

# TOPICS

The Conference will be concerned with the following preliminary topics:

- Aerospace Engineering; Biomechanics;
- Characterization of Materials with Random Properties;
- Earthquake, Off-shore, Wind Engineering
- Engineering Seismology;
- Geotechnical Engineering and Geomechanics;
- Imprecise probability
- Linear and Nonlinear Stochastic Dynamics;
- Methods to treat structural uncertainties
- Monte Carlo Simulation Techniques;
- Multi-Objective Optimization Under Uncertainty;
- Nonprobabilistic methods in static and dynamics of structures with uncertainties
- Random Processes and Fields: Theory, Analysis and Simulation;
- Random Vibrations
- Reliability Analysis;
- Reliability-Based Optimal Design;
- Risk analysis
- Stochastic Differential Equations;
- Stochastic Finite Element Methods;
- Structural Health Monitoring through Probabilistic Theory