



(web-page: <http://www.eng.nus.edu.sg/civil/REC2010/index.cfm>)

## Call for papers

The 4<sup>th</sup> International Workshop on Reliable Engineering Computing is hosted by National University of Singapore. Industry and Academia are invited to contribute and to join in the discussions on needs and developments in the field.

REC2010 is focused on robust design in the context of hazards, risk and uncertainty. Industry and academia are invited to contribute and to join in the discussions on needs and developments in the field.

This workshop is unique in combining computer science, mathematics, and engineering analysis and design to discuss the reliability of engineering computations, providing a common forum by which to continue cross-disciplinary advisements in the field.

Participants are expected to submit papers that will be published in the workshop proceedings and also will be available online from the workshop web site. After the workshop, selected papers will be published in a special issue(s) of a selected journal. The papers will go through the normal refereeing process.

Topics include but are not limited to:

- robust design, reliability-based design, performance-based design
- risk analysis, hazard analysis, risk and hazard mitigation
- management and processing of uncertainties

Herein, design is understood in a broad sense and may concern, e.g.:

- structures
- systems
- processes
- algorithms

Methods and theories may include, e.g.:

- traditional statistics and probability theory
- Bayesian theory
- imprecise probabilities
- evidence theory

- p-box approach
- fuzzy probability theory
- interval analysis
- fuzzy set theory
- convex modeling
- information gap theory

Contributions are invited with emphasis on both theory and applications.

**Deadlines:**

**July 01, 2009:** one page abstract submission

**July 15, 2009:** notification of acceptance

**November 01, 2009:** paper submission