

# Invited session **Risk Management and Performance Assessment**

## Organized by

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## Abstract

Almost ten years after the launching of "ISO31000:2009 - Risk management – Principles and guidelines" and its first revision "ante portas", risk management is a focal point for business and academia. Modelling, Optimization and Simulation are extensively used to aid risk management in the areas of project management, business continuity, enterprise risk management and safety systems. The ultimate goal is to provide the means for copying with uncertainty and increase performance. Therefore, performance assessment is an important area linked to risk management. In order to measure and analyse the impacts of risks on the performance of a system or a process, models and tools are needed to perform simulations and make appropriate actions to mitigate these risks. Optimization tools are also important when best solutions have to be identified and selected and most of the time such decisions are based on multiple criteria and need to take into account uncertainty.

This session focuses on innovative contributions including empirical research, conceptual papers or case studies in relation to the wide spectrum of risk management and performance assessment.

### List of topics

Standards for risk management Simulation for risk analysis **Risk management models** Sophisticated methods for identifying, analysing and treating risk. Knowledge management and modeling for risk management Optimization methods under risks / uncertainty Methods for performance assessment under risks / uncertainty

### **Keywords**

Risk management, risk identification, risk analysis, risk treatment, risk modeling, optimization under risk, performance assessment