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## WORKSHOP

# REGULATION OF ARTIFICIAL INTELLIGENCE IN TRANSPORT, SUPPLY CHAIN MANAGEMENT AND LOGISTICS

**Matthias Klumpp** | FOM Essen, Fraunhofer IML, European University Institute

Sala Triaria

Villa Schifanoia, Via Boccaccio 121 - Florence

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## ■ INTRODUCTION

Regulation for technology developments in robotics and artificial intelligence are commonly seen as one of the important yet structurally neglected fields in research and political debate. This was highlighted in 2017 by the European Parliament report and a public consultation, indicating that a vast majority of citizens in Europe is regarding those developments as positive innovation fields but where further safeguards and regulations are needed (EP Resolution on Civil Law Rules on Robotics, 2015/2103(INL): Rapporteur Mady Delvaux). The workshop is directed at discussing the state of the art within the field of transportation, supply chain management and logistics as well as evaluating possible actions like regulation, agency- or industry-based approaches for establishing safeguards towards effective but risk-mitigating settings for this sector. This Florence School of Regulation Transport Workshop will bring together academics and sector experts to discuss in a round table format. Three moderated sessions will address the following crucial aspects:

1. State of the art of AI in transportation, SCM and logistics
2. The human factor
3. Future options

Besides the open discussion regarding this new topic in research and practice, exchange among participants is also aimed at cooperation discussions like

- possible joint research grant proposals (e.g. HORIZON 2020 or other international calls)
- a topical special issue of *Network Industries Quarterly* (6/2018, [LINK](#)) as contribution option
- a possible SI for an academic journal as a long-term publication option (e.g. JCRNI, IJL).

## ■ PROGRAMME

- 08.45 - 09.00 Welcome Coffee
- 09.00 - 09.15 Welcome & Introduction  
**Matthias Klumpp** | FOM Essen, Fraunhofer IML, European University Institute  
**David Kupfer** | European University Institute
- 09.15 - 10.45 **State of the art of AI and robotics in transportation, SCM and logistics**  
Chair:  
**Matthias Klumpp** | FOM Essen, Fraunhofer IML, European University Institute  
**Alberto Regattieri** | University of Bologna  
How AI and robotics help production and SCM today  
**Julian Sanders** | Bohnen Logistik  
Requirements of logistics service providers towards IoT and AI  
**Roberto Montemanni** | IDSIA  
Urban mobility - current and future challenges  
Round Table Discussion  
Graphic Reording by **Pierpaolo Barresi**
- 10.45 - 11.00 Coffee break
- 11.00 - 12.30 **The human factor - Fears, challenges and opportunities in human-AI collaboration**  
Chair:  
**Juan Montero** | UNED Madrid, European University Institute  
**James Tyllier** | Transformation UK & FutureDRV Project  
Truck driver training in Europe - An Introduction to FutureDRV  
**Caroline Ruiner** | Ruhr University Bochum  
Human motivation and AI collaboration  
**Dominic Loske** | Rewe Group  
How to prepare workers for logistics innovations today & tomorrow  
Round Table Discussion  
Graphic Reording by **Pierpaolo Barresi**
- 12.30 - 13.15 Lunch break
- 13.15 - 16.15 **Future options - How might we design cooperation between AI and humans?**  
*Design thinking workshop with active participation of all experts*  
Guide:  
**Marie Bittner** | Ruhr University Bochum
- 16.15 - 16.30 **Conclusion and Outlook**  
**Matthias Klumpp** | FOM Essen, Fraunhofer IML, European University Institute  
**Caroline Ruiner** | Ruhr University Bochum