of human life and human limits; others, as expert systems and AI, promise to reshape the labor market. Every aspect of our societies is going to be involved and changed: mere technological research is not sufficient to drive new technologies toward a human oriented progress.

Social scientists – lawyers, political scientists, economists – as well as engineers researching these technologies need to get together, addressing the relevant issues raised by new technologies. In order to do so, they need to acquire a new and open interdisciplinary approach involving law, economics, engineering and ethics together.

The purpose of the 6-day course is to offer the most advanced insight on R&AI regulation to legal practitioners, engineers, investors, entrepreneurs, business-people interested either in bringing R&AI products onto the market or in making use of R&AI solutions or industrial processes in their businesses, with a focus on Industry 4.0 themes.

The boot-camp course aims therefore at providing practical and immediately applicable knowledge, and will offer insight on a number of issues in a multidisciplinary perspective including:

(1) EU laws applicable to R&AI-enabled products interconnected with the human (e.g. assistive or implantable technologies)

(2) EU laws applicable to R&AI solutions for flexible and efficient production

(3) Current Issues on EU law on R&AI; IP Law; technology trends and assesment; AI data protection and data ethics; standards, product safety and liability.

The most relevant issues arising from either newly adopted regulations at EU and Member States level will be discussed, providing detailed and practical guidance on how that could impact businesses (e.g. GDPR on privacy-by-design, legislation on driverless vehicles and other technologies, reforms to the machine directive and other legislations currently under consideration at EU level applicable to R&AI).

Training objectives

The Course aims to:

> offer the most advanced insight on R&AI regulation,
> provide practical and immediately applicable knowledge using a multidisciplinary and functional-based methodology, focussing on: (i) EU laws applicable to R&AI-enabled products interconnected with the human (e.g. assistive or implantable technologies); (ii) EU laws applicable to R&AI solutions for flexible and efficient production; (iii) current Issues on EU law on R&AI,
> provide participants with the methodological and analytical skills necessary to: (i) identify issues of specific relevance for operators who intend to use or distribute R&AI applications in their activities, (ii) provide advanced solutions as well as practical and immediately applicable knowledge to the operators on these issues.

Organiser

The coordinator of the Boot-camp is Dr. Bertolini, Assistant Professor of Private Law at SSSA, and one of the leading experts in the regulation of robotics in Europe. Dr. Bertolini advised the European Parliament and Commission as well as the World Economic Forum and the OECD on multiple occasions, in particular on issues regarding the regulation of robotics, liability and risk management and product standardization. His research is widely covered by national and international press, including The Economist, The Times, The Guardian, BBC Radio, Wired, Motherboard, Robotic Business Review, Corriere della Sera, Sole 24 Ore, La Stampa, Quotidiano Nazionale, Quattroruote.

Teaching Body

The teaching body includes a broad range of professors of the Scuola Superiore Sant'Anna and of the Jean Monnet Centre of Excellence on the Regulation of Robotics and AI, coming from various fields such as law, engineering, philosophy, social robotics, management and innovation, providing an extremely interdisciplinary perspective. Most of the professors have actively participated in the Jean Monnet Module "Europe Regulates Robotics" and the previous RoboLaw project, funded by the European Commission (FP7), which developed the "Guidelines on Regulating Robotics" presented to the European Parliament and Commission in September 2014. Those guidelines triggered political debate and led to the establishment of a Commission of the European Parliament, currently discussing necessary legal reform and political action to ensure the development of a strong, yet responsible, European robotic industry, and manage the many ethical, social and economic issues that robotics brings about.

> Andrea Bertolini, Assistant Professor in Private Law, SSSA, Pisa, ITALY
> Lorella Bianchi, Legal Officer, Italian Data Protection Authority
> Domink Boesl, Vice President & Head of Robotic Futures at FESTO AG & Co. KG and Professor for Digital Sciences, Automation and Leadership at Hochschule der Bayerischen Wirtschaft, Munich, Germany
> Alberto Di Minin, Associate Professor in Management, SSSA, Pisa, Italy
> Luke McDonagh, Assistant Professor of Law, London School of Economics, UK
> Alessandro Nuvolari, Full Professor in Economic History, SSSA, Pisa, Italy
> Calogerio Maria Oddo, Post-Doctoral Fellow in Management, SSSA, Pisa, Italy
> Erica Palmerini, Associate Professor in Private Law, SSSA, Pisa, Italy
> Elsa Papadopoulou, Legal & Policy Officer, European Innovation Council
> Giuseppe Turchetti, Full Professor in Management, SSSA, Pisa, Italy
> more speakers to be announced soon