



## **For a better integration of maintenance optimization issues in Production Management**

Nowadays, we are witnessing an explosion of interest in maintenance in the context of industrial optimization. This is reflected in a wide development of maintenance policies showing an ever-increasing efficiency with respect to the intrinsic performance of the system to be maintained. This efficiency is based, from our point of view, on two major factors: better detection, identification and, ultimately, prediction of the gradual behavior of failures through the analysis of the large amount of data available, and the supposed flexibility of decision-making environments, an assumption that is not always verified in many industrial contexts.

The objective of this session is to address the problem of integrating these new maintenance strategies into broader production optimization contexts, not restricted to maintenance optimization alone. More specifically, we will discuss the joint effects of maintenance with other industrial processes and its better integration in the different levels of decision making in production management, whether from a methodological point of view, modeling, or the use of new tools such as digital twins. It is clear that one of the challenges of this session is the identification and definition of the issues that must be addressed by research in this field.

Organizers :

- Prof. Bruno Castanier (Angers University, France)
- Prof. David Lemoine (IMT Atlantique, France)