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European Safety and Reliability Conference

[esrel2021.org](http://esrel2021.org)

**CALL FOR ABSTRACTS**

## **Special session on**

*Artificial intelligence for reliability assessment and maintenance decision-making*

### **Description**

In system engineering, reliability assessment and maintenance scheduling are two important issues to keep the system performance more cost-effectively. This special session focuses on the application of artificial intelligence, and in particular advanced machine learning techniques, in reliability assessment and maintenance decision-making. It will also include corresponding challenges to both industry and academia.

### **Motivation**

The fast development of computing capacity and advanced machine learning algorithms, along with the availability of huge amounts of data in near real time, has led to the expectation of a new paradigm in designing and performing maintenance.

### **Objective**

This special session addresses these emerging issues related to the use of artificial intelligence algorithms/approaches in reliability assessment and maintenance decision-making and gathering researchers and practitioners interested and engaged in these topics.

## Organizer

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