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European Safety and Reliability Conference

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

**CALL FOR ABSTRACTS**

**Special session on**  
***Degradation analysis and modelling for***  
***predictive maintenance***

**Description**

The aim of the session is to present papers on stochastic models of degradation and maintenance, and the statistical analysis of the corresponding data sets, with a view to performing predictive maintenance.

**Motivation**

In order to implement an efficient predictive maintenance strategy, a first step consists in proposing relevant models of degradation and lifetime of industrial systems, which take into account as best as possible all the factors (such as environmental conditions or maintenance effects) that impact the systems reliability. A second step is to develop statistical methods in order to analyze degradation and maintenance data sets. The last step is to derive a predictive maintenance strategy from the first two steps. The session aims to present examples of current research on these topics.

**Objective**

Bring together both academic and industrial researchers interested in theoretical developments and practical applications in this field.

**Organizer**

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