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Addressing Risk in Engineering Asset Management

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Message from the Guest Editors

Dear Colleagues,

Engineered physical assets such as infrastructure, industrial facilities and buildings are the backbone of modern societies. Organizations dealing with these assets often operate with restricted budgets while having to satisfy performance requirements of various stakeholders under risky and uncertain environments. To face these challenges, asset management principles and techniques are being used to optimize life cycle decisions such as those related to short- and long-term investment planning, maintenance strategies, operational plans and asset disposal. These decisions seek the balancing of cost, risk and performance to assure that optimum value is being derived throughout the life cycle of the asset portfolio. In this regard and especially when there is the need to express in plain terms the societal impacts deriving from asset failures, several organizations are adopting asset risk management programs. The special issue seeks to explore how risk-based thinking can help push the boundaries of innovation to improve the life cycle management of engineered assets.

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Message from the Editor-in-Chief

The journal is devoted to academic researchers, working in the main fields of civil engineering, who want to spread their findings in the scientific community. Topics include: solid mechanics, structural and earthquake engineering, environmental and geotechnical engineering, survey and geo-spatial engineering, coastal and harbor engineering, building physics and sustainable materials, municipal or urban engineering, engineering and economy, and construction engineering. Contributions which are a good mixture of rigorous theoretical principles and experience-based technical solutions are especially welcome. Purely numerical or experimental approaches are also accepted, provided they are accompanied by a strong speculative investigation, finalized to extract a physical interpretation, and useful for enlarging the general knowledge of the problem.

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