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European Safety and Reliability Conference

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

CALL FOR ABSTRACTS

**Special session on**  
***Advances in physical asset maintenance management***

**Description**

This special session has an objective to share the knowledge in both maintenance and asset management. It is intended to provide a platform for common understanding of the role and value provided by the maintenance function, especially in conditions of significant uncertainty occurrence in modern organizations.

**Motivation**

In the presence of ongoing global competition and increasing demands from stakeholders, all companies have begun to focus on achieving higher performances, i.e. higher quality of their products/services, lower costs, or sustainability control. To achieve these goals, effective and balanced management of physical assets becomes particularly important. This implies the necessity of proper performance of maintenance tasks, especially in the fields of setting pre-asset acquisition strategies for planning and initiating assets, asset operation and maintenance, performance monitoring, together with allied asset accounting and economics, or audit and renewal analysis.

**Objective**

This session aims to present the state-of-art of theoretical developments and applications in the area of physical asset management in various industry sectors. The key aspects of this special session are, among others:

- development of technical systems maintenance in conditions of significant uncertainty,

- assessment of organizations' maturity in maintenance management,
- promoting research for innovative approaches to decision support systems and multi-criteria decision making methods,
- development of assessment methods and presentation of their implementation,
- development of asset and risk management strategies,
- reliability and risk assessment in maintenance,
- resilience engineering.

### **Organizer**

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The validation of the special sessions will be done under the responsibility of the technical and scientific committee. Organizers are invited to provide a list of reviewers that may be supplemented by TC members to ensure consistency in the evaluation process.