

Forum

TERATEC

20 - 21 OCTOBRE 2026

PARIS · PALAIS DES CONGRÈS

Digital technology and AI: what are the challenges for education, research and industry?

Laurent CHAMPANEY – DG Arts et Métiers, France

Arts et Métiers

- Established 1780
- 6500 Student
- 11 engineering degrees (20% apprenticeship)
- 1 Bachelor, 15 Masters, 1 PhD, 12 MS
- Subsidary companies :
  - AMValor : collaborative research
  - AMTalents : life long learning and apprenticeship
  - FDIF : Corporate philanthropy fund

Arts et Métiers Institute of Technology

A unique network for training and research near the company needs



9 campus

3 instituts

2 autres sites

15 laboratoires

RABAT

Arts et Métiers

Arts ↔ Métiers

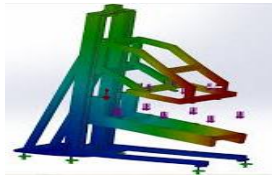
Sciences — Technology

$$x=L \quad w=0 \quad EI\frac{d^2w}{dx^2}+\alpha\frac{dw}{dx}=0$$

Model — Real world

Women
Men

Digitalization of models — Digitalization of real world



New practices, AI, Added value

1780



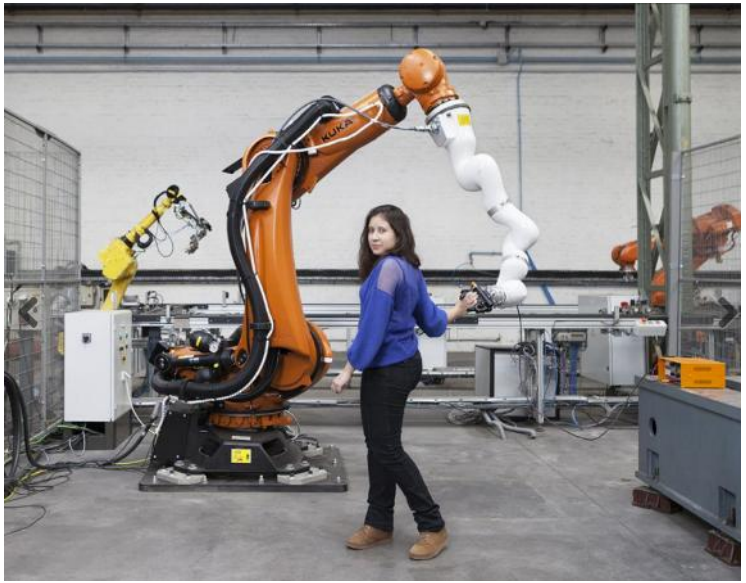
2020



Challenges in training

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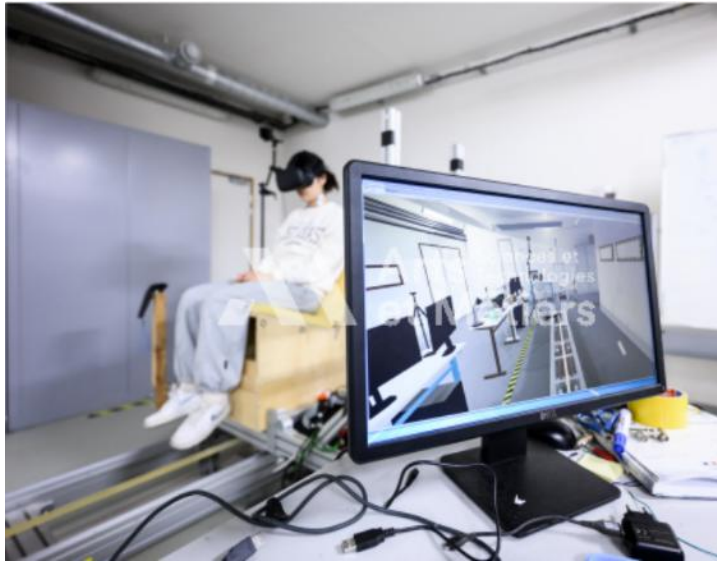
- Fast changing of student behaviors and needs
    - Fraud using AI…
    - Fast changing of AI tools capabilities
- Astonishment of some teachers :
    - need for training
    - ability to change one's methods ?
- Costs/impacts of digital infrastructures ?
- Ideas :
    - AI is an opprtunity
    - always using physical systems to confront AI results
    - authentic learning situations : augmented engineering



Challenges in research

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- Fast changing of researchers work
    - Astonishment of some reseachers
    - Ethics ?
- Use of trustable AI algorithms in innovatives solutions
- Costs/impacts of digital infrastructures ? Cybersecurity ?
- Arts et Métiers ideas :
    - AI is an opportunity, trustable data is valuable
    - Publication of datasets
    - Furgal AI : less data, less computation, more knowledge
        - More connection with training
    - Task Force AI for engineering



Challenges in industry

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- Fast changings in ways of working
- Training of leaders ? training of employees ?
- Trust in AI results ?
- Cybersecurity ?
- Sovereignty ?
- Costs/impacts of digital infrastructures ?
- Arts et métiers ideas :
    - Collaborations !



Partnership with TERATEC ?

Arts et Métiers / TERATEC answers :

- Training of leaders, training of employees
  - Building of specialized training courses
- Lifelong training / initial training
  - Industrial use cases in training of young engineers
- Share of datasets
- Diffusion of technologies
- Augmented engineering
- Collaborations !

Teratec

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