

French-German Institute for “Industry of the Future”



Université
franco-allemande
Deutsch-Französische
Hochschule

« Summer School »
16th – 19th October 2023
In Metz



Arts et Métiers
Institute of
Technology



**FRENCH
GERMAN
INSTITUTE**

FOR INDUSTRY
OF THE FUTURE



KIT Karlsruhe Institute
of Technology

« Summer school » in Autumn 2023

INVITATION TO FRENCH-GERMAN DOCTORAL SCHOOL ON QUALITY AND RISK MANAGEMENT

2023

FROM SEPTEMBER 25
TO OCTOBER 13

ON LINE

AND

FROM OCTOBER 16
TO OCTOBER 18

ON THE CAMPUS ARTS ET
MÉTIERS IN METZ



16 PLACES ARE AVAILABLE!

REGISTER BEFORE 10 SEPTEMBER

SIGN UP

Contact : wahb.zouhri@ensam.eu

HOW DOES IT WORK?

The autumn school will include 18 hours of lectures (on line)...

IA for manufacturing quality management

In the context of industry 4.0, platform digitalization has increased, and sensor technology has improved tremendously. The management and analysis of accumulated data from manufacturing and quality control has an immense potential to speed up time-to-market and optimize the manufacturing processes in terms of quality. This data management leads to process knowledge, process control and continuous improvement, which is treated using machine learning/ data-science/ IA techniques.

Decision analysis and risk management for innovation processes

Innovation is, by definition, fraught with uncertainty but we are cognitively ill-equipped to deal with it, as numerous biases tend to obfuscate our judgment. The good news is that there are tools that may help to alleviate this tendency to make errors! At the end of the course, the students should be able to make better decisions in their research endeavors, their future career and even their personal lives or, in other words, to better manage the future innovations that they will initiate.

... and three days of hackathon

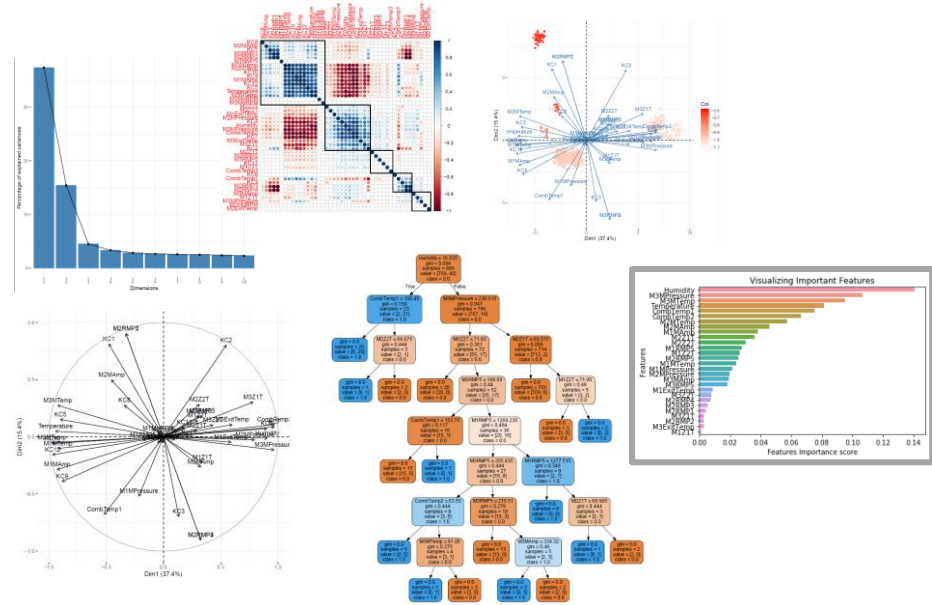
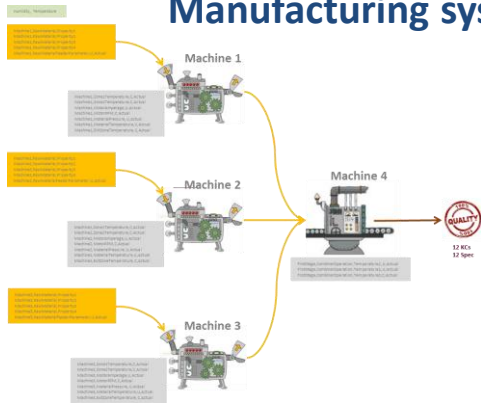
Quality improvement of a complex manufacturing system

The hackathon is organized around concrete industry problem structured as use cases. The Hackathon will group attendees. Experts will be embedded within each group.

Why & How to use data AI techniques for quality ...



Manufacturing system

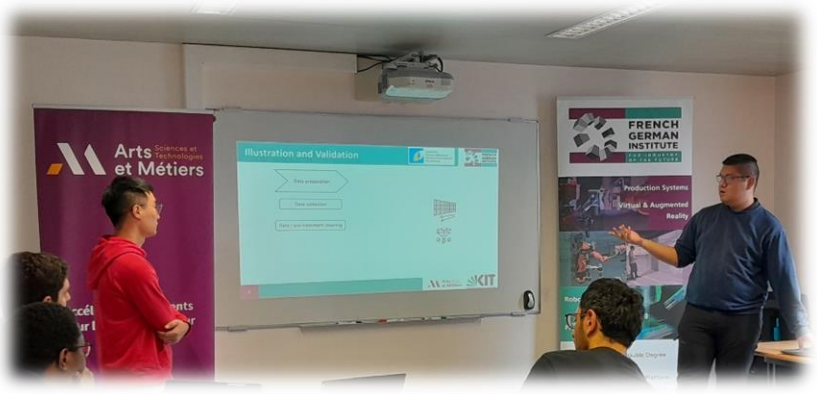


Deliverable: Guideline or framework to manage manufacturing quality and process control based on several AI techniques

Hackathon – Team effort



Hackathon defence





Many thanks

- ✓ **Université Franco Allemande**
- ✓ **KIT & Arts et Métiers**
- ✓ **Speakers:** Jelena PETRONIJEVIC, Marc LASSAGNE, Alain ETIENNE, Lazhar HOMRI, Wahb ZOUHRI
- ✓ **Administration:** Claire CIONI
- ✓ **Communication:** Laurine NASRAOUI, Maonon LAURENT
- ✓ **Badminton players & ...:** Ali SIADAT, Alexandre SAVA, Lazhar HOMRI, Paul STIEF, Wahb ZOUHRI, Jean-Yves DANTAN
- ✓ All members of Metz Campus
- ✓ **Participants for the pleasant exchanges**