



28th April – CEUP2030 Mid TermConference

AI Technologies in manufacturing landscape:

State of the art, trends and initiative supporting companies in AI uptake

Artificial intelligence is a game-changing technology for various industries. Looking at manufacturing sector, AI is strongly affecting companies' processes increasing productivity, efficiency, rapidity and ensuring higher customisation while reducing operational costs. AI technologies are also rapidly changing the way humans are working allowing them to focus on value added activities while ensuring higher safety, ergonomics and inclusivity but at the same time requiring new competences and knowledge.

Although benefits from AI adoptions are widely recognised, several manufacturing companies, in particular SMEs, are still far from the integration of AI technologies in their production processes. Culture and mindset, technological and skill gaps or unclear company strategy are some of the barriers that are hampering the access to these technologies.

Having this in mind, AFIL -Associazione Fabbrica Intelligente Lombardia, Consorzio Intellimech and Politecnico di Milano are organising a conference in order to discuss AI technologies state of the art as well as the related technological and market trend and provide an overview of European context, focusing in particular on the actions designed by the European Commission to support the adoption of AI technologies in manufacturing sector.

Then, starting from an analysis of Lombardy manufacturing ecosystem peculiarities, the event will offer the opportunities to discuss the main priorities and the barriers which have been identified by local stakeholders who have invested or are willing to invest in AI applications. Finally introducing two good practices from the Lombardy innovation ecosystem, the event will stress the importance of leveraging on **open innovation** and being involved in **virtuous cooperation networks** to ensure company competitiveness in such dynamic contexts.

Target audience:

The conference is targeting companies, in particular SMEs, with the aim to raise awareness on AI technologies and present the expected evolution of these technologies as well as the European and regional landscape where companies can find support in facing this transition.

Other stakeholders (i.e. research centers, universities, intermediaries and policy makers) will be also invited to the conference that will also offer them key learnings from the industrial experiences

Draft agenda

09.45 – 10.00 Welcome and introduction - **Andrea Frollà, moderator**

10.00 – 10.20 European Commission support to AI development in manufacturing
(Anne-Marie SASSEN - European Commission – DG CNECT, Digital Transformation of Industrial Ecosystems unit)

10.20 – 10.50 Artificial Intelligence: Technological and market trends

- Overview of WMF Report on AI (**Mark L. CASIDSID - World Manufacturing Forum**)
- National and Lombardy perspective (**Nicola GATTI – Osservatorio AI Politecnico di Milano**)

10.50 – 12.00 Lombardy Manufacturing sector toward AI: Peculiarities, priorities, and barriers

- **Giacomo Copani – AFIL**
- **Viviana D'Alto - Artificial Intelligence Software & Tools Research Platform Director | STMicroelectronics**
- **Diego Andreis – Managing Director | Fluid-o-Tech**
- **Giorgio Ascanelli – Chief Technical Officer | Brembo**
- **Gianluigi Viscardi – President | Consorzio Intellimech**
- **Technix - TBC**

12.00 – 12.20 Good practices from innovation ecosystem

- **WATCHMAN – The Lombardy hub for AI applied to machine vision (Fabio PREVIDI – Università degli Studi di Bergamo)**
- **AIREGIO – Regions and Digital Innovation Hubs alliance for AI-driven digital transformation of European Manufacturing SMEs (Sergio GUSMEROLI - Politecnico di Milano)**

12.20 – 12.30 Closure

*** Lunch Break ***

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14.00-16.00 Parallel session 1: Technical lab: Lombardy good practices for AI technologies uptake

14.00 – 14.15 Introduzione

14.15 – 14.45 Watchman – Use-cases of AI applied to machine vision

14.45 – 15.00 Joiint Lab: a new model for synergic AI development
(Francesca Negrello | Joiint Lab – RIS3 Champion)

15.00 – 15.15 Valtellina @Joiint lab: AI case study in telecommunication sector
(Luca Contato | V-Tech – RIS3 Champion)

15.15 – 15.30 AI solution applied to warehouse management – AIREGIO experiment
(Gualini – RIS3 Champion)

15.30 – 16.00 Discussion and closure

14.00-16.00 Parallel session 2: CEUP2030 Transnational Policy Learning Lab: Mutual learning on Regional strategies and policy toward 2030

During this PLL, Policy Maker from different Regions will share their experience and strategies to ensure the uptake of Advanced Manufacturing technologies and competences among their stakeholders, in particular they will provide an overview on:

- *How is your Region coordinating the innovation ecosystem and involving key stakeholders in the definition and execution of smart specialisation strategy?*
- *How is your Region approaching the EDIH initiative and which is the strategy defined to support regional stakeholders in this initiative?*
- *Provide an overview of future regional strategies and fundings and how they are meant to support the development of advanced manufacturing-related technologies in the region*
- *Have you defined a cross-regional collaboration strategy? In which cross-regional initiatives are you involved and how these are supporting the strategy*

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