Call for Papers: Special Issue

**ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems:**
Part A. Civil Engineering
Part B. Mechanical Engineering

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**Special Topic**

*Stochastic and nonlinear dynamics in complex systems.*

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**Background**

With the development of science and technique, complex systems have gained increasing interests in many areas, such as geophysics, seismology, civil engineering, mechanical engineering, economics and finance, physics, and so on. The properties of complex systems may be of one of the two forms: disorganized complexity and organized complexity. The study of complex systems derives from statistical physics, information theory and nonlinear dynamics in order to represent organized but unpredictable behaviors of systems.

**Scope**

The scope of this special issue is to exhibit some of the recent scientific research and technical innovation on complex systems. From the view of methodologies, the study of complex systems from various fields will help to investigate and understand the complexity of engineering problems.

**Selected Focus Topics**

The topics include but are not limited to: Statistical methods, Stochastic mechanics, Equilibrium and Non-Equilibrium Statistical Mechanics, Nonlinear dynamics methods, Nonlinear time series analysis methods, Theory of chaos and fractals, Self-Organization Criticality and Phase Transition Theory, Dynamical Behavior of Complex System, Seismological research, Macroeconomic analysis, and Financial analysis.

**Paper Submission**

To submit a manuscript for consideration for the special issue, please visit the journal website at:

http://bit.ly/1fJtQCe

Select the Special Issue option for “Stochastic and nonlinear dynamics in complex systems”.

**Timeline**

Deadline for Submission: April 30, 2014

**Resources for Authors**

Civil Engineering (ASCE) [http://bit.ly/1fjV7sS](http://bit.ly/1fjV7sS)

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