

Invited sessions

Deadline: 15 mai 2020

Title

Risk Management and Performance Assessment

Organized by (names, affiliations and emails)

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Support (learned society, association, research group etc., optional)

Abstract

With the very recent revision of the risk management standard “ISO31000:2018 - Risk management – Principles and guidelines” risk management has become a focal point for business and academia. Modeling, 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 coping 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 and processes’ improvements 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.

Following the successful session “Risk Management and Performance Assessment” of MOSIM 2018, 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
Qualitative or quantitative methods for risk management

Keywords

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