Call for Papers
ASME Transactions, Journal of Mechanical Design
Special Issue on
Risk-Based and Robust Design

There is an ever increasing need to design mechanical and structural systems that are risk tolerant and robust. A risk tolerant design is one whose chance for adverse effects is below some threshold. A robust design is one whose performance and/or feasibility (or reliability) are insensitive to uncontrollable variations due to noise or uncertainty. Other definitions are also reported in the literature. This special issue will cover various related topics, including methods and models for risk-based and robust design. Examples of topics of interest include (but are not limited to):

- Risk modeling, assessment and management
- Risk-based and/or robust design and decision making
- Reliability- and possibility-based design
- Risk and robustness in multi-level and multi-disciplinary system design
- Meta-modeling techniques for risk-based and robust design
- Probabilistic and non-probabilistic methods for risk-based and robust design
- Verification and validation in risk-based and robust design

Prospective authors are invited to submit their original and previously unpublished papers for consideration in this special issue. Manuscripts must be submitted online to the Journal of Mechanical Design (JMD), with concurrent notice to the JMD Editor that the submittal is for the Special Issue on "Risk-Based and Robust Design". Please visit http://journaltool.asme.org for more details. Guidelines for manuscript styling and preparation are provided at the site. Submitted papers will undergo the standard review procedures of the ASME Journal of Mechanical Design.

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