



# EUROPE REGULATES ROBOTICS

Pisa, 27<sup>th</sup>-28<sup>th</sup> September 2018\*



Sant'Anna  
School of Advanced Studies - Pisa



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**Scuola Superiore Sant'Anna, Aula Magna**

**Piazza Martiri della Libertà, 33**

**56127, Pisa, Italy**



Co-funded by the  
Erasmus+ Programme  
of the European Union



**Festival  
Internazionale  
della Robotica**

\*Final conference of the Jean Monnet Module "Europe Regulates Robotics", organized with the support of the Horizon 2020-Project INBOTS, the DIRPOLIS Institute of the Scuola Superiore Sant'Anna, and the University of Pisa, Department of Law – DETECT (Centro Interdipartimentale Diritto e Tecnologie di Frontiera), within the 2<sup>nd</sup> edition of the International Robotics Festival (Pisa 27<sup>th</sup> September – 3<sup>rd</sup> October), that won the 2017 medal of the President of the Italian Republic, with over 10.000 attendances.

## CONFERENCE DESCRIPTION

The Conference constitutes the final event of the **Jean Monnet Module “Europe Regulates Robotics”**, a three-year long project funded by the Erasmus+ Programme (EAC/A04/2014). The Module draws on the experience of **“Robolaw: Regulating Emerging Robotic Technologies in Europe: Robotics facing Law and Ethics”** (FP7-SCIENCE-IN-SOCIETY-2011-1), whose results were presented before the **European Parliament JURI Committee** on September 2014, sparking and inspiring the debate that led to the adoption of the **Recommendations to the Commission on Civil Law Rules on Robotics** (2015/2103(INL)).

Since 2015, **the Module** has primarily aimed to **foster an informed and multidisciplinary debate** around the regulation of robotics and AI and its implications in a **legal, ethical and economic perspective**, and to **form academics, policy-makers and professionals in the emerging field of robolaw**.

The Module pursued such goals through a number of **events involving prominent international experts** coming from fields such as law, engineering, political sciences, management, ethics, economics, ethology, and theology, and three editions of the **international summer school “The Regulation of Robotics in Europe”**, that saw the participation of students from some of the most prestigious European Universities, as well as professionals, and policy-makers.

**The principles and the methodology** adopted by the Jean Monnet Module **embody that “European approach to AI”**, which **aims at boosting the European technological and industrial capacity** and AI uptake across the economy, while **anticipating and addressing socio-economic changes**, and ensuring an **appropriate ethical and legal framework**, based on the Union's values, and in line with the Charter of Fundamental Rights of the EU<sup>1</sup>.

**The Conference intends to debate about the European Approach to AI and advanced robotics as it emerges from extant legislation, academic, and policy debates, and draw some conclusions on future challenges and perspectives.** To this end, it brings together experts from various fields, policy-makers and representatives from the industry, in a two-day event to be hosted by the Scuola Superiore Sant’Anna, in the beautiful setting of its main campus, a fourteenth-century Benedictine monastery located in the heart of Pisa historical centre.

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<sup>1</sup> European Union: European Commission, *Communication from the Commission to the European Parliament, the European Council, the Council, The European economic and Social committee and the Committee of the Regions: “Artificial Intelligence for Europe”*, 25 April 2018, SWD(2018) 137 final, available at: <https://ec.europa.eu/digital-single-market/en/news/communication-artificial-intelligence-europe> [accessed 7<sup>th</sup> June 2018].

## CONFERENCE PROGRAM

### DAY 1 – 27<sup>th</sup> September

**Registration and welcome 8:30-9:00**

**Opening Ceremony 9:00-9:45**

Andrea Bertolini, Alberto di Martino,  
Pierdomenico Perata

**A European Approach to Robotics and AI  
9:45-11:00**

Chair: Mario Mariniello  
Massimo Ippolito, Bjoern Juretzki  
Cecilia Laschi

**Coffee break 11:00 – 11:30**

**A European Approach to Liability  
11:30-13:00**

Chair: Emanuela Navarretta  
Andrea Bertolini, Ian Kerr,  
Ugo Pagallo, Angela Sanguinetti

**Lunch 13:00 – 14:00**

**A European Approach to Ethical Design  
14:00 – 15:30**

Chair: Gianluigi Palombella  
Massimo Bergamasco, Raja Chatila,  
Anne Gerdes, Viola Schiaffonati

**Coffee break 15:30 – 16:00**

**A European Approach to Standardization  
and Testing 16:00 – 17:00**

Chair: Fabio Bonsignorio  
Fabio Bonsignorio, Kees Stuurman, Bardo  
Schettini Gherardini, Gurvinder Virk

**Dinner (for speakers only) 20:00**

### DAY 2 – 28<sup>th</sup> September

**A European Approach to Data Protection  
9:00-10:30**

Chair: Alessandro Mantelero  
Valentina Calderai, Gianclaudio Malgieri  
Vagelis Papakonstantinou, Dianora Poletti

**Coffee Break 10:30-11:00**

**A European Approach to IP Law  
11:00 – 13:00**

Chair: Giovanni Sartor  
Enrico Bonadio, Luke McDonagh,  
Daniel Schönberger

**Lunch 13:00 – 14:00**

**Alternative Approaches to Regulation  
14:00 – 15:30**

Chair: Elettra Stradella  
Dominik Bösl, Erica Palmerini,  
Atsuo Takanishi, Irene Sardellitti

**Conclusions 15:30 – 16:00**

## SPEAKERS AND CHAIRS

**Massimo Bergamasco**

Professor of Applied Mechanics, Director of the TeCIP Institute, Scuola Superiore Sant'Anna

**Andrea Bertolini**

Assistant Professor of Private Law, DIRPOLIS Institute, Scuola Superiore Sant'Anna, Coordinator of the Jean Monnet Module "Europe Regulates Robotics"

**Enrico Bonadio**

Senior Lecturer in Law, The City Law School

**Fabio Bonsignorio**

Affiliate Professor, BioRobotics Institute, Scuola Superiore Sant'Anna, CEO and founder of Heron Robots

**Dominik Bösl**

Vice President Consumer Driven Robotics, Senior Corporate Innovation Manager, KUKA

**Valentina Calderai**

Associate Professor of Private Law, University of Pisa

**Raja Chatila**

Professor of Robotics, Artificial Intelligence and Ethics, Sorbonne University, Chair of IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems

**Alberto Di Martino**

Professor of Criminal Law, vice Director of DIRPOLIS Institute, Scuola Superiore Sant'Anna

**Anne Gerdes**

Associate Professor, Department of Design and Communication, University of Southern Denmark

**Massimo Ippolito**

Head of Digital Innovation & Infrastructures, Comau

**Bjoern Juretzki**

Assistant to the Director-General, European Commission, DG CONNECT

**Ian Kerr**

Professor and Canada Research Chair in Ethics, Law, and Technology, University of Ottawa

**Cecilia Laschi**

Professor of Biorobotics, BioRobotics Institute, Scuola Superiore Sant'Anna

**Gianclaudio Malgieri**

Doctoral Researcher at LSTS, Vrije Universiteit Brussel

**Alessandro Mantelero**

Associate Professor of Private Law, Politecnico di Torino, Rapporteur, Council of Europe

**Mario Mariniello**

Digital Adviser at the European Political Strategy Centre, European Commission

**Luke McDonagh**

Senior Lecturer, City Law School, University of London

**Emanuela Navarretta**

Professor of Private Law, Dean, Department of Law, University of Pisa

**Ugo Pagallo**

Professor of Jurisprudence, Department of Law, University of Turin, member of the Expert Group on Liability and New Technologies formation, New Technologies formation

**Erica Palmerini**

Associate Professor of Private Law, Scuola Superiore Sant'Anna

**Gianluigi Palombella**

Professor of Applied Legal Theory, Scuola Superiore Sant'Anna

**Vagelis Papakonstantinou**

Senior Researcher, Research Group on Law Science Technology & Society, Vrije Universiteit Brussel

**Pierdomenico Perata**

Professor of Plant Physiology, Rector of the Scuola Superiore Sant'Anna

**Dianora Poletti**

Professor of Private Law, University of Pisa

**Angela Sanguinetti**

Legal and Policy Officer, Contract Law Unit, DG Justice, European Commission

**Irene Sardellitti**

Programme Officer, Robotics and Artificial Intelligence, Digital Innovation Hubs, DG Connect, European Commission

**Giovanni Sartor**

Professor of Legal Theory and Legal Informatics, European University Institute and University of Bologna

**Bardo Schettini Gherardini**

Director Legal & Digital, KNOWENCE, and former Director of Legal Affairs at CEN and CENELEC

**Viola Schiaffonati**

Associate Professor of Logic and Philosophy of Science, Department of Electronic, Information and Bioengineering, Politecnico di Milano

**Daniel Schönberger**

Attorney at Law, Head of the Legal Department for Switzerland and Austria, Google

**Elettra Stradella**

Assistant Professor of Public Comparative Law, University of Pisa

**Kees Stuurman**

Professor of Information Technology Standards, Tilburg Institute for Law, Technology, and Society

**Atsuo Takanishi**

Professor, Department of Modern Mechanical Engineering & Humanoid Robotics Institute, Waseda University

**Gurvinder Singh Virk**

Professor of Robotics and the Built Environment, Department of Technology and Built Environment, University of Gävle

**Scientific coordinator**

Andrea Bertolini

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**Information and registration**

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